



Application Procedures for Grants-in-Aid for Scientific Research-KAKENHI-

FY2013

Research Activity Start-up

March 1, 2013

Japan Society for the Promotion of Science
(<http://www.jsps.go.jp/>)

Introduction

The current round of call for proposals lists the necessary procedures and other matters for the Details of the Call for Proposals or Application of the Grants-in-Aid for Scientific Research-KAKENHI- for FY2013 “Research Activity Start-up”

It consists of:

- I Outline of the Grants-in-Aid for Scientific Research**
- II Details of the Call for Proposals**
- III Instructions & Procedures for those Intending to Apply**
- IV Instructions & Procedures for those Who Have Already Been Accepted**
- V Instructions & Procedures for Staff of the Research Institution**

Among these, are listed in the “II Details of the Call for Proposals”: Eligible Candidates for the Research Categories for which a Call for Proposals is Organized; Total budget provided and Research period and other matters; and Schedule from Application to Receipt of Funding and other issues.

In addition, in “III Instructions & Procedures for those Intending to Apply”, “IV Instructions & Procedures for those Who Have Already Been Accepted” and “V Instructions & Procedures for Staff of the Research Institution” are listed: “Conditions for Applying”, “Necessary Procedures”, and other matters, for those who are eligible to apply. Individuals to whom it may concern are requested to make sure that they verify the relevant parts of the text.

Moreover, the major changes for FY2013 are as follows.

<The major changes for FY2013>

- The “List of Categories, Areas, Disciplines and Research Fields” has been revised.**

Since FY2003 major revisions have been made to the “List of Categories, Areas, Disciplines and Research Fields”.

When making these revisions, deliberations were conducted at the Research Grant Screening Section of the Section Meeting for Science of the Academic Deliberation Council for Science and Technology of the Ministry of Education, Culture, Sports, Science and Technology (MEXT), and based on these deliberations, decisions concerning the revisions were made.

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The Supplementary Volume has the following contents. Please use it for reference.

Supplementary Volume

Application Procedures for Grants-in-Aid for Scientific Research-KAKENHI- for FY2013 (Research Activity Start-up) (Application Forms and Data Entry)

○Proposal for grant-in-aid

First Half, application information (Items to be filled in on the form on the website)

Application information (Items to be filled in on the form on the website) (Research Activity Start-up)Preparation and data entry of application information

Application information (Items to be filled in on the form on the website) (screenshot)

Second Half, Files with Project Description (procedures for preparation and data entry of proposal for grant-in-aid, and form for proposal for grant-in-aid)

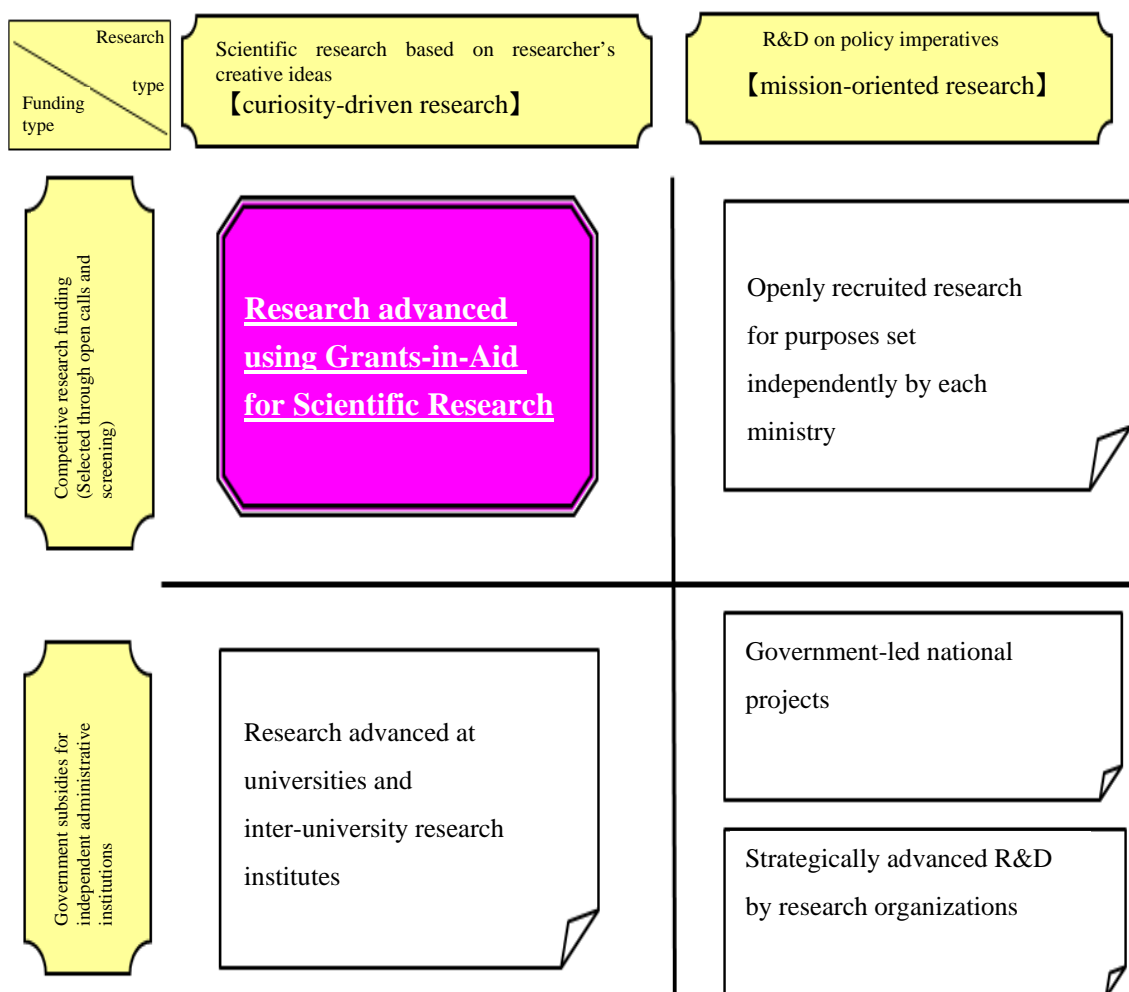
Form S-1-17: Proposal for grant-in-aid “Research Activity Start-up” (new)

I. Outline of the Grants-in-Aid for Scientific Research - KAKENHI

1. Purpose and Character of Grants-in-Aid for Scientific Research - KAKENHI

Grants-in-Aid for Scientific Research are competitive funds that are intended to significantly develop all scientific research (research based on the free ideas of the researcher), from basic to applied research in all fields, ranging from the humanities and the social sciences to the natural sciences. The grants provide financial support for creative and pioneering research projects that will become the foundation of social development. The research projects are selected using a peer-review screening process (screening by multiple researchers whose field of specialization is close to that of the applicant).

The position of “KAKENHI” in the policy on the promotion of science, technology and scientific research in Japan

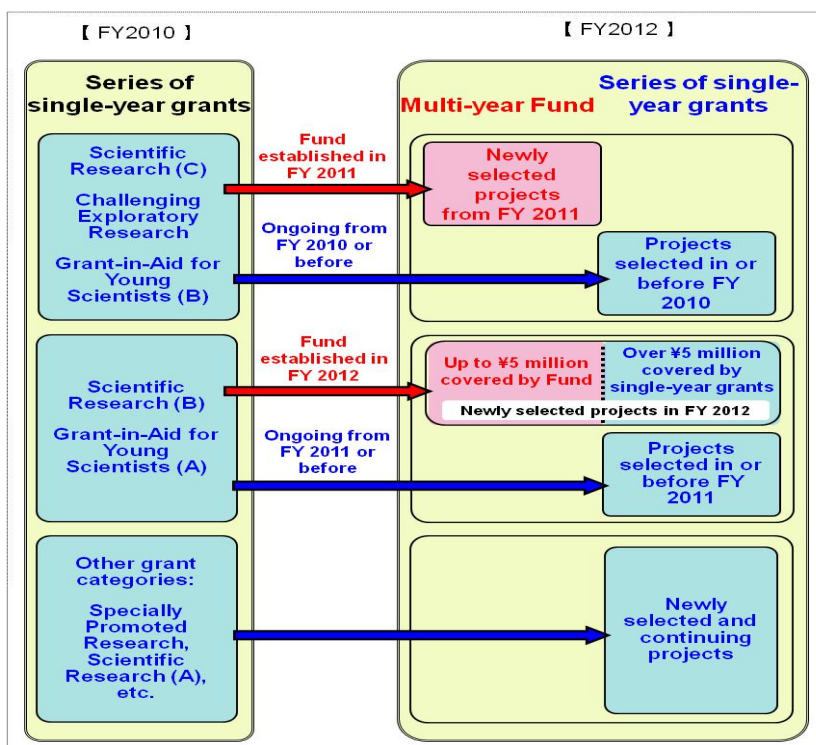


2. On the Establishment of a Fund System for the KAKENHI

From FY2011 on, for a part of the KAKENHI research categories, the “KAKENHI Multi-year Fund” has been established by JSPS. This “KAKENHI Multi-year Fund” is funded with subsidies provided by the Ministry of Education, Culture, Sports, Science and Technology (MEXT). In this way, an institutional reform entailing the “establishment of a fund system” in order to promote KAKENHI Multi-year Fund Scientific Research Grants has started. In addition to “Scientific Research (C)”, “Challenging Exploratory Research” and “Grant-in-Aid for Young Scientists (B)”, for which a reform of the multi-year KAKENHI (the establishment of a fund system) was implemented in FY2011, the establishment of a fund system for newly adopted “Scientific Research (B)” and “Grant-in-Aid for Young Scientists (A)” has been newly introduced in FY2012. (Up to 5 million yen of the total research budget is funded from the fund system.) Through the establishment of a fund system, it has become possible after the adoption of a research project to use research funding ahead of schedule by modifying the original research plan, or to use research funding in the subsequent fiscal year without prior procedures, depending on the progress of the research. Moreover, it has become possible, among other things, to procure goods across fiscal years, when implementing the research funding.

Furthermore, from FY2011 on “Multi-year Fund Scientific Research Grants” (hereinafter called “KAKENHI (Multi-year Fund)”) and the hitherto known Grants-in-Aid for Scientific Research (hereinafter called “KAKENHI (Series of Single-year Grants)”) will be implemented together as “Grants-in-Aid for Scientific Research”. All these grants will be called “KAKENHI”. As for these new “KAKENHI”, the previous purpose and character of the old type of “Grants-in-Aid for Scientific Research” does not change.

Image of Grants-in-Aid System



3. Research Categories

Depending on the content and the scale of the research, different research categories have been established.

Research categories, etc.	Purposes and description of the research category
Grants-in-Aid for Scientific Research	
Grant-in-Aid for Specially Promoted Research	Highly regarded research in the international arena that is likely to yield highly acclaimed research achievements (The period is three to five years. As a general indicator, the upper limit of the total budget provided is set around 500 million yen per research project. However, no upper and lower limits have been established.)
Scientific Research on Priority Areas ※	Research fields that will lead to the upgrading and enhancement of scientific research in Japan; research fields that require effort on a global scale; and/or research fields that have particularly strong social demand will be specified. The objective is to flexibly and effectively plan the promotion of research. (The period is three to six year. In principle, the budget is set at around 20 million to 600 million yen per fiscal year per field.)
Scientific Research on Innovative Areas ※	(Research in a proposed research area) New research areas that will lead to the upgrading and enhancement of scientific research in Japan. The new research areas are proposed by one researcher or by a group of researchers, and will develop through the effort to cultivate collective research, research personnel, etc. (The period is five years. In principle, the budget is set at around 10 million to 300 million yen per fiscal year per field.)

	(Research under a proposed research project) Innovative and challenging research that is very likely to lead to a breakthrough in academic research by the development of the research project in question. The funding is not restricted to research projects that are expected to yield certain and tangible research achievements. (The period is three years. The budget is 10 million yen per fiscal year.)
Scientific Research	(S) Creative/pioneering research done by one researcher or a relatively small group of researchers (The period is five years. The budget ranges from 50 million yen to around 200 million yen per project.) (A)(B)(C) Creative/pioneering research done by one researcher or jointly by multiple researchers (The period is three to five years.) (A) From 20 million to 50 million yen (Classified in A, B or C, depending on the total budget provided) ◎(B) From 5 million yen to 20 million yen ★(C) 5 million yen or less
Challenging Exploratory Research	Early-stage research that is based on a unique concept, that is challenging, and that sets a high goal (The period is one to three years. The budget is up to 5 million yen per project.) ★
Grant-in-Aid for Young Scientists	(S) Research done by one researcher aged 42 or less (The period is five years. The budget ranges roughly from 30 million yen to 100 million yen per project.) (A)(B) Research done by one researcher aged 39 or less (The period is two to four years. Classified in A or B, depending on the total budget provided.) ◎(A) from 5 million yen to 30 million yen ★(B) 5 million yen or less
Grant-in-Aid for Research Activity Start-up	Research done by one researcher who has just been employed by the research institution, by one researcher who returns from childcare leave or other kinds of leave, or other researchers. (The period is up to two years. The budget is up to 1.5 million per fiscal year.)
Encouragement of Scientists	Research done by one person who is an employee of an educational/research institution, a company employee, or others
Grant-in-Aid for Special Purposes ※	Funding of urgent and important research projects.
Grant-in-Aid for Publication of Scientific Research Results	
Publication of Research Results ※	Funding for publication or international dissemination of research achievements of a scientific society with high academic value
Strengthening international dissemination of information	Support efforts to further strengthen the dissemination of information so as to contribute to international scientific exchange by Japanese scientific organizations
Scientific Periodicals	Funding of academic journals that are periodically published by a scientific society, an association constituting a cooperative framework of a number of scientific societies, or other bodies, in order to contribute to international academic exchange
Scientific Literature	Funding of Scientific Literature issued by an individual or a group of researchers to disclose scientific research achievements
Databases	Funding of databases created by an individual or a group of researchers for public availability
Grant-in-Aid for JSPS Fellows	Funding of research done by JSPS Fellows, including Foreign JSPS Fellows (for a period of up to three years)

Note 1 The Ministry of Education, Culture, Sports, Science and Technology (MEXT) will conduct the screening of and provide funding for research categories marked with the sign ※.

Note 2 No new invitation for applications is conducted for “New Innovative Research Areas” of

“Scientific Research on Priority Areas”, “Scientific Research on Innovative Areas (Research under a proposed research project)” and “Grant-in-Aid for Young Scientists (S)”.

Note 3 Among the research categories marked with the sign ★ (Scientific Research (C), Challenging Exploratory Research and Grant-in-Aid for Young Scientists (B)), research projects that are newly adopted in FY2011 or later will be implemented using KAKENHI (Multi-year Fund).

Note 4 Among the research categories marked with the sign ◎ (Scientific Research (B) and Grant-in-Aid for Young Scientists (A)), research projects that are newly adopted in FY2012 (hereinafter called “KAKENHI (Partial Multi-year Fund)”) will be implemented using KAKENHI (Multi-year Fund) (up to 5 million yen out of the total research budget).

4. The Relationship between MEXT and JSPS

The Ministry of Education (currently, the Ministry of Education, Culture, Sports, Science and Technology) publicly recruited, screened applications and delivered grants in all of the research categories up to FY1998. From FY1999 on, these tasks were transferred to the Japan Society for the Promotion of Science (JSPS). The call for proposals, screening and funding are currently being conducted as indicated below.

Research category	Call for proposals, screening and funding
Scientific Research on Priority Areas, Scientific Research on Innovative Areas, Grant-in-Aid for Special Purposes, Grant-in-Aid for Publication of Scientific Research Results (Publication of Scientific Research Results (B/C))	<p>Main body in the preparation of the procedures for lodging applications and the location where the applications should be submitted. Main body handling the criteria for selection, notice of the decision, and the location where the application forms for grants and the various other necessary documents should be submitted</p> <p style="text-align: center;">MEXT</p>
Specially Promoted Research Scientific Research, Challenging Exploratory Research, Grant-in-Aid for Young Scientists, Grant-in-Aid for Research Activity Start-up, Encouragement of Scientists, Grant-in-Aid for Publication of Scientific Research Results (Scientific Periodicals, Strengthening International dissemination of information, Scientific Literature and Databases), Grant-in-Aid for JSPS Fellows	<p style="text-align: center;">JSPS</p>

❖ As of March 2013

5. Rules Relating to KAKENHI

KAKENHI (Series of Single-year Grants) are governed by the Law on Optimizing Implementation of Budgets Relating to Subsidies (Law No. 179, 1955), Procedures on the Handling of Grants-in-Aid for Scientific Research (Announcement of the MEXT), Procedures on the Handling of JSPS Grants-in-Aid for Scientific Research (KAKENHI (Series of Single-year Grants)) (Regulations No. 17, 2003), and Others.

The KAKENHI (Multi-year Fund) are governed by the “Basic Policy on the Management of the KAKENHI (Multi-year Fund)”, Procedures on the Handling of JSPS Grants-in-Aid for Scientific Research (KAKENHI (Multi-year Fund)) (Rule No. 19, 2011) and others.

The KAKENHI (Partial Multi-year Fund) are governed by the Law on Optimizing Implementation of Budgets Relating to Subsidies (Law No. 179, 1955), Procedures on the Handling of Grants-in-Aid for Scientific Research (Announcement of the MEXT), the “Basic Policy on the Management of the KAKENHI (Multi-year Fund)”, Procedures on the Handling of JSPS Grants-in-Aid for Scientific Research (KAKENHI (Series of Single-year Grants)) (Regulations No. 17, 2003), Procedures on the Handling of JSPS Grants-in-Aid for Scientific Research (KAKENHI (Multi-year Fund)) (Rule No. 19, 2011) and others.

(1) Three types of rules for KAKENHI

There are three types of rules for KAKENHI, as follows:

- 1) Application rules: rules concerning the applications
- 2) Assessment rules: rules concerning the preliminary assessment (screening), the interim assessment, the ex-post assessment, and the research project progress assessment
- 3) Utilization rules: rules concerning the use of KAKENHI

Moreover, these three sets of rules apply as follows, depending on whether the funding is granted by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) or by the Japan Society for the Promotion of Science (JSPS).

		Application rules	Assessment rules	Utilization rules
Funding Granted by MEXT	KAKENHI (Series of Single-year Grants)	MEXT Procedures on the call for proposals	MEXT Rules concerning the assessment for Grants-in-Aid for Scientific Research Screening Outline for Grants-in-Aid for Scientific Research, category “Scientific Research on Innovative Areas” Assessment Outline for Grants-in-Aid for Scientific Research, category “Scientific Research on Innovative Areas”	MEXT For researchers: Supplementary conditions For research institutions: Administrative work and other tasks concerning the use of Grants-in-Aid for Scientific Research (KAKENHI (Series of Single-year Grants)), to be performed by each research institution
	KAKENHI (Series of Single-year Grants)	JSPS Procedures on the call for proposals	JSPS Rules concerning the screening and assessment for Grants-in-Aid for Scientific Research	JSPS For researchers: Supplementary conditions For research institutions: Administrative work and other tasks concerning the use of Grants-in-Aid for Scientific Research (KAKENHI (Series of Single-year Grants)), to be performed by each research institution
	KAKENHI (Multi-year Fund)			JSPS For researchers: Funding conditions For research institutions: Administrative work and other tasks concerning the use of Grants-in-Aid for Scientific Research (KAKENHI (Multi-year Fund)), to be performed by each research institution
KAKENHI (Partial Multi-year Fund)	JSPS For researchers: Funding conditions For research institutions: Administrative work and other tasks concerning the use of Grants-in-Aid for Scientific Research (new research projects of Scientific Research (B) and Grant-in-Aid for Young Scientists (A)), to be performed by each research institution			

(2) Appropriate use of KAKENHI

KAKENHI are funded by the tax of citizens and other sources. Researchers receiving KAKENHI have a duty to comply with the related laws, regulations and utilization rules by researchers (subsidiary conditions or funding conditions), and also to use such grants appropriately. To ensure recipients comply with this requirement, we check whether no inappropriate use of KAKENHI will be made, when an application is made. (See note below.)

To facilitate the appropriate use of KAKENHI, research institutions to which the researchers belong are responsible for the management of the KAKENHI. The Administrative work that each research institution is required to carry out (rules for use for institutions) is determined.

Among other things, the research institution has the duty to secure the appropriate use of KAKENHI, for example, by setting up a system for the management and audit of the budget, and, for the expenditure of expenses for goods, by properly implementing inspections of delivered goods. In order to prevent fraudulent accounting through fictitious business transactions (so-called “azukekin”), it is important, in addition to appropriate inspection of delivered goods, to widely inform traders about the rules and to obtain the understanding and cooperation of traders in the prevention of this kind of fraudulent accounting. Researchers need to strictly respond to traders who have been involved in fraudulent accounting through fictitious business transactions, for example by stopping doing business with such traders.

Researchers and persons in charge in the research institution should fully understand prior to the application that these rules will apply after the application is approved.

(3) Important points on the use of KAKENHI

For KAKENHI (Series of Single-year Grants) a package plan throughout the research period should be prepared and submitted upon application. However, after the research project is adopted, it will be handled as a project which is funded for each fiscal year during the research period in question. For example, KAKENHI (Series of Single-year Grants) cannot be used to pay costs in a fiscal year which falls outside the fiscal year(s) in which the funded project should be carried out.

Moreover, when it can be expected that the funded project will remain unfinished within the fiscal year, due to reasons beyond the control of the applicant(s), which could not be foreseen at the time it was decided to grant the funding, the costs in question can be carried over to the next fiscal year, provided that a request for approval for the carry-over is submitted to the Finance Minister through the Minister of Education, Culture, Sports, Science and Technology (MEXT), and the approval from the Finance Minister is obtained.

For KAKENHI (Multi-year Fund), the research activity after the adoption of the grant will be handled as a single funded project throughout the whole research period. Therefore, it is possible to use the grant for paying costs in a fiscal year that is different from the fiscal year of receipt of the grant, if this happens within the research period.

Moreover, if within the research period an amount of money remains unused by the end of each fiscal year, except for the final fiscal year, costs can be carried over to the next fiscal year, without researchers having to go through prior authorization procedures. In addition, if an amount of money remains unused by the end of the final fiscal year, costs can be carried over to the next fiscal year, by obtaining prior approval for extension of the research period.

For KAKENHI (Partial Multi-year Fund), a package plan throughout the research period should be prepared and submitted upon application. However, after the research project is adopted, the period of the funded project consists of one single fiscal year for non-fund based grants, and multiple fiscal years for fund based grants. Based on this, researchers should appropriately conduct their funded project. Moreover, basically non-fund based grants follow the handling of KAKENHI (Series of Single-year Grants), and fund based grants follow the handling of KAKENHI (Multi-year Fund).

- (4) The handling of a case in which the report on the research achievements has not been submitted
- 1) The report on the research achievements plays the important role of making the achievements of the research funded with a KAKENHI widely known to the citizens. It is an important tool in order to widely return the achievements of the research funded with a KAKENHI, which in turn has the tax of citizens and other sources as its resources, to society.

Therefore, researchers should submit the report on the research achievements at the end of the research. The content of the research will be widely disclosed to the public via Database (KAKEN) of the National Institute of Informatics and other tools. Moreover, the research institution to which the researchers belong has to collect and submit the reports on the research achievements.

- 2) No funding of KAKENHI will be conducted for researchers who do not submit the report on the research achievements at the end of the research, without any reason. Moreover, it may happen that the decision to KAKENHI to the researcher in question is cancelled, or that an order to return the grant is issued. It may also happen that information, such as the name of the research institution to which the researcher in question belongs and other data, is made public.

Furthermore, if researchers have failed, without good reason, to submit the scheduled report on the research achievements, then implementation of other KAKENHI due to be implemented in the same fiscal year will be suspended. Therefore, it is the responsibility of the representative of the research institution to ensure that the report on the research achievements is submitted without fail.

(5) Treatment in case of infringement of related laws

When a research project has been implemented, by violating related laws, guidelines, etc., for example when the content which is entered in the application documents is false, it is possible that the provision of KAKENHI is not carried out or cancelled.

(Note) Examples of recent fraudulent use, fraudulent receiving of grants or fraudulent acts committed during the research.

○ Fraudulent use

- Someone instructed a trader to complete a fictitious transaction, pretended to have purchased consumables, had KAKENHI expended by the university, and then had it managed as money deposited to the trader.
- Someone instructed a trader to complete a fictitious transaction, had a false invoice issued on which the name of a good that is different from the good that had actually been purchased and delivered was stated, and then had KAKENHI expended by the university.
- Someone had a work attendance sheet for work that was actually not carried out drawn up for a graduate student, charged the payment of remuneration, and then managed the money himself, as a pooled fund.
- Someone stayed in a destination different from the scheduled travel plan, in order to have a meeting on collective research unrelated to the purpose of the research project, and then put the costs under travel expenses associated with overseas travel.

(Note) The expenditure of KAKENHI for fictitious and other transactions, like the ones mentioned in the examples, are all considered fraudulent use, even if the expenditure of KAKENHI was intended for the research project related to the Grant-in-Aid for Scientific Research in question.

○ Fraudulent receiving of grants

- A researcher who was not eligible to apply or receive grants applied for a KAKENHI and for funding of it, and then fraudulently received the subsidy.

○ Fraudulent acts committed during the research

- Someone manipulated or forged experimental data or a chart in a research paper published as the achievements of research funded with a KAKENHI.
- Someone translated an original English-language research paper without obtaining prior consent from the author(s), incorporated this translation into a book or report on the research achievements published as the achievements of research funded with a KAKENHI, and made it public as the research achievements of the research project in question, without clearly mentioning that it was being quoted.

6. Guidelines on the Proper Implementation of Competitive Funding

The “Guidelines on the Proper Implementation of Competitive Funding” (agreement of the liaison meeting of related offices and ministries on competitive funding, dated September 9, 2005) agree on the rules in the field of competitive funding on the elimination of unreasonable reduplication and excessive concentration, fraudulent receiving, of grants, fraudulent use and research-related fraudulent acts in research papers, and other matters in the related offices and ministries.

During the implementation of the competitive funding, including KAKENHI, these matters will be dealt with appropriately, based on these Guidelines. Therefore, the applicant should consider carefully the following points.

(1) Eliminate Unreasonable Reduplication and Excessive Concentration

- 1) In order to avoid “Unreasonable Reduplication or Excessive Concentration” (*) of competitive funds, we may, to the extent necessary, share information on a part of the project description of the application between other divisions in charge of competitive funds, including other offices and ministries, independent administrative legal entities, etc, making use of the Cross-ministerial Research and Development management system (e-Rad).

Therefore, in the case of an application for more than one competitive funding (including in the case of an application for more than one Research Categories for KAKENHI), and other matters, the applicant should be careful when preparing the Proposal for Grant-in-Aid so that, for example, he or she fills in the Title of the Proposed Project in a way that makes it clear that it does not entail unreasonable reduplication.

If unreasonable reduplication or excessive concentration is found, KAKENHI may not be delivered.

- 2) Researchers whose research has been adopted for the “Funding Program for Next Generation World-Leading Researchers (NEXT Program)” and who are implementing their research and development can apply for KAKENHI. However, they should keep in mind that they need to discontinue the NEXT Program upon obtaining the approval from JSPS, if they implement the research funded by a KAKENHI after adoption of their application.
- 3) Concerning the completed information on the condition of applications and receiving of other Competitive Funding and other matters, including from other offices and ministries, when preparing the Proposal for Grant-in-Aid (name of Research Funds, Title of Proposed Project,

Research period, Effort, etc.), if the stated information turns out to be different from the facts, the Research Project will not be adopted, the adoption will be cancelled, or the allotted research budget will be reduced.

Moreover, concerning the “Effort”, and other matters, necessary for the activity to build a center in the program called “World Premier International Research Center Initiative”, it is necessary to fill in the Proposal for Grant-in-Aid. Therefore, when completing this document, the applicant should verify the “Procedures for Preparing and Entering a Proposal”.

(2) Dealing with Fraudulent Use, Fraudulently Received Grants or Fraudulent Acts Committed During the Research

- 1) **No KAKENHI will be offered, for a fixed period of time, when the researcher has made fraudulent use of KAKENHI, has fraudulently received KAKENHI, or has committed fraudulent acts.** (For details see “(Reference 2) Procedures on the Handling of Grants-in-Aid for Scientific Research”, “(Reference 3) Procedures on the Handling of JSPS Grants-in-Aid for Scientific Research – KAKENHI (KAKENHI (Series of Single-year Grants))” and “Procedures on the Handling of JSPS Grants-in-Aid for Scientific Research – KAKENHI (KAKENHI (Multi-year Fund))”.) Moreover, for research projects of which it has been established that fraudulent use, fraudulent receipt of grants or fraudulent acts have taken place, researchers may be requested to completely or partially return the KAKENHI in question.

Also researchers who fraudulently use or receive competitive funds other than KAKENHI (including funds under the control of other ministries), or who commit fraudulent acts by means of these competitive funds, and therefore are excluded from receiving these funds in question, for a fixed period of time, will not receive KAKENHI for a fixed period of time.

Moreover, the researcher who falls in those categories may experience difficulties when applying for other competitive funds, since an outline of the inappropriate use of grants, the inappropriate receiving of grants and/or the inappropriate acts in question (containing an outline of the research achievements in the research institution, the names of the people involved, the institution they belong to, the research project, the budget, the fiscal year of the research, the inappropriate content, details of the measures taken, etc.) will be provided to other bodies in charge of competitive funds, starting with the other ministries, including independent administrative legal entities and other institutions allocating grants.

- 2) If it has been established that fraudulent acts have taken place in a research paper, a report, or

other research output funded by KAKENHI, the researcher will be treated in the same way as stated in the above-mentioned 1). The severity of the fraudulent acts and other matters will be taken into consideration.

Moreover, a person who is determined to have a certain responsibility, because, for example, he or she neglected his/her duty of care as a person in charge of the paper, report, etc. in question, will be treated in the same way, even if it has not been established that he or she was directly involved in the fraudulent acts.

(* Eliminate Unreasonable Reduplication and Excessive Concentration

**“Guidelines on the Proper Implementation of Competitive Funding” -Extract-
(Agreement of the Liaison Meeting of Related Offices and Ministries on Competitive Funding, Dated September 9, 2005 (Revision: October 17, 2012))**

2. Eliminate Unreasonable Reduplication and Excessive Concentration

(1) Basic Policy of the Unreasonable Reduplication and Excessive Concentration

① In these guidelines, “Unreasonable Reduplication” is a situation in which more than one competitive funding is needlessly and repeatedly allotted to one and the same research project (i.e. the title and the content of the research to which competitive funding is being allotted; the same applies below) carried out by one and the same researcher. Either of the following cases fall under “Unreasonable Reduplication”.

○Cases where applications have been made at the same time for more than one competitive funding for substantively the same research project (including research projects that overlap to a considerable degree; the same applies below), and where these research projects are redundantly adopted .

○Cases where an application has been made again for substantively the same research project as another project that has already been adopted, and for which the allotment of competitive funding has already been completed.

○Cases where there is a reduplication of the use research funds among more than one research project.

○Other cases corresponding to the cases mentioned above.

② In these guidelines, “Excessive Concentration” is a situation in which the entire research funds that are allotted to one and the same researcher or research group (hereinafter called “researcher, etc.”) in the fiscal year in question exceeds the limit within which they can be used effectively and efficiently, and in which the research funds cannot be used within the research period. Either of the following cases fall under “Excessive Concentration”.

○Cases where, in the light of the abilities of the researcher, etc. and the research methods, etc., excessive research funds are allotted.

○Cases where, in comparison with the effort (the time allocation rate (%) of time necessary for the implementation of the research activities with the entire working time of researcher) that is being allotted to the research project in question, excessive research funds are allotted.

○Cases where the purchase of unnecessarily expensive equipment is carried out.

○Other cases corresponding to the cases mentioned above.

7. On the Promotion of the ‘Dialogue on Science and Technology with Citizens’ (A Basic Course of Action)

For KAKENHI, it has, until now, clearly been mentioned in the utilization rules by researchers (subsidiary conditions or funding conditions), the Handbook for KAKENHI, and other materials, that the expenses for the creation of a homepage for the publication of the research achievements, the expenses for the creation of a pamphlet publicizing research achievements, the expenses associated with outreach activities, such as, for example, activities publicizing the research achievements among the general public, can be paid as direct costs. Moreover, researchers must endeavor to positively disseminate the achievements produced through KAKENHI to society and citizens. For example, it is requested that researchers mention information concerning outreach activities in the report on the research achievements they are requested to prepare after the completion of the research period.

Furthermore, JSPS has implemented the program “HIRAMEKI ☆ TOKIMEKI SCIENCE” in order to introduce the newest research achievements to elementary school, junior high-school and senior high-school pupils, in an easy-to-understand form, through experiences, experiments and lectures. Researchers are invited to make use of this program.

Moreover, in “*On the Promotion of the ‘Dialogue on Science and Technology with Citizens’ (A Basic Course of Action)*” (June 19, 2010, the Minister of State for Science and Technology Policy and the Experts of the Council for Science and Technology Policy) which has been compiled in June 2010, the activity in which researchers explain the content and achievements of their research activities to society and citizens in an easy-to-understand form is placed in the above-mentioned ‘Dialogue on Science and Technology with Citizens’. Researchers and other persons who have received an allotment of public research funds amounting more than 30,000,000 yen per year per case are requested to positively work on the ‘Dialogue on Science and Technology with Citizens’. Universities and other research institutions are also requested to make positive efforts in order to enable the proper implementation of the Dialogue on Science and Technology between Citizens, on the one hand, and researchers and other persons who have received public research funds, on the other hand, for example, by setting up support systems.

For KAKENHI, there is the question “Are you positively trying to publicize and disseminate the research content and research achievements?”, especially in the research progress assessment of, for example, Specially Promoted Research, for which researchers receive a relatively high amount of research funds, and the interim assessment of, for example, Scientific Research on Innovative Areas (Research in a proposed research area). Therefore, based on the above-mentioned Basic Course of

Action, researchers should disseminate the achievements of research funded with KAKENHI to society and citizens in an even more positive way.

8. Cooperation with the National Bioscience Database Center

The National Bioscience Database Center (<http://biosciencedbc.jp/>) has been established in the Japan Science and Technology Agency (JST, an independent administrative legal entity) in April 2011, in order to promote the integrated use of databases in the area of life science that have been created by various research institutions and other institutions.

This Center spurs the active participation of related institutions, and based on four pillars, namely (1) the planning of strategies, (2) creation and operation of portal websites, (3) research on and development of core technology for the integration of databases and (4) the promotion of the integration of biotechnology-related databases, it is promoting projects aiming at the integration of databases in the area of life science. In this way, through wide sharing and utilization in the researchers community of the research achievements in the area of life science produced in Japan, the Center aims at invigorating overall research in the area of life science, including research and development connected to basic research and industrial applied research.

JSPS would like to request researchers to cooperate by providing to the Center copies of raw data related to achievements published in research papers and other output in the area of life science, or copies of created open databases.

Moreover, the copies provided will be able to be utilized on a non-exclusive basis as reproductions, alterations, or in other necessary forms. Furthermore, JSPS would like researchers to understand in advance that, in response to requests of the institutions that received copies, it would also like request researchers to cooperate by providing all the information necessary for utilizing the copies.

Please direct inquiries to:

Japan Science and Technology Agency, National Bioscience Database Center

Tel. 03-5214-8491

II. Details of the Call for Proposals

The current round of call for proposals opens before the finalization of the budget for FY2013, so that researchers can start their research as soon as possible.

Therefore, please be aware in advance that, depending on the situation regarding the overall budget, details like resources to be allocated and other matters may be subject to change at a later stage.

1. Research Categories for which a Call for Proposals is Organized

Grants-in-Aid for Research Activity Start-up

(1)Target: Research proposals by individual researchers who were unable apply for a grant during the previous year's fall application period. Such proposals must contain excellent concepts capable of advancement by initiating the proposed research activities.

(2)Amount of grant: Up to ¥1.5 million per year

(3)Period of grant: Up to 2 years

(4)Important eligibility points

In addition to possessing eligibility to apply for a Grant-in-Aid for Scientific Research, applicants must also meet one the following two requirements. (See pages 19-24 for further details.)

A) Persons who could not apply for a research category, because they became eligible to apply for KAKENHI on the day after the application deadline (November 9, 2012) for the research categories (*1) for which the Ministry of Education, Culture, Sports, Science and Technology (MEXT) and the Japan Society for the Promotion of Science (JSPS) organized a call for proposals in September 2012.

B) Persons who could not apply for the research categories (*1) for which the Ministry of Education, Culture, Sports, Science and Technology (MEXT) and the Japan Society for the Promotion of Science (JSPS) organized a call for proposals in September 2012, because they took up maternity leave or childcare leave in FY2012.

(*1) Among the Grants-in-Aid for Scientific Research for FY2013 there are "Scientific Research on Innovative Areas", "Specially Promoted Research", "Scientific Research", "Challenging Exploratory Research" and "Grant-in-Aid for Young Scientists".

3. The research institution should submit a “Self-assessment Checklist on the Implementation of the System”, based on the “Guidelines on the Management and Audit of Public Research Funds at Research Institutions (Implementation Standards)” (section 4 in “Procedures to Be Completed by the Research Institution”). If it has not been submitted, the applications of researchers belonging to the research institution in question will not be accepted in the Electronic Application System.

(2) Schedule after the Submission of the Application Documents (plan)

June-August 2013: Application screening

Late August: Notice of provisional decision

Mid-September: Request for disbursement

Early October: Decision on grant amount

Mid-October: Disbursement of grant

III. Instructions & Procedures for those Intending to Apply

1. Procedures to be Completed Prior to the Application

Three matters need to be completed before the application: (1) Verification of the Eligibility to Apply, (2) Verification of the Registration of the Researcher Information, (3) Obtaining an ID and Password to Use the Electronic Application System.

(1) Verification of the Eligibility to Apply

A qualified person should apply for a Grant-in-Aid for Scientific Research as a Principal Investigator.

Applicants should meet the requirements ① and ② below.

Moreover, if a qualified applicant belongs to more than one research institution, he or she can apply from either of these research institutions. However, in that case, he or she cannot make more than one application for a Grant-in-Aid for Research Activity Start-up as a Principal Investigator.

In addition, JSPS Fellows and Foreign JSPS Fellows cannot apply for "Grant-in-Aid for Scientific Research".

Students, such as, for example, graduate students, cannot apply for Grants-in-Aid for Scientific Research. (See note.) Therefore, applicants should bear in mind that, students cannot apply, even if they hold a position in which they conduct research activities in the research institution to which they belong or in another research institution.

(Note) Persons who have a position consisting of conducting research activities in the research institution to which they belong, as their main work (e.g., university teaching staff, researchers from companies, etc.), and who also have a student status are not included in the term "student".

- ① **At the time of the application, a person needs to be recognized by the research institution (Note) to which he or she belongs to be a researcher who meets the requirements 1) , 2) and 3) below, and needs to be a researcher whose Researcher Information has been registered in e-Rad as “Eligible to Apply for Grants-in-Aid for Research”.**

Requirements

- 1) **The researcher should belong to the research institution as a person who has *inter alia* the duty to perform research activities within the research institution in question** (irrespective of whether the work is paid or unpaid, full-time or part-time. Moreover, it is not necessary for the researcher to perform these research activities as such as his or her main duty.)
- 2) **The researcher should actually be engaged in research activities at the research institution in question**(This does not apply to cases where he or she is only engaged as a research assistant.)
- 3) **The researcher is not a graduate student or any other category of student.** (However, this does not apply to persons who have a position consisting of conducting research activities in the research institution to which they belong, as their main work (e.g., university teaching staff, researchers from companies, etc.), and who also have a student status.)

Note: Research institutions as prescribed in Article 2 of the Rules for the Handling of Grants-in-Aid for Scientific Research (announced by the Ministry of Education)

(Reference) Requirements that need to be met by the research institution (see page 75)

Requirements

- If a KAKENHI is given, the research activity should be conducted as an activity of the research institution in question.
- If a KAKENHI is given, the research institution should carry out the management of the KAKENHI.

- ② **A person should not fall under “Not eligible for receipt of funding” in FY2013, because he or she committed fraudulent use, fraudulent receiving of grants or fraudulent acts of/with Grants-in-Aid for Scientific Research or other competitive funding.**

Persons who are employed through KAKENHI (hereinafter called “research grant employees”), as a rule, need to concentrate on work related to a KAKENHI at their place of employment (hereinafter called “employment related work”) according to their employment contracts. Therefore, considering the working hours they need to allot to the employment related work, they cannot apply for KAKENHI themselves.

However, if they provide a clear explanation on the time they can spend besides their employment related work, and if during this time they themselves attempt to conduct research using a KAKENHI, on their own initiative, it is possible for them to apply for KAKENHI, on condition that the following points have been verified in the research institution.

- It has been determined in the employment contract that research grant employees themselves can conduct research on their own initiative, besides the employment related work.
- The employment related work and the work devoted to research that they conduct themselves on their own initiative has clearly been divided in the working hours and the effort.
- Time that can be allotted to research which they attempt to conduct themselves on their own initiative has sufficiently been secured, besides the time spent for employment related work.

In addition, it may happen to researchers that they are treated as indicated below, even if their researcher information has been registered in e-Rad as “Eligible to Apply for KAKENHI”.

- If it is judged in the research institution to which researchers belong that it is not appropriate to let them conduct their research activities as activities of the research institution in question, it may happen that the research institution does not recognize the application. It may also happen that the application for funding by these researchers in question is not recognized and that the application for funding of the KAKENHI is rejected.
- No KAKENHI will be funded, if there is a new application for Grants-in-Aid for Scientific Research from researchers who do not submit the report on the research achievements at the end of the research, without any reason, even if their research has been adopted after screening. Moreover, if researchers have failed, without good reason, to submit the scheduled report on the research achievements, then implementation of other Grants-in-Aid for Scientific Research due to be implemented in the same fiscal year will be suspended.

Persons applying for a Research Activity Start-up grant must have met the eligibility requirements (stipulated on the prior page) at the time they apply, plus they must satisfy one of the following two conditions, as confirmed by their affiliated research institution.

Requirements

A) Persons who could not apply for a research category, because they became eligible to apply for KAKENHI on the day after the application deadline (November 9, 2012) for the research categories for which the Ministry of Education, Culture, Sports, Science and Technology (MEXT) and the Japan Society for the Promotion of Science (JSPS) organized a call for proposals in September 2012.

(Examples: Persons newly employed as a researcher in a Japanese research institution on 1 April 2013; persons newly employed as a researcher in a Japanese research institution upon return from overseas.)

B) Persons who could not apply for the research categories for which the Ministry of Education, Culture, Sports, Science and Technology (MEXT) and the Japan Society for the Promotion of Science (JSPS) organized a call for proposals in September 2012, because they took up maternity leave or childcare leave in FY2012.

Note 1: Regarding A) above, if the applicant has a question as to whether s/he satisfies this eligibility conditions (including his/her data registration), s/he should ask JSPS (Research Program Department, Research Aid Division II) via his/her affiliated research institution.

Note 2: Regarding B) above, among persons satisfying this eligibility condition, those registered as “Eligible to apply for KAKENHI” in e-Rad on or before 9 November 2012 are required to submit the below-listed information to arrive at JSPS by 5 p.m., Friday, 26 April 2013 via their affiliated research institution.

1. Institution number
2. Institution name
3. Title, name and seal (ouin) of head of institution
4. Researcher’s serial number
5. Researcher’s name (kanji and katakana)
6. Reason for not being able to apply for a Grant-in-Aid recruited in September 2012 (within 100 characters), and period of maternity/infant-raising leave.
7. Contact information on cognizant administrative staff (name, division, section, telephone number)

Examples of persons eligible to apply

Persons who satisfy the eligibility requirements (stipulated on the prior page) plus one of the following two conditions:

Persons coming under A) above

- 1) Newly employed as a researcher in a Japanese research institution on or after 1 April 2013 (e.g., newly employed as an assistant professor). However, even if the researcher was employed in the research institution on or before 31 March 2013, s/he may apply for a Research Activity Start-up grant if during that time s/he was not eligible to apply for a Grant-in-Aid.
- 2) Persons who were hired at a Japanese research institution from overseas or a private company and newly acquired application eligibility and who were unable to apply for a Grant-in-Aid recruited in September of the previous year. However, persons who had application eligibility on or before 9 November 2012 but subsequently lost that eligibility and then got it back on or after the application deadline (9 November 2012) may apply for this Research Activity Start-up grant. (Example: A person who, after having been employed as a research assistant in a Japanese research institution, became a researcher at an overseas research organization, then returned to Japan to be employed as a professor in a Japanese research institution in January 2013.)

Persons coming under B) above

Regarding persons who were unable to apply for a Grant-in-Aid recruited in September of the previous year because they had taken maternity/infant-nursing leave in FY 2012. In this case, the timing of the leave; that is, whether it was taken during the application period for Grants-in-Aid recruited in September, is not questioned.

(2) Verification of the Registration of the Researcher Information in e-Rad

A Principal Investigator who tries to apply for research categories for which a call for proposals is organized this time should be a person who is eligible to apply at the time of the deadline for the submission of the application documents, and should be a person whose researcher information is registered in e-Rad as “Eligible to Apply for KAKENHI”.

Therefore, **when applying, it is necessary to first perform a verification of the content of the registration in e-Rad.**

Regarding the registration in e-Rad, in order for the research institution to which the Principal Investigator belongs to conduct the procedures in e-Rad, he or she should verify concerning the registration procedures to be conducted by the research institution to which he or she belongs (registration deadline within the research institution, methods of verification of the current state of the registration, etc.) with the research institution to which he or she belongs. (If there is any item (such as “the institution”, “the position”, or others) that needs to be corrected, even though he or she has already been included in e-Rad of the research institution, the applicant needs to register the correct information on e-Rad.)

(3) Obtaining an ID and a Password to Use the Electronic Application System

When applying, it is necessary to login into e-Rad, to access the Electronic Application System, and to prepare the application documents. Therefore, the applicant should first be **provided with an ID and a password for e-Rad** by the research institution.

Moreover, Researchers who already obtained an ID and a password issued by e-Rad do not need to obtain it again.

2. Verification of the Restrictions on Duplication

Before preparing the application forms, researchers who would like to apply for KAKENHI need to sufficiently verify the rules for “restrictions on duplication” in order to find out whether it is possible to apply for the research category they would like to apply for.

(1) Restrictions on Duplication in the Basic Policy

In the KAKENHI different “Research Categories” and “Screening Divisions” have been made, based on the scale of the research, the content, and other factors, This makes it possible to apply for research projects that meet the demands of various research forms.

On the other hand, taking into consideration the necessity to support many excellent researchers with limited resources, the danger of negatively affecting the operation of proper reviewing by an increase in the number of applications, and other elements, “Rules for Restrictions on Duplication” have been set up, based on the following fundamental principles.

- ① Making sure that as many excellent researchers as possible are supported with limited resources.
- ② Making sure that the number of applications does not increase dramatically, based on the reviewing system of each research category.
- ③ When setting up restrictions, primarily making the Principal Investigator who bears all responsibility eligible for the implementation of research projects, but also making the Co-Investigator (*kenkyū-buntansha*) eligible in some cases, for example, if the amount of funds in a research category is large.
- ④ Based on the fundamental principles outlined above, taking into consideration the purpose, character, and other elements of the “Research Categories” of the Grants-in-Aid for Scientific Research, and setting up restrictions on duplication separately, by making a distinction between the restrictions on application or restrictions on receiving of funds.

Moreover, if a research project falls under the concept “unreasonable reduplication” as shown in the “Guidelines on the Proper Implementation of Competitive Funding” (cf. p. 13), it is likely to be judged to be “unreasonable reduplication” in the stage of the screening. Therefore, when preparing the Proposal for Grant-in-Aid, the applicant should take this into account.

(2) Restrictions on Duplicate Applications

1) Under this call for Research Activity Start-up grants, an individual researcher may apply as the principal investigator of one research project.

2) Limit on multiple applications under this grant category

a) Persons who have applied for an Encouragement of Scientists grant under the FY2013 Grants-in-Aid program may also apply for a Research Activity Start-up grant if they are eligible to do so during the period from 2 April 2013 to the grant's application submission deadline. However, if selected for both grants, they must stop using the already-disbursed Encouragement of Scientists grant and take steps to return those funds immediately upon receipt of the Notice of Provisional Decision for the Research Activity Start-up grant.

Note: Encouragement of Scientists: Research carried out by an employee of an educational or research institution or a corporation or any other individual.

b) Persons with Fellowships under JSPS's Research Fellowships for Young Scientists or Postdoctoral Fellowships for Research Abroad are excluded from this call for Research Activity Start-up grants. However, they may apply if they are eligible to do so during the period from 2 April 2013 to the application submission deadline for the Research Activity Start-up grant. (Examples: A person who got hired as an assistant professor or a person who lost his/her fellowship eligibility during that period.) However, if selected for a Research Activity Start-up grant, the researcher must stop using the already-disbursed Grant-in-Aid for JSPS Fellows and take steps to return those funds immediately upon receipt of the Notice of Provisional Decision for the Research Activity Start-up grant.

(3) Other Important Points

1) Even when multiple applications are accepted by e-Rad, their screening may not be performed due the limitation placed on multiple grant applications.

2) When a researcher has application eligibility in multiple research institutions, s/he may apply from any of them; under this recruitment, however, s/he may only apply as the principal investigator for one Research Activity Start-up project.

3) After receiving this Research Activity Start-up project grant, one should take care not to neglect his/her responsibility as its principal investigator while participating in other research projects.

4) Regarding the call for FY2014 Grants-in-Aid applications: Principal investigators in Research Activity Start-up projects may apply for a grant under another category. If selected, however, first-year principal investigators will not receive funding for the

second year of their Research Activity Start-up project.

3. Preparing the Application (Proposal for Grant-in-Aid) and Submitting the Application (Proposal for Grant-in-Aid)

The document necessary for the application is the Proposal for Grant-in-Aid.

The Principal Investigator should prepare the Proposal for Grant-in-Aid (PDF file) by entering the application information (Items to be filled in on the form on the website), and by attaching the separately prepared Files with Project Description (Items to be entered in the attached file) to the Electronic Application System. Then he or she should submit (send) the Proposal for Grant-in-Aid to the research institution he or she belongs to, by the deadline set by the research institution.

Details on the preparation of the Proposal for Grant-in-Aid and the way how to apply are as follows. The applicant should verify this information.

(1) Application via the Electronic Application System

When applying, **the applicant should login into the “e-Rad” using the e-Rad ID and Password that is provided by the research institution to which he or she belongs. Then he or she should access the “Electronic Application System” and prepare the application documents.**

- 1) Researchers who apply as Principal Investigators, based on the “Procedures for Preparing and Entering Application Information (Items to be filled in on the form on the website) (Research Activity Start-up)”. Finally they should attach the project description file (Items to be entered in the attached file), that has been separately

Note The project description file (items to be entered in the attached file) can also be downloaded from the JSPS website on Grants-in-Aid for Scientific Research – KAKENHI (<http://www.jsps.go.jp/j-grantsinaid/index.html>) before obtaining an ID and a password.

- 2) The research institution to which the Principal Investigator belongs should compile and submit the necessary proposal for grant-in-aid.

Therefore, the Principal Investigator should **submit (send) the application documents to the research institution he/she belongs to, by the deadline decided the research institution. (He or she cannot submit (send) them directly to JSPS.)**

Moreover, when submitting (sending) it, he or she should sufficiently check the details of the Proposal for Grant-in-Aid (PDF file) he or she prepared, and perform the “check completed and submission” process.

(He or she should submit the proposal for grant-in-aid (PDF file) to the research institution to

which he or she belongs.)

(2) Preparing the proposal for Grant-in-Aid

The Principal Investigator should prepare a proposal for grant-in-aid, for “**Research Activity Start-up**”, in accordance with the “**Procedures for Preparing and Entering Application Information (to be entered in the website) (Research Activity Start-up)**” and “**FY2013 Grants-in-Aid for Research Activity Start-up, Procedures for Preparing and Entering a Proposal for Grant-in-Aid**”.

On the Proposal for Grant-in-Aid

1) A proposal for grant-in-aid consists of the following two parts:

First part: Enter the application information (to be entered in the website) (*1) in the electronic application system.

(*1) Information to be entered by the Principal Investigator in the website via the electronic application system includes the title of proposed project, basic data on the proposed project, like the budget for which the application is made, etc.

Second part: Download the project description file (*2) from the section “Grants-in-Aid for Scientific Research - KAKENHI” of the JSPS website (<http://www.jsps.go.jp/j-grantsinaid/index.html>), and prepare the proposal for grant-in-aid (PDF file) by attaching it to the “electronic application system”.

(Paper-based applications will not be accepted.)

(*2) Details on the research project including the purpose of the research, the research plan and research methods should be entered.

Research category	Proposal for grant-in-aid	
	First part	Second part
	Application information (to be entered in the website)	Project description file
Grant-in-Aid for Research Activity Start-up	To be entered in the electronic application system	S-1-17

2) A copy of the proposal for grant-in-aid in black-and-white (gray scale) print is sent to the screening committee. Therefore, when preparing the proposal for grant-in-aid, the applicant should pay attention not to make a version of which the content becomes unclear when copied.

3) The personal information included in the proposal for grant-in-aid will be used to eliminate unreasonable reduplication and excessive concentration of competitive funds and to carry out service on KAKENHI. (This also includes offering personal information to external private enterprises in charge of electronic processing and management of the data.) The personal information included in the application forms will also be provided to the e-Rad. (It may happen that information will be supplied to the Government Research and Development Database of the Cabinet Office through e-Rad. Moreover, the applicant may be requested to cooperate in various kinds of work, the verification of information and other matters, in order to prepare this information.)

※ “Government Research and Development Database”: In order to appropriately assess research and development conducted using national funding, and in order to effectively and efficiently draft policy plans related to comprehensive strategy, resource allotment and other matters, the Council for Science and Technology Policy of the Cabinet Office has created a database that makes it possible to comprehend various kinds of information in an integrated and exhaustive manner, and to search and analyze necessary information.

Moreover, information concerning adopted research projects (title of proposed project, name of the Principal Investigator, amount planned to be provided, etc.) is considered to be “information planned to be made public”, as laid down in Article 5, paragraph 1, item 1 of the “Act on Access to Information Held by Independent Administrative Agencies” (Act No. 140 of 2001). This information will be disclosed through press release materials, the database of the National Institute of Informatics, and other means.

Issues that Need to Be Considered When Preparing the Proposal for Grant-in-Aid

When preparing the Proposal for KAKENHI, the applicant should check the following points and verify whether there no flaws in the content.

1. Whether or not it is an Ineligible Research Project

The following research projects are not eligible:

- A) Research projects which merely aim at purchasing ready-made research equipment.
- B) Research projects which aim at producing large-size research equipment and similar things which should be funded by other budgets.
- C) Research projects which directly aim at developing and selling goods and services (including market trend surveys on the development and sale of goods and services).

- D) Funded research which is carried out as commercial business.
- E) Research projects with a budget of less than 100,000 yen in any of the fiscal years of the research period.

2. Whether the following requirements are met for the Project Members

When necessary, the Principal Investigator can set up a team of project members together with a Research Collaborator, according to the nature of the research project.

Moreover, regarding the Principal Investigator, the research institution needs to verify whether, at the time of the application, the following requirements are met.

However, Research Collaborators do not necessarily need to be registered in e-Rad.

Moreover, JSPS Fellows, Foreign JSPS Fellows and students, such as, for example, graduate students cannot become Principal Investigators.

1) Principal Investigator (The applicant)

- (A) The Principal Investigator is a member of a funded project and is the researcher who assumes full responsibility for the implementation of the research project (including the summarizing of the research achievements).

Moreover, persons who are expected to become unable to carry out their responsibility as a Principal Investigator, for example due to the loss of their applicant eligibility during the period of research, should avoid becoming a Principal Investigator. (See note.)

(Note) The Principal Investigator is the researcher who assumes full responsibility for the implementation of the research plan, and thus plays a central role. Persons who, at the time they apply, are expected to lose their eligibility to apply during the research period, due to retirement or other reasons, and thus become unable to carry out their responsibility, are requested to avoid becoming a Principal Investigator.

For this reason, replacements of Principal Investigators will not be accepted anymore.

- (B) Apart from registration in e-Rad of the information on the researchers as “Eligible to Apply for KAKENHI”, it is essential that Principal Investigators are not designated as ineligible for receipt of funding in FY2013, because they committed fraudulent use, fraudulent receipt of grants or fraudulent acts using KAKENHI or other competitive funding.

2) Research Collaborator

- (A) A Research Collaborator is somebody who cooperates in the implementation of a research

project other than the Principal Investigator.

(For example, a postdoctoral researcher, a research assistant (RA), a Fellow of the Japan Society for the Promotion of Science (JSPS Fellow), a researcher who belongs to an overseas research institution, a researcher who works for a corporation that is not recognized according to Article 2 of the Rules for the Handling of Grants-in-Aid for Scientific Research, etc.)

(B) It is not necessary for Research Collaborators to register the information on the researchers in e-Rad as “Eligible to Apply for KAKENHI”.

3. Whether the following requirements are met for the Budget

1) Eligible costs (direct costs)

The budget necessary for the implementation of the research plan (including the budget necessary for summarizing the research achievements) is eligible.

* In case of research projects where in any of the fiscal years any of the costs like “equipment”, “travel expenses” or “personnel expenditure and remuneration” exceeds 90%, the applicant should write down in the proposal for grant-in-aid the reasons why these costs in question are necessary for the implantation of the research.

2) Ineligible costs

The following costs are not included in the funding:

A Costs for buildings and other facilities (excluding the costs for minor installations which became necessary because of the introduction of goods that have been purchased by means of direct costs)

B Costs for handling accidents or disasters that occurred during the implementation of funded project

C Personnel expenditure and remuneration for the Principal Investigator

D Other costs which fall under indirect costs*

* Indirect costs are costs necessary for the management of the research institution and other things that arise during the implementation of the research project (corresponding with 30% of the amount of the direct costs). The costs are used by the research institution.

This time, it is scheduled to set up indirect costs for the research categories for which a call for proposals is organized. However, the Principal Investigator does not need to state those indirect costs in the application documents.

4. When applying, the applicant should select a desired area for screening as follows

When applying, researchers must select one of the below-listed research fields as the one they want their application to be screened under. **“List of Categories, Areas, Disciplines and Research**

Fields for FY2013 Grants-in-Aid for Scientific Research” is hereafter referred to as “List of Research Fields”. (See Table 1 on pages 34-36.) Applicants should choose from among the listed research fields the one most closely related their project.

When applying for research fields tagged [A] or [B] in Table 1, it is also necessary to select [A] or [B] from Attached Table 2 “Appendix Table of Keywords” (hereinafter called “Table of Keywords”; see pages 37-73).

	Humanities and Social Sciences	Science and Engineering	Biological Sciences
Desired area for screening	1)Humanities 2)Social Sciences	3)Mathematical and physical sciences 4)Chemistry 5)Engineering	6)Biology 7)Agricultural sciences 8)Medicine, dentistry, and pharmacy

Attached Table 1 List of Categories, Areas, Disciplines and Research Fields

(1) Grants-in-Aid for Scientific Research FY2013 List of Categories, Areas, Disciplines and Research Fields

Category: Integrated Disciplines

Area	Discipline	Research Field	Item Number	Remark			
Informatics	Principles of Informatics	Theory of informatics	1001				
		Mathematical informatics	1002				
		Statistical science	1003				
	Principles of Informatics	Principles of Informatics	Computer system	1101			
			Software	1102			
			Information network	1103			
			Multimedia database	1104			
			High performance computing	1105			
			Information security	1106			
			Cognitive science	1201			
	Human informatics	Human informatics	Perceptual information processing	1202			
			Human interface and interaction	1203			
			Intelligent informatics	1204			
			Soft computing	1205			
			Intelligent robotics	1206			
			Kansei informatics	1207			
			Frontiers of informatics	Frontiers of informatics	Life / Health / Medical informatics	1301	
					Web informatics, Service informatics	1302	A B
	Library and information science/ Humanistic social informatics	1303			A B		
	Learning support system	1304					
	Entertainment and game informatics	1305					
	Environmental analyses and evaluation	Environmental analyses and evaluation			Environmental dynamic analysis	1401	
	Risk sciences of radiation and chemicals		1402	A B			
	Environmental impact assessment		1403				
	Environmental conservation	Environmental conservation	Environmental engineering and reduction of environmental burden	1501			
			Modeling and technologies for environmental conservation and remediation	1502			
			Environmental conscious materials and recycle	1503			
Environmental risk control and evaluation			1504				
Sustainable and environmental system development			Sustainable and environmental system development	Environmental and ecological symbiosis	1601		
				Design and evaluation of sustainable and environmental conscious system	1602		
	Environmental policy and social systems	1603					
Complex systems	Design science	Design science	1651				
		Home economics/Human life	1701				
	Human life science	Human life science	Clothing life/Dwelling life	1702			
			Eating habits	1703	A B		
	Science education/ Educational technology	Science education/ Educational technology	Science education	1801			
			Educational technology	1802			
	Sociology/History of science and technology	Sociology/History of science and technology	Sociology/History of science and technology	1901			
			Cultural assets study and museology	2001	A B		
	Geography	Geography	Geography	2101			
			Social systems engineering/ Safety system	2201	A B		
	Social/Safety system science	Social/Safety system science	Natural disaster / Disaster prevention science	2202	A B		
			Biomedical engineering/ Biomaterial science and engineering	2301	A B		
	Biomedical engineering	Biomedical engineering	Medical systems	2302			
			Medical engineering assessment	2303			
			Rehabilitation science/ Welfare engineering	2304	A B		

Area	Discipline	Research Field	Item Number	Remark	
Complex systems	Health/Sports science	Developmental mechanisms and the body works	2401	A B	
		Sports science	2402	A B	
		Applied health science	2403	A B	
	Childhood science	Childhood science (childhood environment science)	Childhood science (childhood environment science)	2451	
			Biomolecular science	Biomolecular chemistry	2501
	Brain sciences	Brain sciences	Chemical biology	2502	
			Basic / Social brain science	2601	A B
			Brain biometrics	2602	

Category: Humanities and Social Sciences

Area	Discipline	Research Field	Item Number	Remark	
Humanities/ Social sciences	Area studies	Area studies	2701		
		Gender	2801		
Humanities	Philosophy	Philosophy/Ethics	2901		
		Chinese philosophy/Indian philosophy/Buddhist studies	2902		
		Religious studies	2903		
		History of thought	2904		
	Art studies	Art studies	Aesthetics and studies on art	3001	
			Fine art history	3002	
			Art at large	3003	
	Literature	Literature	Japanese literature	3101	
			Literature in English	3102	
			European literature	3103	
			Chinese literature	3104	
			Literature in general	3105	
	Linguistics	Linguistics	Linguistics	3201	
			Japanese linguistics	3202	
			English linguistics	3203	
Japanese language education			3204		
Foreign language education			3205		
History	History	Historical studies in general	3301		
		Japanese history	3302		
		History of Asia and Africa	3303		
		History of Europe and America	3304		
		Archaeology	3305		
Human geography	Human geography	3401			
Cultural anthropology	Cultural anthropology	3501			
Social sciences	law	Fundamental law	3601		
		Public law	3602		
		International law	3603		
		Social law	3604		
		Criminal law	3605		
		Civil law	3606		
		New fields of law	3607		
	Politics	Politics	Politics	3701	
			International relations	3702	
	Economics	Economics	Economic theory	3801	
Economic doctrine/ Economic thought			3802		
Economic statistics			3803		
Economic policy			3804		
Public finance/Public economy			3805		
Money/ Finance			3806		
Economic history			3807		
Management	Management	Management	3901		
		Commerce	3902		
		Accounting	3903		
Sociology	Sociology	Sociology	4001		
		Social welfare and social work studies	4002		

When applying for research fields tagged [A] or [B] in Table 1, it is also necessary to select [A] or [B] from Attached Table 2 "Appendix Table of Keywords" (hereinafter called "Table of Keywords")

(Humanities and Social Sciences)

Area	Discipline	Research Field	Item Number	Remark
Social sciences	Psychology	Social psychology	4101	
		Educational psychology	4102	
		Clinical psychology	4103	
		Experimental psychology	4104	
	Education	Education	4201	
		Sociology of education	4202	
		Education on school subjects and activities	4203	
		Special needs education	4204	

Category: Science and Engineering
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Interdisciplinary science and engineering	Nano/Micro science	Nanostructural chemistry	4301		
		Nanostructural physics	4302		
		Nanomaterials chemistry	4303		
		Nanomaterials engineering	4304		
		Nanobioscience	4305		
		Nano/Microsystems	4306		
	Applied physics	Applied materials	4401		
		Crystal engineering	4402		
		Thin film/Surface and interfacial physical properties	4403		
		Optical engineering, Photon science	4404		
		Plasma electronics	4405		
	Quantum beam science	General applied physics	4406		
		Quantum beam science	4501		
	Computational science	Computational science	4601		
Mathematical and physical sciences	Mathematics	Algebra	4701		
		Geometry	4702		
		Basic analysis	4703		
		Mathematical analysis	4704		
		Foundations of mathematics/Applied mathematics	4705		
	Astronomy	Astronomy	4801		
	Physics	Particle/Nuclear/Cosmic ray/Astro physics	4901		
		Condensed matter physics I	4902		
		Condensed matter physics II	4903		
		Mathematical physics/Fundamental condensed matter physics	4904		
		Atomic/Molecular/Quantum electronics	4905		
		Biological physics/Chemical physics/Soft matter physics	4906		
		Plasma science	Plasma science	5101	
	Earth and planetary science	Solid earth and planetary physics	5001		
		Meteorology/Physical oceanography/Hydrology	5002		
		Space and upper atmospheric physics	5003		
		Geology	5004		
		Stratigraphy/Paleontology	5005		
		Petrology/Mineralogy/Economic geology	5006		
		Geochemistry/Cosmochemistry	5007		
		Plasma science	Plasma science	5101	
	Chemistry	Basic chemistry	Physical chemistry	5201	
			Organic chemistry	5202	
			Inorganic chemistry	5203	
		Applied chemistry	Functional solid state chemistry	5301	
			Synthetic chemistry	5302	
			Polymer chemistry	5303	
Analytical chemistry			5304		
Bio-related chemistry			5305		
Green/Environmental chemistry			5306		
Energy-related chemistry			5307		
Materials chemistry		Organic and hybrid materials	5401		
		Polymer/Textile materials	5402		
		Inorganic industrial materials	5403		
		Device related chemistry	5404		
Engineering	Mechanical engineering	Materials/Mechanics of materials	5501		
		Production engineering/Processing studies	5502		

Area	Discipline	Research Field	Item Number	Remark	
Engineering	Mechanical engineering	Design engineering/ Machine functional elements/ Tribology	5503		
		Fluid engineering	5504		
		Thermal engineering	5505		
		Dynamics/Control	5506		
		Intelligent mechanics/ Mechanical systems	5507		
		Power engineering/Power conversion/Electric machinery	5601		
		Electronic materials/ Electric materials	5602		
	Electrical and electronic engineering	Electron device/ Electronic equipment	5603		
		Communication/ Network engineering	5604		
		Measurement engineering	5605		
		Control engineering/System engineering	5606		
		Civil engineering materials/ Construction/ Construction management	5701		
		Structural engineering/ Earthquake engineering/ Maintenance management engineering	5702		
	Civil engineering	Geotechnical engineering	5703		
		Hydraulic engineering	5704		
		Civil engineering project/ Traffic engineering	5705		
		Civil and environmental engineering	5706		
		Building structures/Materials	5801		
		Architectural environment/ Equipment	5802		
	Architecture and building engineering	Town planning/ Architectural planning	5803		
		Architectural history/Design	5804		
		Material engineering	Physical properties of metals/Metal-base materials	5901	
			Inorganic materials/Physical properties	5902	
	Composite materials/Surface and interface engineering		5903		
	Structural/Functional materials		5904		
	Material processing/Microstructural control engineering		5905		
	Metal making/Resource production engineering		5906		
	Process/Chemical engineering	Properties in chemical engineering process/Transfer operation/Unit operation	6001		
		Reaction engineering/Process system	6002		
		Catalyst/Resource chemical process	6003		
Biofunction/Bioprocess		6004			
Integrated engineering	Aerospace engineering	6101			
	Naval and maritime engineering	6102			
	Earth system and resources engineering	6103			
	Nuclear fusion studies	6104			
	Nuclear engineering	6105			
Energy engineering	6106				

Category: Biological Sciences

Area	Discipline	Research Field	Item Number	Remark	
Biological Sciences	Neuroscience	Neurophysiology / General neuroscience	6201		
		Nerve anatomy/Neuropathology	6202	A B	
		Neurochemistry/ Neuropharmacology	6203		
	Laboratory animal science	Laboratory animal science	6301		
	Oncology	Tumor biology	6401	A B	
		Tumor diagnostics	6402		
		Tumor therapeutics	6403		
	Genome science	Genome biology	6501		
		Medical genome science	6502		
		System genome science	6503		
Conservation of biological resources	Conservation of biological resources	6601			
Biology	Biological Science	Molecular biology	6701		
		Structural biochemistry	6702		
		Functional biochemistry	6703		
		Biophysics	6704		
		Cell biology	6705		
		Developmental biology	6706		
	Basic biology	Plant molecular biology/Plant physiology	6801		
		Morphology/Structure	6802		
		Animal physiology/Animal behavior	6803		
		Genetics/Chromosome dynamics	6804		
		Evolutionary biology	6805		
		Biodiversity/Systematics	6806		
	Anthropology	Ecology/Environment	6807		
		Physical anthropology	6901		
		Applied anthropology	6902		
Agricultural sciences	Plant production and environmental agriculture	Science in genetics and breeding	7001		
		Crop production science	7002		
		Horticultural science	7003		
	Agricultural chemistry	Plant protection science	7004	A B	
		Plant nutrition/Soil science	7101		
		Applied microbiology	7102		
		Applied biochemistry	7103		
		Bioorganic chemistry	7104		
	Forest and forest products science	Food science	7105		
		Forest science	7201		
	Applied aquatic science	Wood science	7202		
		Aquatic bioproduction science	Aquatic bioproduction science	7301	A B
			Aquatic life science	7302	
		Agricultural science in management and economy	Agricultural science in management and economy	7401	
			Agricultural science in rural society and development	7402	
Agro-engineering		Rural environmental engineering/Planning	7501		
		Agricultural environmental engineering/Agricultural information engineering	7502	A B	
Animal life science		Animal production science	7601	A B	
		Veterinary medical science	7602	A B	
		Integrative animal science	7603	A B	
Boundary agriculture		Insect science	7701		
		Environmental agriculture(including landscape science)	7702	A B	
	Applied molecular and cellular biology	7703			
Medicine, dentistry, and pharmacy	Pharmacy	Chemical pharmacy	7801		
		Physical pharmacy	7802		
		Biological pharmacy	7803		
		Pharmacology in pharmacy	7804		
		Natural medicines	7805		
		Drug development chemistry	7806		
		Environmental and hygienic pharmacy	7807		
		Medical pharmacy	7808		

Area	Discipline	Research Field	Item Number	Remark
Medicine, dentistry, and pharmacy	Basic medicine	General anatomy (including histology/embryology)	7901	
		General physiology	7902	
		Environmental physiology (including physical medicine and nutritional physiology)	7903	
		General pharmacology	7904	
		General medical chemistry	7905	
		Pathological medical chemistry	7906	
		Human genetics	7907	
		Human pathology	7908	
		Experimental pathology	7909	
		Parasitology (including sanitary zoology)	7910	
		Bacteriology (including mycology)	7911	
		Virology	7912	
		Immunology	7913	
	Boundary medicine	Medical sociology	8001	
		Applied pharmacology	8002	
		Laboratory medicine	8003	
		Pain science	8004	
	Society medicine	Epidemiology and preventive medicine	8101	
		Hygiene and public health	8102	
		Medical and hospital management	8103	
		Legal medicine	8104	
	Clinical internal medicine	General internal medicine (including psychosomatic medicine)	8201	
		Gastroenterology	8202	
		Cardiovascular medicine	8203	
		Respiratory organ internal medicine	8204	
		Kidney internal medicine	8205	
		Neurology	8206	
		Metabolomics	8207	
		Endocrinology	8208	
		Hematology	8209	
		Collagenous pathology/ Allergology	8210	
		Infectious disease medicine	8211	
		Pediatrics	8212	
		Embryonic/Neonatal medicine	8213	
		Dermatology	8214	
Psychiatric science		8215		
Radiation science		8216		
Clinical surgery	General surgery	8301		
	Digestive surgery	8302		
	Cardiovascular surgery	8303		
	Respiratory surgery	8304		
	Neurosurgery	8305		
	Orthopaedic surgery	8306		
	Anesthesiology	8307		
	Urology	8308		
	Obstetrics and gynecology	8309		
	Otorhinolaryngology	8310		
	Ophthalmology	8311		
	Pediatric surgery	8312		
	Plastic surgery	8313		
	Emergency medicine	8314		
Dentistry	Morphological basic dentistry	8401		
	Functional basic dentistry	8402		
	Pathobiological dentistry/ Dental radiology	8403		
	Conservative dentistry	8404		
	Prosthodontics/ Dental materials science and engineering	8405		
	Dental engineering/ Regenerative dentistry	8406		
	Surgical dentistry	8407		
	Orthodontics/Pediatric dentistry	8408		
	Periodontology	8409		
	Social dentistry	8410		
Nursing	Fundamental nursing	8501		
	Clinical nursing	8502		
	Lifelong developmental nursing	8503		
	Gerontological nursing	8504		
	Community health nursing	8505		

Attached Table 2 Appendix Table of Keywords

“Categories, Areas, Disciplines and Research Fields”

When applying for research fields tagged [A] or [B] , it is necessary to select [A] or [B] from “Keywords”

Category: Integrated Disciplines

Area: Informatics

Discipline: Principles of Informatics

Item Number	Research Field	Screening Sub-panel Number / Keyword
1001	Theory of informatics	1 Theory of computation
		2 Automata theory / Formal language theory
		3 Mathematical theory of programs
		4 Computational complexity theory
		5 Algorithm theory
		6 Cryptosystem
		7 Discrete structure
		8 Computational learning theory
		9 Theory of quantum computation
		10 Mathematical logic
1002	Mathematical informatics	1 Optimization theory
		2 Mathematical finance
		3 Mathematical system theory
		4 System control theory
		5 System analysis
		6 System methodology
		7 System modeling
		8 System simulation
		9 Combinatorial optimization
		10 Queueing theory
1003	Statistical science	1 Research survey and experimental design
		2 Multivariate analysis
		3 Time series analysis
		4 Classification and pattern recognition
		5 Statistical inference
		6 Computational statistics and computer aided statistics
		7 Statistical prediction and control
		8 Model selection
		9 Pharmaceutical / genome statistical analysis
		10 Behaviormetrics
		11 Spatial / environmental statistics
		12 Statistics education
		13 Statistical quality control
		14 Statistical learning theory
		15 Social research and analysis plan
		16 Data science

Discipline: Principles of Informatics

Item Number	Research Field	Screening Sub-panel Number / Keyword
1101	Computer system	1 Computer architecture
		2 Circuit and system
		3 LSI design technology
		4 Reconfigurable system
		5 High-dependable architecture
		6 Low power technology
		7 hardware / software co-design
		8 Embedded system

(Discipline: Principles of Informatics)

Item Number	Research Field	Screening Sub-panel Number / Keyword
1102	Software	1 Programming language
		2 Programming methodology
		3 Programming language processor
		4 Parallel distributed computing
		5 Operating system
		6 High-dependable system
		7 Virtualization technology
		8 Software security
		9 Cloud computing infrastructure
		10 Software engineering
		11 Specification and verification
		12 Development environment
		13 Development management
1103	Information network	1 Network architecture
		2 Network protocol
		3 Mobile network
		4 Overlay network
		5 Sensor network
		6 Traffic engineering
		7 Network management technology
		8 Ubiquitous computing
		9 Service provision infrastructure
		10 Information home appliances
1104	Multimedia database	1 Data model
		2 Relational database
		3 Database system
		4 Multimedia information acquisition
		5 Multimedia information processing
		6 Multimedia information representation
		7 Multimedia information generation
		8 Information retrieval
		9 Structured document
		10 Content distribution and management
		11 Geographic information system
		12 Metadata
1105	High performance computing	1 Parallel processing
		2 Distributed processing
		3 Grid and Cloud computing
		4 Numerical analysis
		5 Visualization
		6 Computer graphics
		7 High performance computing application

(Discipline: Principles of Informatics)

Item Number	Research Field	Screening Sub-panel Number / Keyword
1106	Information security	1 Access control
		2 Personal identification
		3 Cryptography
		4 Authentication
		5 Security evaluation / audit
		6 Virus countermeasure
		7 Network security
		8 Unauthorized access countermeasure
		9 Software protection
		10 Privacy protection
		11 Information filtering

(Discipline: Human informatics)

Item Number	Research Field	Screening Sub-panel Number / Keyword
1204	Intelligent informatics	1 Search, logic, inference algorithms
		2 Machine learning
		3 Knowledge acquisition
		4 Knowledge-based system
		5 Intelligent system architecture
		6 Intelligent information processing
		7 Natural language processing
		8 Knowledge discovery and data mining
		9 Ontology
		10 Human-agent interaction
		11 Multi-agent system
1205	Soft computing	1 Neural network
		2 Genetic algorithm
		3 Fuzzy theory
		4 Chaos
		5 Fractal
		6 Complex systems
		7 Probabilistic information processing
1206	Intelligent robotics	1 Intelligent robot
		2 Behavior and environment recognition
		3 Motion planning
		4 Sensory behavior system
		5 Autonomous system
		6 Digital human model
		7 Real world information processing
		8 Physical agents
		9 Intelligent roomAnimation
1207	Kansei informatics	1 Kansei design
		2 Kansei expression
		3 Kansei recognition
		4 Kansei cognitive science, Kansei psychology
		5 Kansei robotics
		6 Kansei measurement evaluation
		7 Ambiguity and kansei
		8 Kansei information processing
		9 Kansei database
		10 Kansei interface
		11 Kansei physiology
		12 Kansei material products
		13 Sensitivity industry
		14 Kansei environmental science
		15 Kansei sociology
		16 Kansei philosophy
		17 Kansei pedagogy
		18 Kansei brain science
		19 Kansei management

Discipline: Human informatics

Item Number	Research Field	Screening Sub-panel Number / Keyword
1201	Cognitive science	1 Evolution, development, learning
		2 Cognition, memory, education
		3 Thought, inference, problem solving
		4 Sensation, perception, kansei
		5 Emotion / Feeling / Behavior
		6 Cognitive psychology
		7 Comparative cognitive psychology
		8 Cognitive philosophy
		9 Brain cognitive science
		10 Cognitive linguistics
		11 Comparative decision making theory
		12 Cognitive engineering
		13 Cognitive archaeology
		14 Cognitive model
		15 Sociability
		16 Law and psychology
		17 Safety and human factor
1202	Perceptual information processing	1 Pattern recognition
		2 Image processing
		3 Computer vision
		4 Computational photography
		5 Human measurement
		6 Intelligent image editing
		7 Visual media processing
		8 Image database
		9 Speech processing
		10 Acoustic information processing
		11 Speech / Sound database
		12 Information sensing
		13 Sensor fusion
		14 Sensing devices / systems
		15 Tangible sensing
1203	Human interface and interaction	1 Human interface
		2 Multi-modal interface
		3 Human-computer interaction
		4 CSCW
		5 Groupware
		6 Virtual reality
		7 Augmented Reality
		8 Mixed reality
		9 Realistic communication
		10 Wearable device
		11 Usability
		12 Ergonomics

Discipline: Frontiers of informatics

Item Number	Research Field	Screening Sub-panel Number / Keyword
1301	Life / Health / Medical informatics	1 Bioinformatics
		2 Genome information processing
		3 Proteome information processing
		4 Computer simulation
		5 Life informatics
		6 Biological information
		7 Neuroinformatics
		8 Neural information processing
		9 Artificial life system
		10 Molecular computing
		11 DNA computing
		12 Medical information
		13 Diagnostic imaging
		14 Remote diagnosis and treatment
		15 Sanitation information
		16 Health information
		17 Medical image
		18 Intracellular logistics analysis
1302	Web informatics, Service informatics	A [Web informatics]
		1 Web system
		2 Web computing
		3 Social web
		4 Semantic web
		5 Recommendation system
		6 Web service
		7 Web mining
		8 Web intelligence
		9 Social network analysis
		10 Network community
		B [Service informatics]
		11 Service engineering
		12 Service management
		13 Quality of Service
		14 Queue
		15 Business model
		16 Service-oriented architecture
		17 Knowledge management
		18 Educational services
		19 Medical welfare service
		20 Intelligent transport systems
		21 Financial service
		22 Social and environmental service
23 Smart grid		
24 Management of technology		

(Discipline: Frontiers of informatics)

Item Number	Research Field	Screening Sub-panel Number / Keyword
1303	Library and information science/ Humanistic social informatics	A [Library and information science]
		1 Library science
		2 Information services
		3 Library information systems
		4 Digital archives
		5 Information organization
		6 Information retrieval
		7 Information media
		8 Bibliometrics and scientometrics
		9 Construction and management of information resources
		B [Humanistic social informatics]
		10 Information ethics
		11 Media environment
		12 Literature information
		13 Historical information
		14 Information sociology
		15 Law information
		16 Information economics
		17 Management information
		18 Educational information
		19 Art information
		20 Medical information
		21 Science and technology information
		22 Intellectual property information
23 Geographic information		
24 Local informatization		
1304	Learning support system	1 Media Literacy
		2 Learning media
		3 Social media
		4 Learning content development support
		5 Learning management system
		6 Intelligent Learning support system
		7 Remote learning
		8 Distributed collaborative learning support system
		9 Project-based learning support system
		10 e-Learning
		11 Use and evaluation
1305	Entertainment and game informatics	1 Music information processing
		2 Performance support
		3 3D content and animation
		4 Game programming
		5 Network entertainment
		6 Media art
		7 Interactive art
		8 Digital archives
		9 Digital museum / Virtual museum
		10 Information culture

Area: Environmental science

Discipline: Environmental analyses and evaluation

Item Number	Research Field	Screening Sub-panel Number / Keyword
1401	Environmental dynamic analysis	1 Environmental change
		2 Biogeochemical cycle
		3 Environmental measurements
		4 Environmental model
		5 Environmental information
		6 Global warming
		7 Global change of water cycle
		8 Environmental monitoring of the polar regions
		9 Chemical oceanography
		10 Biological oceanography
		11 Remote sensing
1402	Risk sciences of radiation and chemicals	1 Environmental radiation
		2 Protection
		3 Basic process
		4 Dosimetry and assessment
		5 Damage
		A 6 Response
		7 Repair
		8 Sensitivity
		9 Impact on life
		10 Risk assessment
		11 Radiation management and control
		B 12 Toxicology
		13 Toxic substance to human
		14 Estimation of trace chemicals pollution
		15 Endocrine disrupting substances
1403	Environmental impact assessment	1 Terrestrial, aquatic, and atmospheric impact assessment
		2 Impact assessment on ecosystem
		3 Impact assessment methods
		4 Impact assessment on human health
		5 Environmental impact assessment on the future generation
		6 Human activities in polar regions
		7 Environmental monitoring
		8 Model simulation
		9 Environmental impact assessment

Discipline: Environmental conservation

Item Number	Research Field	Screening Sub-panel Number / Keyword
1501	Environmental engineering and reduction of environmental burden	1 Reduction of wastewater, exhaust gas and solid wastes
		2 Appropriate treatment and disposal
		3 Closed process and integrated pollution control
		4 Pollutants separation and removal technologies
		5 Control of noise, vibration and ground subsidence
		6 Environmental analysis
		7 Simplified analysis and monitoring
1502	Modeling and technologies for environmental conservation and remediation	1 Environmental impact analysis
		2 Environmental pollution survey and evaluation
		3 Pollutants removal and remediation technologies
		4 Monitoring and modeling of pollutants behavior in environment
		5 Biological treatment and remediation
		6 Impact on environment and ecosystem
		7 Surface water, ground water and soil

(Discipline: Environmental conservation)

Item Number	Research Field	Screening Sub-panel Number / Keyword
1503	Environmental conscious materials and recycle	1 Design and production of recycle materials
		2 Reduction, reuse, recycle (3R)
		3 Recovery of valuables
		4 Separation and purification
		5 Appropriate treatment and disposal
		6 Recycling and life cycle assessment(LCA)
		7 Environmental conscious design
		8 Green productions
		9 Zero-emission
		10 Chemistry for material recycle
1504	Environmental risk control and evaluation	1 Identification and analytical evaluation of pollutants
		2 Monitoring
		3 Transport, diffusion and accumulation of pollutants
		4 Environmental criteria and standards
		5 Life environment and health items
		6 Emission quality standards
		7 Evaluation of cross-border pollution
		8 Chemicals management
		9 Exposure scenario
		10 Risk evaluation
		11 Precautionally principle
		12 Biodegradation and bioaccumulation
		13 Genetic and ecological toxicities
		14 Risk communication

Discipline: Sustainable and environmental system development

Item Number	Research Field	Screening Sub-panel Number / Keyword
1601	Environmental and ecological symbiosis	1 Biodiversity
		2 Ecosystem functions and services
		3 Ecological risks
		4 Ecosystem impact analysis
		5 Ecosystem management and conservation
		6 Remote sensing
		7 Landscape and ecosystem
		8 Rehabilitation of environment ecosystem
		9 Mitigation
		10 Ecological engineering
1602	Design and evaluation of sustainable and environmental conscious system	1 Sound material recycle system
		2 Low carbon society
		3 Renewable energy
		4 Biomass utilization
		5 Design and planning of environmental conscious areas
		6 Water resources and water use system
		7 Industrial symbiosis
		8 Material and energy flow analysis
		9 Life cycle assessment (LCA)
		10 Integrated pollution prevention and control

Area: Complex systems

(Discipline: Sustainable and environmental system development)

Item Number	Research Field	Screening Sub-panel Number / Keyword
1603	Environmental policy and social systems	1 Environmental philosophy and ethics
		2 Environmental justice
		3 Environmental economics
		4 Environmental laws
		5 Environmental information
		6 Environmental geographical information
		7 Environmental education
		8 Environmental management
		9 Environment and social activities
		10 Environmental standard and auditing
		11 Consensus forming
		12 Environmental safety and security
		13 Corporate social responsibility
		14 Social and economical system
		15 Public system and management
		16 Sustainable development

Discipline: Design science

Item Number	Research Field	Screening Sub-panel Number / Keyword
1651	Design science	1 Information design(Communication, media, contents, interaction, interface)
		2 Environmental design (Architecture, Urban, Landscape)
		3 Industrial design (Product design, universal design)
		4 Art
		5 Aesthetics
		6 Design history
		7 Theory for design
		8 Design standard
		9 Design support
		10 3D modeling & acoustic modeling
		11 Analysis & evaluation for design
		12 Design education

Discipline: Human life science

Item Number	Research Field	Screening Sub-panel Number / Keyword
1701	Home economics/ Human life	1 Family resource management
		2 Family finance and consumer issues
		3 Family
		4 Lifestyle
		5 Information for living
		6 Human life and culture
		7 Life of the elderly
		8 Well-being for individual and family
		9 Child care, Child rearing
		10 Home economics education
		11 Consumer education
		12 Philosophy of home economics
		13 Materials and goods for living
		14 Design for living
		15 Manufacturing , Skills of making products for daily life
1702	Clothing life/Dwelling life	1 Human life and clothing
		2 Clothing and environment
		3 Dyeing and finishing treatment
		4 Clothing design and manufacturing
		5 Clothing materials
		6 History of costume
		7 Clothing culture
		8 Clothing psychology
		9 Dwelling life
		10 Planning of housing
		11 Housing management
		12 Housing history
		13 Interior, housing and living environment design
		14 Dwelling environment and equipment
		15 Housing structure and material
		16 City planning and community policy
		17 Child-raising environment
		18 Housing for the elderly
		19 Housing environment for the elderly and people with disabilities
		20 Dwelling culture
		21 Housing information and housing education

(Discipline: Human life science)

Item Number	Research Field	Screening Sub-panel Number / Keyword
1703	Eating habits	A [Food and cooking]
		1 Cooking and processing
		2 Food storage
		3 Sensory evaluation
		4 Food materials
		5 Cooking and functional constituent
		6 Food service
		7 Food culture
		8 Texture
		9 Mastication and swallowing
		B [Diet and health]
		10 Health and dietary life
		11 Diet and nutrition
		12 Dietary education
		13 Dietary habits
		14 Dietary behavior
		15 Dietary information
		16 Food with health claims
		17 Food and environment
18 Diet evaluation		
19 Food management		

Discipline: Science education/Educational technology

Item Number	Research Field	Screening Sub-panel Number / Keyword
1801	Science education	1 Higher education(Mathematics, Physics, Chemistry, Biology, Information science, Astronomy, Earth and planetary science, Interdisciplinary science)
		2 Elementary and secondary education(Arithmetic•Mathematics, Natural science, Information science)
		3 Engineering education
		4 Science literacy
		5 Experiment/Observation
		6 Science education curriculum
		7 Environmental education
		8 Industrial technology education
		9 Science and sociocultural aspect
		10 Science teacher training
		11 Science communication
1802	Educational technology	1 Curriculum/Pedagogy development
		2 Teaching-learning support systems
		3 Distributed collaborative learning system
		4 Human interface
		5 Instructional materials information system
		6 Utilization of media
		7 Distance education
		8 E-learning
		9 Information-related education
		10 Media education
		11 Learning environment
		12 Teacher's education
		13 Classroom instruction

Discipline: Sociology/History of science and technology

Item Number	Research Field	Screening Sub-panel Number / Keyword
1901	Sociology/History of science and technology	1 Sociology of science
		2 History of science
		3 History of technology
		4 Medical history
		5 Industrial archaeology
		6 Philosophy of science/Theory of science
		7 Science, technology and society

Discipline: Cultural assets study and museology

Item Number	Research Field	Screening Sub-panel Number / Keyword
2001	Cultural assets study and museology	1 Dating methods
		2 Material analysis
		3 Production techniques
		4 Conservation science
		A 5 Archaeological prospection
		6 Plant and animal residues/Human remains
		7 Cultural property/Cultural heritage
		8 Cultural resources
		9 Cultural property policy
		10 Museum Informatics
		11 Museum Education, Museum Pedagogy
		12 Museum Information Systems, Museum Informatics
		B 13 Museum Business Management
		14 Public Finance and Administration of Museums
		15 Museum Material Resources
		16 History of Museology

Discipline: Geography

Item Number	Research Field	Screening Sub-panel Number / Keyword
2101	Geography	1 Geography in general
		2 Land use/Landscape
		3 Environmental system
		4 Regional planning
		5 Cartography/Regional geography/Geography education
		6 Geomorphology
		7 Climatology
		8 Hydrology
		9 Geographic information system
		10 Remote sensing
		11 Vegetation/Soil
		12 Tourism

Discipline: Social/Safety system science

Item Number	Research Field	Screening Sub-panel Number / Keyword
2201	Social systems engineering/ Safety system	A [Social systems engineering]
		1 Social engineering
		2 Social system
		3 Policy science
		4 Development planning
		5 Management engineering
		6 Management system
		7 Operations research
		8 Quality control
		9 Industrial engineering
		10 Modeling
		11 Logistics
		12 Marketing
		13 Finance
		14 Project management
		15 Environmental management
		B [Safety system]
		16 Safety engineering
		17 Safety concerning products, facilities, systems
		18 Safety risk management
		19 Crisis management
		20 Fire and explosion prevention and protection
		21 Safety information
		22 Social technology for security (evacuation, mass guidance, information distribution, hazard map)
		23 Risk-based engineering
		24 Engineering diagnosis, regeneration, maintenance management
25 Reliability of machinery and human		
26 Occupational safety and health		

(Discipline: Social/Safety system science)

Item Number	Research Field	Screening Sub-panel Number / Keyword
2202	Natural disaster / Disaster prevention science	A [Earthquake and volcano disaster mitigation]
		1 Seismic motion
		2 Liquefaction
		3 Active fault
		4 Tsunami
		5 Volcanic eruption
		6 Volcanic ejecta/Debris flow
		7 Seismic hazard
		8 Volcanic hazard
		9 Damage prediction/Analysis/Mitigation measures
		10 Disaster mitigation and buildings
		B [Natural disasters]
		11 Meteorological disasters
		12 Hydrological disasters
		13 Geo-hazard
		14 Landslide
		15 Drought
		16 Snow and ice disasters
		17 Natural disaster prediction/Analysis/Measures
		18 Lifeline disaster prevention
		19 Local disaster preparedness plan and policy
20 Rehabilitation and reconstruction engineering		
21 Disaster risk assessment		

(Discipline: Biomedical engineering)

Item Number	Research Field	Screening Sub-panel Number / Keyword
2304	Rehabilitation science/ Welfare engineering	A [Rehabilitation science]
		1 Rehabilitation medicine
		2 Disability science
		3 Physical therapy
		4 Occupational therapy science
		5 Speech language and hearing therapy
		6 Social welfare and health science
		7 Artificial sensory organs
		8 Gerontology
		9 Clinical psychotherapy
		B [Welfare engineering]
		10 Engineering for health and welfare
		11 Technology for activities of daily living
		12 Preventive care/Assistive technology
		13 Normalization
		14 Barrier-free system
		15 Universal design
		16 Robotics for welfare and nursing care
		17 Technology for substituting biological function
		18 Technical aid
19 Human interface		
20 Nursing engineering		

Discipline: Biomedical engineering

Item Number	Research Field	Screening Sub-panel Number / Keyword
2301	Biomedical engineering/ Biomaterial science and engineering	A [Biomedical engineering]
		1 Medical imaging, Bioimaging
		2 Biological modeling, physiome
		3 Biological simulation
		4 Bioinformation and instrumentation
		5 Artificial Organs
		6 Engineering for regenerative medicine
		7 Biological properties
		8 Biomedical control and therapy
		9 Biomechanics
		10 Cell biomechanics
		11 Nano-Bio Systems
		12 Medical Physics
		13 Biomedical Ultrasound
		14 Physiologically active substances application
		15 Bio-inspired system
		16 Radiological Technology and Engineering
		B [Biomaterial science and engineering]
		17 Biomaterials
		18 Biofunctional materials
		19 Cell and Tissue engineering Materials
		20 Biocompatible materials/Biosuitable materials
		21 Nano-biomaterials
		22 Materials for regenerative medicine and engineering
		23 Drug delivery system
24 Stimuli-responsive materials		
25 Materials for genetic and nucleic acid engineering		
2302	Medical systems	1 Medical Ultrasound System
		2 Medical imaging system
		3 Laboratory examination system
		4 Minimally invasive treatment system
		5 Remote diagnosis and treatment system
		6 Organ preservation and treatment system
		7 Medical information system
		8 Computational surgery
		9 Medical robotics
2303	Medical engineering assessment	1 Regulatory Science
		2 Safety validation
		3 Clinical studies
		4 Biomedical engineering ethics
		5 Medical devices

Discipline: Health/Sports science

Item Number	Research Field	Screening Sub-panel Number / Keyword
2401	Developmental mechanisms and the body works	A [Developmental mechanisms and the body works]
		1 Educational physiology
		2 Physical systems science
		3 Biological information analysis
		4 Higher brain function science
		5 Physical growth developmental science
		6 Sensory and motor development studies
		B [Mental and physical education and culture]
		7 Aesthetic education
		8 Physical environment theory
		9 Kinetic theory of leadership
		10 Pedagogy of physical education
		11 Fitness
		12 Cultural theories of physical movement
		13 Philosophy of the body
		14 Life and death education
		15 Psychology of physical education
		16 Affective science
		17 Outdoor education
		18 Dance education
		19 Gender education
		20 Adult life stage elderly gymnastics
21 Martial arts theory		
22 Motion adaptation life science		
2402	Sports science	A [Sports science]
		1 Sports philosophy
		2 Sports history
		3 Sports psychology
		4 Sports science management
		5 Sports pedagogy
		6 Training science
		7 Sports biomechanics
		8 Coaching
		9 Sports talent
		10 Sports for the disabled
		11 Sports sociology
		12 Sports environment
		13 Cultural anthropology of sport
		B [Medical and sport sciences]
		14 Sports physiology
		15 Sports biochemistry
		16 Sports nutrition
		17 Energy metabolism
		18 Training medical science
19 Sports disorders		
20 Doping		

(Discipline: Health/Sports science)

Item Number	Research Field	Screening Sub-panel Number / Keyword
2403	Applied health science	A [Health education/Health promotion activities]
		1 Health education
		2 Health promotion
		3 Safety propulsion/Safety education
		4 Pedagogy of health education
		5 Stress management
		6 Smoking/Drug abuse prevention education
		7 School health
		8 AIDS and sex education
		9 Health management
		10 Health information
		11 Nutritional guidance
		12 Physical and mental health
		13 Leisure/Recreation
		B [Applied medical health]
		14 Lifestyle diseases
		15 Exercise prescription and exercise therapy
		16 Aging
17 Sports medicine		
18 Sports immunology		

Discipline: Childhood science

Item Number	Research Field	Screening Sub-panel Number / Keyword
2451	Childhood science (childhood environment science)	1 Health/Growth
		2 Development/Child care
		3 Exercise/Play
		4 Human rights/Right
		5 Misconduct/Deviation
		6 Social environment
		7 Cultural environment
		8 Physical environment
		9 Educational environment

Discipline: Biomolecular science

Item Number	Research Field	Screening Sub-panel Number / Keyword
2501	Biomolecular chemistry	1 Natural product chemistry
		2 Secondary metabolite
		3 Searching bioactive molecules
		4 Chemical modification of biomolecules
		5 Biological function related substance
		6 Molecular mechanism of activity expression
		7 Biosynthesis
		8 Design and synthesis of bioactive molecule
		9 Combinatorial chemistry
		10 Chemical ecology
		11 Metabolome
2502	Chemical biology	1 In vivo functional expression
		2 Searching medicines
		3 Searching diagnosis chemicals
		4 Searching agricultural chemicals
		5 Chemical library
		6 Structure-activity relationship
		7 Chemical probes
		8 Molecular imaging
		9 Biomolecule measurements
		10 Intracellular chemical reactions
		11 Molecular targeting drugs
		12 Proteomics
13 Directed evolution		

Discipline: Brain sciences

Item Number	Research Field	Screening Sub-panel Number / Keyword
2601	Basic / Social brain science	1 Genome brain science
		2 Epigenetics
		3 Brain molecule profiling
		4 Nano brain science
		5 Chemical biology
		6 Medicinal brain science
		7 Brain function probe
		8 Brain imaging
		A 9 Luminary brain science
		10 Neuron glial cross-interaction
		11 Brain function model animals
		12 Brain function behavioral analysis
		13 Brain and rhythm
		14 Sleep
		15 Neuropsychology/Linguistic science
		16 Neurological science
		17 Science of Dementia
		18 Communication
		19 Human interaction
		20 Social behavior
		21 Development and education
		B 22 Sensibility, affectivity and emotion
		23 Values, reward and punishment
		24 Motivation
		25 Neuroeconomics and neuromarketing
		26 Political brain science
2602	Brain biometrics	1 Brain morphology measurement
		2 Functional /Non-invasive biometry (measurement)
		3 Real time brain blood flow measurement
		4 Brain recordings
		5 Brain information reading (Decoding)
		6 Sensory information
		7 Kinetic (motor) information
		8 Cognitive information
		9 Higher brain function measurement
		10 Brain information processing
		11 Brain function operation
		12 Brain machine interface

Category: Humanities and Social Sciences

Area: Humanities/Social sciences

Discipline: Area studies

Item Number	Research Field	Screening Sub-panel Number / Keyword
2701	Area studies	1 Europe
		2 Russia/Slavic area
		3 North America
		4 Central and South America
		5 East Asia
		6 Southeast Asia
		7 South Asia
		8 West Asia/Central Asia
		9 Africa
		10 Oceania
		11 Global studies
		12 Cross-regional comparative studies
		13 Aid/Regional cooperation

Discipline: Gender

Item Number	Research Field	Screening Sub-panel Number / Keyword
2801	Gender	1 Gender differences/Gender roles
		2 Sexuality
		3 Social thought/Social movements/History
		4 Law/Politics
		5 Economy/Labor
		6 Social policy/Social welfare
		7 Body/Expression/Media
		8 Science and technology/Medicine/Life Science
		9 Education/Human development
		10 Development
		11 Violence/Prostitution
		12 Cross-cultural comparison
		13 Women's studies/Men's studies/Queer studies
		14 Career
		15 Gender equality
		16 Comparative analysis among nations

Area: Humanities

Discipline: Philosophy

Item Number	Research Field	Screening Sub-panel Number / Keyword
2901	Philosophy/ Ethics	1 Principles of philosophy/Specific theories of philosophy
		2 Principles of ethics/Specific theories of ethics
		3 Western philosophy
		4 Western ethics
		5 Japanese philosophy
		6 Japanese ethics
		7 Comparative philosophy
2902	Chinese philosophy/ Indian philosophy/ Buddhist studies	1 Chinese philosophy/Thought
		2 Chinese Buddhism
		3 Taoism
		4 Confucianism
		5 Indian philosophy/Thought
		6 Buddhist studies/History of Buddhism
2903	Religious studies	1 Religious studies in general
		2 History of religions
		3 Sociology of religion
		4 Philosophy of religion
		5 Comparative study of religion
2904	History of thought	1 History of Western thought
		2 History of Eastern and Japanese thought
		3 Comparative history of thought
		4 History of religious thought
		5 History of social thought
		6 History of political thought
		7 History of scientific thought
		8 History of art theory

Discipline: Art studies

Item Number	Research Field	Screening Sub-panel Number / Keyword
3001	Aesthetics and studies on art	1 Aesthetics
		2 Philosophy and theory of art
		3 Musicology and music history
		4 Miscellaneous art studies
3002	Fine art history	1 Japanese and Eastern art history
		2 Western art history
		3 Comparative art history
		4 Iconology and religious art history
		5 Architecture history
		6 History of design, product design and clothing
3003	Art at large	1 Cultural representation studies
		2 Pop culture
		3 Film studies
		4 Performing arts
		5 Policy, arts management and creative industries
		6 Art practice, and musical and other performance
		7 Media arts

Discipline: Literature

Item Number	Research Field	Screening Sub-panel Number / Keyword
3101	Japanese literature	1 Japanese literature in general
		2 Ancient literature (Nara and Heian periods)
		3 Medieval literature (Kamakura and Muromachi periods)
		4 Premodern literature (Edo period)
		5 Modern and contemporary literature (after Meiji Restoration)
		6 Kanbungaku (Chinese literature in Japan)
		7 Bibliography and philology
		8 Literary theory, criticism, and comparative literature

(Discipline: Literature)

Item Number	Research Field	Screening Sub-panel Number / Keyword
3102	Literature in English	1 English literature
		2 American literature
		3 Other literatures in English
		4 Literary theory, criticism, bibliography and philology
		5 Comparative literature
3103	European literature	1 French and Francophone literature
		2 German literature
		3 Russian and East European literature
		4 Other European literature
		5 Western classics
		6 Literary theory, criticism, bibliography and philology
		7 Comparative literature
3104	Chinese literature	1 Chinese literature
		2 Bibliography and philology
		3 Literary theory and criticism
		4 Comparative literature
3105	Literature in general	1 Literary theory and criticism
		2 Comparative literature
		3 Literature in other languages and areas

Discipline: Linguistics

Item Number	Research Field	Screening Sub-panel Number / Keyword
3201	Linguistics	1 Phonetics
		2 Phonology
		3 Morphology
		4 Syntax
		5 Semantics
		6 Pragmatics
		7 Discourse analysis
		8 Scripts and orthography
		9 Lexicography
		10 Sociolinguistics
		11 Psycholinguistics
		12 Biolinguistics
		13 Historical linguistics
		14 French linguistics
		15 German linguistics
		16 Chinese linguistics
		17 Other languages
		18 Endangered and minority languages
		19 Neurolinguistics
		20 Corpus linguistics
3202	Japanese linguistics	1 Phonetics/Phonology
		2 Grammar
		3 Morphology, Semantics
		4 Writing systems
		5 Stylistics
		6 Dialect
		7 Language in daily life
		8 History of the Japanese language
		9 History of Japanese linguistics
3203	English linguistics	1 Phonetics/Phonology
		2 Grammar
		3 Morphology, Semantics
		4 Stylistics
		5 History of the English language
		6 History of English linguistics
		7 Diversity of the English language

(Discipline: Linguistics)

Item Number	Research Field	Screening Sub-panel Number / Keyword
3204	Japanese language education	1 Systems of Japanese language education/ Language policy
		2 Theories on qualified teachers/Classroom research
		3 Teaching methods/Curriculum planning
		4 Theory of second language acquisition
		5 Educational technology/Teaching materials/Educational media in general
		6 Mother tongue retention/Bilingual education
		7 Cross-cultural understanding and intercultural communication
		8 Japanese affairs
		9 History of Japanese language education
		10 Educational testing and evaluation
3205	Foreign language education	1 Teaching methods/Curriculum planning
		2 Educational technology/Teaching materials/Educational media in general
		3 e-Learning/Computer-assisted language learning
		4 Theory of second language acquisition
		5 Early foreign language education
		6 Foreign language education and language policies
		7 Theory and history of foreign language education
		8 Educational testing and evaluation
		9 Training foreign language teachers
		10 Intercultural communication, translation and interpretation

Discipline: History

Item Number	Research Field	Screening Sub-panel Number / Keyword
3301	Historical studies in general	1 World history
		2 History of cultural and diplomatic exchange
		3 Comparative history
		4 Comparative study of civilizations
		5 Globalization
		6 Environmental history
		7 History of islands and oceans
		8 Research in historical materials
3302	Japanese history	1 Ancient history (Nara and Heian periods)
		2 Medieval history (Kamakura and Muromachi periods)
		3 Early modern history (Edo period)
		4 Modern and contemporary history (after the Meiji Restoration)
		5 Local history
		6 Cultural history
		7 Religious history
		8 Environmental history
		9 History of disasters
		10 Urban history
		11 Rural history
		12 Japanese history in general
		13 History of cultural and diplomatic exchange
		14 Research in historical materials

(Discipline: History)

Item Number	Research Field	Screening Sub-panel Number / Keyword
3303	History of Asia and Africa	1 Chinese history (Ancient, medieval, and early modern periods)
		2 Chinese history (Modern and contemporary periods)
		3 East Asian history
		4 Southeast Asian history
		5 Oceanian history
		6 South Asian history
		7 West Asian/Islamic history
		8 Central Eurasian history
		9 African history
		10 Comparative history/History of cultural and diplomatic exchange
		11 Research in historical materials
3304	History of Europe and America	1 Ancient European history
		2 Medieval European history
		3 Modern and contemporary West European history
		4 Modern and contemporary East European history
		5 Modern and contemporary South European history
		6 Modern and contemporary North European history
		7 North and South American history
		8 Comparative history/History of cultural and diplomatic exchange
		9 Research in historical materials
3305	Archaeology	1 Archaeology in general
		2 Prehistoric studies
		3 Historical archaeology
		4 Japanese archaeology
		5 Asian archaeology
		6 Study of ancient civilizations
		7 Study of material culture
		8 Experimental archaeology
		9 Research in buried cultural assets
		10 Archaeological informatics

Discipline: Cultural anthropology

Item Number	Research Field	Screening Sub-panel Number / Keyword
3501	Cultural anthropology	1 Cultural anthropology
		2 Folklore
		3 Ethnography
		4 Social anthropology
		5 Comparative folklore
		6 Material culture
		7 Prehistoric period/Historic period
		8 Arts/Performing arts
		9 Religion/Rituals
		10 Development/Aid
		11 Health care
		12 Migration/Border crossing
		13 Minority
		14 Ecology/Natural environment
		15 Media
		16 Body/ Sport

Discipline: Human geography

Item Number	Research Field	Screening Sub-panel Number / Keyword
3401	Human geography	1 History of geography/Methodology
		2 Economic geography/Transportation geography
		3 Political geography/Social geography
		4 Cultural geography
		5 Urban geography
		6 Rural geography
		7 Historical geography
		8 Regional environment/Natural hazards
		9 Geography education
		10 Regional planning/Regional policy
		11 Regional geography
		12 Geographic information system
		13 History of cartography

Area: Social sciences

Discipline: law

Item Number	Research Field	Screening Sub-panel Number / Keyword
3601	Fundamental law	1 Legal philosophy/Legal theory
		2 Roman law
		3 Legal history
		4 Sociology of law
		5 Comparative law
		6 Foreign law
		7 Law and policy, Legislative studies
		8 Law and economics
3602	Public law	1 Constitutional law
		2 Administrative law
		3 Tax law
		4 Constitutional theory, History of constitution
		5 Constitutional litigation
		6 Comparative constitutional law, EU law
		7 Administrative organization law
		8 Administrative procedure
		9 Administrative remedies
		10 International tax law
3603	International law	1 Public international law
		2 Private international law
		3 International human rights, Nationality law
		4 Law of international organizations
		5 International economic law
		6 International civil procedure
		7 International trade law
3604	Social law	1 Labor law
		2 Economic law
		3 Social security law
		4 Education law
3605	Criminal law	1 Criminal law
		2 Criminal procedure
		3 Criminology
		4 Criminal justice policy
		5 Juvenile law
		6 Law and psychology
3606	Civil law	1 Civil law
		2 Commercial law
		3 Civil procedure
		4 Company law, Business corporate law
		5 Financial law
		6 Securities law
		7 Insurance law
		8 Insolvency law
		9 Alternative dispute resolution
		10 Civil execution law
3607	New fields of law	1 Environmental law
		2 Medical law
		3 Information law, Media law
		4 Intellectual property law
		5 Law and gender
		6 Law and education, Legal profession, Legal teaching
		7 Legal person, Trusts
		8 Consumer law
		9 Traffic law
		10 Land law, Housing law
		11 Judicial system

Discipline: Politics

Item Number	Research Field	Screening Sub-panel Number / Keyword
3701	Politics	1 Political theory
		2 Political methodology
		3 History of Western political thought
		4 History of Japanese and East Asian political thought
		5 Political history
		6 Japanese political history
		7 Japanese politics
		8 Political process
		9 Electoral studies
		10 New institutionalism
		11 Political economy
		12 Public administration
		13 Local government
		14 Comparative politics
		15 Public policy
3702	International relations	1 Theory of international relations
		2 Diplomatic history/International history
		3 Foreign policy
		4 International security
		5 Non-traditional security/ Human security
		6 International political economy
		7 International regime
		8 International integration
		9 International cooperation
		10 International communication
		11 Transnational relations
		12 Global issues
		13 International relations of East Asia
		14 International development cooperation

Discipline: Economics

Item Number	Research Field	Screening Sub-panel Number / Keyword
3801	Economic theory	1 Microeconomics
		2 Macroeconomics
		3 Economic theory
		4 Game theory
		5 Behavioral Economics
		6 Experimental Economics
		7 Evolutionary Economics
		8 Economic Institutions and Systems
3802	Economic doctrine/ Economic thought	1 Economic doctrine
		2 Economic thought
		3 Social thought
		4 Economic Philosophy
3803	Economic statistics	1 Statistical system
		2 Statistical research
		3 Population statistics
		4 Income/Wealth distribution
		5 National accounts
		6 Econometrics
		7 Financial Econometrics
3804	Economic policy	1 International economics
		2 Industrial organization
		3 Economic development
		4 Economic policy
		5 Urban economics
		6 Transportation economics
		7 Regional economics
		8 Environmental economics
		9 Resource economics
		10 Japanese economy
		11 Economic affairs

(Discipline: Economics)

Item Number	Research Field	Screening Sub-panel Number / Keyword
3805	Public finance/ Public economy	1 Public finance
		2 Local government finance
		3 Public economics
		4 Public policy
		5 Health economics
		6 Labor economics
		7 Social security
		8 Education economics
		9 Law and economics
		10 Political economics
3806	Money/ Finance	1 Monetary economics
		2 Finance
		3 International finance
		4 Corporate finance
		5 Insurance
		6 Financial engineering
3807	Economic history	1 Economic history
		2 Business history
		3 Industrial history

Discipline: Management

Item Number	Research Field	Screening Sub-panel Number / Keyword
3901	Management	1 Organizational management
		2 Managerial finance
		3 Management information
		4 Business administration
		5 Corporate social responsibility
		6 Management theory
		7 Corporate strategy
		8 International management
		9 Management of technology
		10 Business ventures
		11 Human resource management
3902	Commerce	1 Marketing
		2 Consumer behavior
		3 Advertising
		4 Distribution and logistics
		5 Marketing research
		6 Commerce
		7 Insurance
3903	Accounting	1 Financial accounting
		2 Managerial accounting
		3 Auditing
		4 Bookkeeping
		5 International accounting
		6 Tax accounting
		7 Governmental accounting
		8 Environmental accounting

Discipline: Sociology

Item Number	Research Field	Screening Sub-panel Number / Keyword
4001	Sociology	1 Social philosophy/Social thought
		2 History of sociology
		3 Sociological Theory / Sociological Methodology
		4 Social System
		5 Social research
		6 Mathematical sociology
		7 Social interaction/Social relations
		8 Social group/Social organization
		9 Institutions/Structure/Social change
		10 Knowledge/Science/Technology
		11 Politics/Power/State
		12 Class/Social status group /Social mobility
		13 Family/Kinship/Population
		14 Community/Village/City
		15 Industry/Labor
		16 Sociology of welfare
		17 Culture/Religion/Social consciousness
		18 Communication/Information/Media
		19 Gender
		20 Education/School
		21 Medical sociology /Disability studies
		22 Social problems/Social movements
		23 Discrimination/Social exclusion
		24 Environment/Pollution
		25 International community/Ethnicity
		26 Body/Sports
		27 Self/Identity
4002	Social welfare and social work studies	1 Principles of social welfare/philosophy of social welfare
		2 Social welfare history
		3 Social security / Social welfare policy
		4 Welfare state/ Welfare society
		5 Social work
		6 Poverty/ Public assistance
		7 Child welfare
		8 Women's welfare/ Feminist social work
		9 Social policy and social work with people with disabilities
		10 Social policy and social work with the elderly
		11 Social work with families
		12 Community work/ community services/community development
		13 Social work in mental health /social work in health care/ care work
		14 Forensic social work/ social work in juvenile delinquency and criminal justice
		15 Management in social work / Advocacy/evaluation
		16 International social work / NGOs in social welfare
		17 Volunteerism / NPOs in social welfare
		18 Social work education/ Field education

Discipline: Psychology

Item Number	Research Field	Screening Sub-panel Number / Keyword
4101	Social psychology	1 Self-processes
		2 Social cognition/Emotion
		3 Attitude/Belief
		4 Social interaction/Interpersonal relations
		5 Interpersonal communication
		6 Group/Leadership
		7 Collective behavior/Social phenomena
		8 Industry/Organization/Personnel
		9 Culture
		10 Social issues
		11 Environment/Environmental problems
		12 Media/Electronic network
		13 Consumer behavior
4102	Educational psychology	1 Development
		2 Parent-child relationship
		3 Developmental disorder
		4 Personality
		5 Teaching Method/Learning
		6 Educational assessment/evaluation
		7 Educational counseling
		8 Interpersonal relations/ behavior
		9 Self-process
		10 School,Class,Teacher
4103	Clinical psychology	1 Psychological disorder
		2 Crime/Delinquency
		3 Psychological assessment
		4 Psychotherapy
		5 Psychological intervention
		6 Nonverbal communication
		7 Counseling
		8 Psychological interviewing process
		9 Case study
		10 Self-help group
		11 Therapist's theory
		12 Community support
		13 Health psychology/Health development
		14 Rehabilitation psychology
4104	Experimental psychology	1 Psycho-physiology
		2 Sensation/Perception/Kansei
		3 Consciousness/Cognition/Attention
		4 Memory
		5 Affection/Emotion/Motivation
		6 Thinking/Reasoning/Language
		7 Learning/Behavior analysis
		8 Evolution/Development/Comparative cognition
		9 Principle/History/Methodology

Discipline: Education

Item Number	Research Field	Screening Sub-panel Number / Keyword
4201	Education	1 Philosophy of education
		2 Educational thought
		3 History of education
		4 Curriculum theory
		5 Instructional theory
		6 Academic achievement theory
		7 Educational methods
		8 Educational evaluation
		9 Teacher education
		10 Administration and finance of education
		11 School management
		12 School education
		13 Early childhood education/Child-care
		14 Lifelong learning
		15 Adult and community education
		16 Education at home
		17 Education policy

(Discipline: Education)

Item Number	Research Field	Screening Sub-panel Number / Keyword
4202	Sociology of education	1 Sociology of education
		2 Economics of education
		3 Anthropology of education
		4 Education policy
		5 Comparative education
		6 Human resource development/Development education
		7 School system/School culture
		8 Teacher/Student culture
		9 Youth problems
		10 Academic achievement problem
		11 Multicultural education
		12 Gender and education
		13 Education survey method
		14 Educational information system
4203	Education on school subjects and activities	1 Education of individual subjects (Japanese, mathematics, science, social studies, geography/History, civics, life environmental studies, music, art, home economics, technology, English, information)
		2 Education of vocational/Professional subject (industry, bussiness, agriculture, fishery, nursing, welfare)
		3 Curriculum composition/development
		4 Materials development
		5 Education excluding subject (global learning, moral, special activities)
		6 Guidance
		7 Career education
		8 Teacher training
4204	Special needs education	1 Education philosophy, Thought and History
		2 Education system, Policy, and Administration
		3 Psychological clinical study and Experiment study
		4 Assessment
		5 Instruction, Support, and Evaluation
		6 Support system and Special needs education coordinator
		7 Consultation and Counseling
		8 Family and advocacy
		9 Cohesive society and School inclusion
		10 Early detection and Early support
		11 Regular classroom and Resource room
		12 Special school for Children with disabilities
		13 Higher education and Career education
		14 Developmental disabilities and Emotional disturbance
		15 Intellectual disabilities
		16 Visual impairments, Deaf and Hard of hearing, and Speech and Language disorders
		17 Physical disorders and Health impairments
		18 Learning difficulties and School maladjustment
		19 Gifted and Talented

Category: Science and Engineering

Area: Interdisciplinary science and engineering

Discipline: Nano/Micro science

Item Number	Research Field	Screening Sub-panel Number / Keyword
4301	Nanostructural chemistry	1 Nanostructural chemistry
		2 Creation of nanostructures
		3 Clusters/Nanoparticles
		4 Fullerenes/Nanotubes/Graphene
		5 Mesoscopic Chemistry
		6 Hierarchical structures/Superstructures
		7 Nanosurfaces/Nanointerfaces
		8 Self-assembly
4302	Nanostructural physics	1 Nanotubes/Graphene
		2 Nanostructure properties
		3 Nanoscale control physics
		4 Nano/Micro physics
		5 Nanoprobes
		6 Quantum information
		7 Quantum effects
		8 Quantum dots
		9 Quantum devices
		10 Electron devices
		11 Spin devices
		12 Nanotribology
4303	Nanomaterials chemistry	1 Creation of nanomaterials
		2 Analysis and characterization of nanomaterials
		3 Nanosurfaces/Nanointerfaces
		4 Functional nanomaterials
		5 Formation/Control of nanostructures
		6 Molecular components
		7 Nanoparticles
		8 Fullerenes/Nanotubes/Graphene
		9 Carbon nanomaterials
		10 Single-molecule chemistry
		11 Nano-optical devices
		12 Molecular devices
4304	Nanomaterials engineering	1 Nano crystalline materials/Composites
		2 Nano particles/Wires/Sheets
		3 Nano dots/Layers
		4 Nano defect control
		5 Hetero/Homo structures
		6 Nano materials /Fabrication process
		7 Nano shaping/Forming process
		8 Nano carbon applications
		9 Nano and micro structural analysis /Evaluation/Testing
4305	Nanobioscience	1 DNA devices
		2 Nanosynthesis
		3 Molecular manipulation
		4 Biochips
		5 Single-molecule biochemistry and physiology
		6 Single-molecule bioinformation science
		7 Single-molecule science
		8 Single-molecule imaging/Nanometrology
		9 Genomic engineering
4306	Nano/Microsystems	1 MEMS·NEMS
		2 Nano/Microfabrication
		3 Nano/Micro-optical devices
		4 Nano/Microchemical systems
		5 Nano/Microbiosystems
		6 Nano/Micromechanics
		7 Nano/Microsensors

Discipline: Applied physics

Item Number	Research Field	Screening Sub-panel Number / Keyword
4401	Applied materials	1 Magnetic material
		2 Superconductor
		3 Dielectric
		4 Optical properties
		5 Micro crystal
		6 Organic molecule
		7 Liquid crystal
		8 New functional materials
		9 Spintronics
		10 Organic/Molecular electronics
		11 Bioelectronics
4402	Crystal engineering	1 Metal
		2 Semiconductor
		3 Amorphous
		4 Crystallite
		5 Ceramics
		6 Crystal growth
		7 Epitaxial growth
		8 Crystal characterization
		9 Heterostructure
		10 Electronic/optical functionality
4403	Thin film/ Surface and interfacial physical properties	1 Ferroelectric thin film
		2 Carbon-related thin film
		3 Oxide electronics
		4 New functional thin film materials
		5 Surface
		6 Interface
		7 Vacuum
		8 Beam application
		9 Scanning probe microscopy
		10 Electron microscopy
4404	Optical engineering, Photon science	1 Optical elements/Instrumentation/Materials
		2 Quantum information processing
		3 Vision
		4 Quantum electronics
		5 Laser
		6 Nonlinear optics
		7 Quantum optics
		8 Photonic crystals
		9 Opto-electronics
		10 Micro-and nano-optics
		11 Optical sensing
		12 Optical recording
		13 Optical controlling
		14 Photo-processing
4405	Plasma electronics	1 Plasma
		2 Plasma processing
		3 Plasma application
		4 Reactive plasma
		5 Plasma chemistry
		6 Plasma treatment
		7 Plasma diagnostics

Area: Mathematical and physical sciences

(Discipline: Applied physics)

Item Number	Research Field	Screening Sub-panel Number / Keyword
4406	General applied physics	1 Mechanics
		2 Thermal engineering
		3 Sounds
		4 Vibration
		5 Electromagnetism
		6 Physical measurements and control
		7 Standards
		8 Sensors
		9 Energy conversion
		10 Radiation
		11 Accelerators

Discipline: Quantum beam science

Item Number	Research Field	Screening Sub-panel Number / Keyword
4501	Quantum beam science	1 Technology of accelerator
		2 Diagnostics for quantum beams
		3 Data processing and analysis
		4 Detectors
		5 Industrial application
		6 Medical application
		7 Compact quantum beam generator
		8 Lasers
		9 X-ray
		10 γ -ray
		11 Synchrotron radiation
		12 Neutron
		13 Muon
		14 Electron, Positron
		15 Neutrino
		16 Ion beam
		17 Proton beam
		18 Other quantum beam

Discipline: Computational science

Item Number	Research Field	Screening Sub-panel Number / Keyword
4601	Computational science	1 Mathematical engineering (mathematical analysis/planning/designing/optimization)
		2 Computational mechanics
		3 Numerical simulation
		4 Multi-scale modeling
		5 Large scale simulation
		6 Parallel Processing, 3D simulation
		7 Numerical simulation methods
		8 Advanced algorithms

Discipline: Mathematics

Item Number	Research Field	Screening Sub-panel Number / Keyword
4701	Algebra	1 Number theory
		2 Arithmetic geometry
		3 Group theory (including representation theory of groups)
		4 Algebraic combinatorics
		5 Algebraic geometry
		6 Ring theory (including Lie algebra theory, representation theory of Lie algebras)
		7 Other algebra (including algebraic analysis, computational algebra, applications of algebra)
4702	Geometry	1 Riemannian geometry (including geometric analysis)
		2 Symplectic geometry (including contact geometry)
		3 Complex geometry
		4 Other differential geometry (including geometric structures, discrete geometry)
		5 Topology (algebraic topology, general topology)
		6 Differential topology (foliations, singularities, topological transformation groups)
		7 Low-dimensional topology (knot theory, 3-dimensional manifolds, 4-dimensional manifolds)
4703	Basic analysis	1 Functional analysis (including operator theory/representation theory)
		2 Operator algebras
		3 Dynamical systems/Integrable systems
		4 Algebraic analysis
		5 Real analysis
		6 Complex analysis
		7 Probability theory
		8 Other basic analysis (including function spaces/foundations of applied analysis)
4704	Mathematical analysis	1 Functional equations
		2 Applied analysis
		3 Nonlinear analysis (including variational analysis/nonlinear phenomena)
4705	Foundations of mathematics/ Applied mathematics	1 Mathematical logic and foundations, Information mathematics
		2 Discrete mathematics
		3 Numerical analysis/ Mathematical models (including prediction Theory, optimization, data analysis)
		4 Statistical mathematics (including game theory, design of experiments, convex programming problems, decision theory, estimation theory, testing theory, estimation of stochastic processes)
		5 Other applied mathematics

Discipline: Astronomy

Item Number	Research Field	Screening Sub-panel Number / Keyword
4801	Astronomy	1 Optical/Infrared astronomy
		2 Radio astronomy
		3 Solar physics
		4 Astrometry
		5 Theoretical astronomy
		6 X-ray/ γ -ray astronomy

Discipline: Physics

Item Number	Research Field	Screening Sub-panel Number / Keyword
4901	Particle/ Nuclear/ Cosmic ray/ Astro physics	1 Particle physics (theory)
		2 Nuclear physics (theory)
		3 Cosmic ray physics (theory)
		4 Astrophysics (theory)
		5 Cosmology/Gravitation (theory)
		6 Particle physics (experiment)
		7 Nuclear physics (experiment)
		8 Cosmic ray physics (experiment)
		9 Astrophysics (experiment)
		10 Cosmology/Gravitation (experiment)
		11 Accelerator technology
		12 Particle detectors
4902	Condensed matter physics I	1 Semiconductors
		2 Mesoscopic system/Localization
		3 Optical properties
		4 Surface/Interface
		5 Crystal growth
		6 Dielectrics
		7 Lattice defects
		8 X-ray/Particle beam
		9 Phonon properties
		10 Spin properties(semiconductor)
4903	Condensed matter physics II	1 Magnetism
		2 Magnetic resonance
		3 Strongly-correlated system
		4 High temperature superconductivity
		5 Metal
		6 Ultralow temperature/Condensed quantum system
		7 Superconductivity/Density wave system
		8 Molecular solid/Organic conductor
4904	Mathematical physics/ Fundamental condensed matter physics	1 Statistical physics
		2 Fundamental condensed matter theory
		3 Mathematical physics
		4 Integrable system
		5 Non-equilibrium/Nonlinear physics
		6 Applied mathematics
		7 Dynamics
		8 Fluid physics
		9 Disordered system
		10 Computational physics
4905	Atomic/ Molecular/ Quantum electronics	1 Atom/Molecule
		2 Quantum electronics
		3 Quantum information
		4 Radiation
		5 Beam physics
4906	Biological physics/ Chemical physics/Soft matter physics	1 Physics of living phenomena
		2 Physics of biomolecules
		3 Mathematical biology
		4 Glass•Liquid•Solution
		5 Optical response•Photosynthesis•Chemical reaction
		6 Polymer•Liquid crystal•Gel
		7 Emulsion•Membrane•Colloid
		8 Interface•Wetting•Adhesion•Fracture
		9 Biophysics(general)
		10 Chemical physics(general)
		11 Soft matter physics(general)

Discipline: Earth and planetary science

Item Number	Research Field	Screening Sub-panel Number / Keyword
5001	Solid earth and planetary physics	1 Earthquake phenomena
		2 Volcanic phenomena
		3 Prediction of earthquakes and volcanic eruptions
		4 Earthquake and volcanic disasters
		5 Crustal movement/Sea floor crustal movement
		6 Geomagnetism
		7 Gravity
		8 Tectonics
		9 Internal structure
		10 Earth interior dynamics/Mineral physics
		11 Solid planets/Satellite/Asteroid
		12 Planet formation and evolution
		13 Exploration of solid planets
		14 Observation methods
5002	Meteorology/ Physical oceanography/ Hydrology	1 Meteorology
		2 Climatology
		3 Planetary atmospheres
		4 Air-sea interaction
		5 Geophysical fluid dynamics
		6 Physical oceanography
		7 Global environmental system
		8 Land-area water cycle/Material circulation
		9 Water budget
5003	Space and upper atmospheric physics	1 Terrestrial and planetary magnetospheres
		2 Geomagnetic variation
		3 Terrestrial and planetary ionospheres
		4 Terrestrial and planetary upper atmospheres
		5 Aurora/Magnetic storm
		6 Solar wind/Interplanetary space
		7 Solar-terrestrial system/Space weather
		8 Space plasma/Plasma wave
		9 Planetary plasma/Planetary atmosphere exploration
5004	Geology	1 Regional geology
		2 Marine geology
		3 Accretionary prism/Orogenic belt
		4 Structural geology/Tectonics
		5 Volcanoes/Active faults/Geologic hazards
		6 Environmental geology/Hydraulic geology
		7 Quaternary study
		8 Applied geology/Urban geology
		9 Sedimentology/Energy resource geology
		10 Earth history/Planetary geology
		11 Geoinformatics
		12 History of geoscience
5005	Stratigraphy/ Paleontology	1 Stratigraphic succession
		2 Fossil
		3 Phylogeny/Evolution/Diversity
		4 Function/Morphology
		5 Paleogeology
		6 Paleobiogeography
		7 Paleoenvironment
		8 Paleo-ocean
5006	Petrology/ Mineralogy/ Economic geology	1 Earth and planetary materials
		2 Earth and planetary evolution
		3 Crust/Mantle/Core
		4 Magma/Igneous rocks
		5 Metamorphic rocks
		6 Mineral physics
		7 Natural and artificial crystals
		8 Elemental fractionation
		9 Ore deposition
		10 Mineral resources
		11 Biogenic and environmental minerals

Area: Chemistry

(Discipline: Earth and planetary science)

Item Number	Research Field	Screening Sub-panel Number / Keyword
5007	Geochemistry/ Cosmochemistry	1 Earth and extraterrestrial materials
		2 Material recycling
		3 Distribution of elements and molecules
		4 Isotope/Radiometric dating
		5 Cosmochemistry
		6 Chemistry of the crust and mantle
		7 Organic geochemistry
		8 Biosphere geochemistry
		9 Atmospheric and hydrospheric geochemistry
		10 Environmental/geo-environmental chemistry
		11 Analytical methods

Discipline: Plasma science

Item Number	Research Field	Screening Sub-panel Number / Keyword
5101	Plasma science	1 Basic plasma physics and electric discharges
		2 Space and astrophysical plasmas
		3 Burning plasma
		4 High energy density physics
		5 Complex plasmas
		6 Reactive plasmas
		7 Plasma chemistry
		8 Plasma applications
		9 Plasma diagnostics
		10 Plasma control /Laser
		11 Plasma acceleration
		12 Plasma application to beam physics
		13 Plasma application to mm and THz waves

Discipline: Basic chemistry

Item Number	Research Field	Screening Sub-panel Number / Keyword
5201	Physical chemistry	1 Structural chemistry
		2 Electronic state
		3 Molecular dynamics
		4 Chemical reaction
		5 Reaction dynamics
		6 Molecular spectroscopy
		7 Surface/Interface
		8 Solution
		9 Cluster
		10 Theoretical chemistry
		11 Biophysical chemistry
5202	Organic chemistry	1 Structural organic chemistry
		2 Organic reaction chemistry
		3 Synthetic organic chemistry
		4 Organoelement chemistry
		5 Organic photochemistry
		6 Physical organic chemistry
		7 Theoretical organic chemistry
5203	Inorganic chemistry	1 Metal complex chemistry
		2 Organometallic chemistry
		3 Inorganic solid-state chemistry
		4 Bioinorganic chemistry
		5 Nuclear/Radiochemistry
		6 Supramolecular complexes
		7 Multinuclear/Cluster complexes
		8 Coordination polymers
		9 Solution chemistry
		10 Nanomaterials
		11 Crystal structure
		12 Catalysts
		13 Element resources

Discipline: Applied chemistry

Item Number	Research Field	Screening Sub-panel Number / Keyword
5301	Functional solid state chemistry	1 Optical properties
		2 Electronic properties
		3 Electron spin
		4 Integrated properties
		5 Molecular devices
		6 Supramolecules
		7 Liquid crystals
		8 Crystals
		9 Thin films
		10 Surface/Interface
		11 Colloids/Quantum dots
		12 Electrochemistry
5302	Synthetic chemistry	1 Selective synthesis
		2 Complex/Organometallic catalysis
		3 Fine chemicals
		4 Asymmetric synthesis
		5 Catalyst design/reaction
		6 Environmentally benign synthesis
		7 Reaction field
		8 Automatic synthesis
		9 Biomimetic synthesis
		10 Combinatorial synthesis
		11 Organocatalyst
12 Natural product synthesis		
13 Synthetic resources		

(Discipline: Applied chemistry)

Item Number	Research Field	Screening Sub-panel Number / Keyword
5303	Polymer chemistry	1 Polymer synthesis
		2 Polymer reaction/degradation
		3 Asymmetric polymerization
		4 Self-assembled polymers
		5 Polymer structure
		6 Polymer properties
		7 Functional polymers
		8 Bio-related polymers
		9 Polymer complex
		10 Polymer thin film/surface
		11 Polymerization catalyst
		12 Polymer resources
5304	Analytical chemistry	1 Sampling/Pretreatment
		2 Solvent/solid-phase extraction
		3 Instrumental analysis
		4 Spectrometric analysis
		5 Laser spectroscopy
		6 Mass spectrometry
		7 X-ray/electron spectroscopy
		8 Surface/particulate analysis
		9 Electrochemical analysis
		10 Chemical/bio sensor
		11 Separation analysis
		12 Chromatography
		13 Electrophoresis
		14 Flow analysis (FIA)
		15 Microchannel analysis
		16 Analytical reagent
		17 Environmental analysis
		18 Organic/polymer analysis
		19 Bioanalysis
5305	Bio-related chemistry	1 Nucleic acid chemistry
		2 Proteins and enzymes
		3 Sugar chemistry
		4 Natural products chemistry
		5 Bio-inorganic chemistry
		6 Bio-related chemistry
		7 Molecular recognition
		8 Bio-functional chemistry
		9 Biotechnology
		10 Biocatalysts
		11 Biofunctional materials
		12 Bio-structural chemistry
5306	Green/ Environmental chemistry	1 Environmental analysis
		2 Sensor/monitoring
		3 Pollutant evaluation
		4 Pollution indicator
		5 Environment assessment
		6 Environmental information chemistry
		7 Pollutant
		8 Decontamination material
		9 Environmental road-reducing substance
		10 Biodegradable substance
		11 Environmental restoration material
		12 Green chemistry
		13 Sustainable chemistry
		14 Recycle
		15 Element recovery
		16 Safety chemistry
		17 Resource analysis

(Discipline: Applied chemistry)

Item Number	Research Field	Screening Sub-panel Number / Keyword
5307	Energy-related chemistry	1 Energy conversion
		2 Low-carbon Chemistry
		3 High-functional catalysts
		4 Photocatalysts
		5 Molecular devices and materials
		6 Energy resources
		7 Energy conservation chemistry

Discipline: Materials chemistry

Item Number	Research Field	Screening Sub-panel Number / Keyword
5401	Organic and hybrid materials	1 Liquid crystals
		2 Crystals
		3 Organic semiconductor materials
		4 Organic optical materials
		5 Organic/inorganic hybrid materials
		6 Molecular device materials
		7 Other functional materials
5402	Polymer/ Textile materials	1 Properties of polymer materials
		2 Synthesis of polymer materials
		3 Textiles
		4 Rubbers
		5 Gel
		6 Functional polymer materials
		7 Biopolymers
		8 Polymer alloy
		9 Polymer composites
		10 Polymer/Textile processing
5403	Inorganic industrial materials	1 Crystals
		2 Glass
		3 Ceramics
		4 Metals
		5 Layered/Intercalation compounds
		6 Ion exchangers
		7 Ionic conductors
		8 Photocatalysts
		9 High-functional catalysts
		10 Electrochemical materials
		11 Nanoparticle/Quantum dots
		12 Porous materials
5404	Device related chemistry	1 Semiconductor devices
		2 Electrical, magnetical and optical devices
		3 Biofunctional devices
		4 Batteries
		5 Molecular sensors

Area: Engineering

Discipline: Mechanical engineering

Item Number	Research Field	Screening Sub-panel Number / Keyword
5501	Materials/ Mechanics of materials	1 Material design/Process/Mechanical properties/Evaluation
		2 Continuum mechanics
		3 Structural mechanics
		4 Damage mechanics
		5 Fracture
		6 Fatigue
		7 Environments
		8 Reliability
		9 Biomechanics
		10 Nano/Micro material mechanics
		11 Bio material mechanics
5502	Production engineering/ Processing studies	1 Modeling for production
		2 Production Systems
		3 Production management
		4 Process design
		5 Machine tools
		6 Forming process
		7 Cutting/Grinding process
		8 Special processing
		9 Ultraprecision machining
		10 Nano/Micro machining
		11 Precise positioning/Measurements
5503	Design engineering/ Machine functional elements/ Tribology	1 Design engineering
		2 Shape modeling
		3 CAD•CAM•CAE
		4 Synectics
		5 Dynamics of mechanisms
		6 Machine elements
		7 Functional components
		8 Failure diagnostics
		9 Safety design
		10 Life cycle analysis and design
		11 Recycle design
		12 Tribology
		13 Nano/Micro tribology
5504	Fluid engineering	1 Computational fluid dynamics
		2 Flow measurements
		3 Compressible/Incompressible flow
		4 Turbulent flow
		5 Multi-phase flow
		6 Reacting flow
		7 Non-Newtonian flow
		8 Micro flow
		9 Molecular fluid dynamics
		10 Bio-fluid mechanics
		11 Environmental fluid mechanics
		12 Acoustics
		13 Fluid machinery
		14 Fluid power systems
5505	Thermal engineering	1 Thermophysical property
		2 Convection
		3 Heat conduction
		4 Thermal radiation
		5 Mass transfer
		6 Combustion
		7 Nano/Micro thermal engineering
		8 Thermal engine
		9 Refrigeration/Air conditioning
		10 Heat transfer equipment
		11 Energy engineering
		12 Bio thermal engineering

(Discipline: Mechanical engineering)

Item Number	Research Field	Screening Sub-panel Number / Keyword
5506	Dynamics/ Control	1 Dynamics
		2 Dynamic design
		3 Vibration mechanics
		4 Vibration analysis/tests
		5 Control instrument
		6 Motion control
		7 Vibration control
		8 Mechanical measurements
		9 Aseismic/Seismic isolation design
		10 Vehicle and transport system control
		11 Acoustic information/Acoustical control
		12 Acoustic energy
5507	Intelligent mechanics/ Mechanical systems	1 Robotics
		2 Mechatronics
		3 Nano/Micro mechatronics
		4 Biomechanics
		5 Softmechanics
		6 Information equipment/Intelligent (smart) machine systems
		7 Precision mechanics and systems
		8 Human-machine systems
		9 Information systems

Discipline: Electrical and electronic engineering

Item Number	Research Field	Screening Sub-panel Number / Keyword
5601	Power engineering/ Power conversion/ Electric machinery	1 Electrical energy engineering (generation/conversion/storage, and energy conservation)
		2 Power system engineering
		3 Electric machinery
		4 Power electronics
		5 Effective utilization of electric energy
		6 Electric/Electromagnetic compatibility
		7 Illumination/Lighting
5602	Electronic materials/ Electric materials	1 Electrical and electronic materials(semiconductor, dielectric,magnetic, ferro-dielectric,organic,insulator, superconductor,etc.)
		2 Thin film/Quantum structure
		3 Thick film
		4 Fabrication/Characterization method
5603	Electron device/ Electronic equipment	1 Electron device/Integrated circuits
		2 Circuit design/Computer aided circuit design (CAD)
		3 Optical devices and circuits
		4 Quantum devices/Spintronic devices
		5 Microwave/Millimeter wave/Terahertz wave
		6 Wave technology and applications
		7 Bio devices
		8 Information storage/record
		9 Display
		10 Sensing devices
		11 Micro fabrication process technology
		12 Interconnect,packaging and system integration
5604	Communication/ Network engineering	1 Electronic circuits and systems
		2 Nonlinear theory/circuits
		3 Information theory
		4 Signal processing
		5 Communication systems (wireless, wired, satellite, optical and mobile)
		6 Modulation/Demodulation
		7 Coding/Decoding
		8 Protocol
		9 Antennas
		10 Routing/Switching
		11 Networks/Local area networks (LAN)
		12 Multimedia
		13 Cryptography/Security

(Discipline: Electrical and electronic engineering)

Item Number	Research Field	Screening Sub-panel Number / Keyword
5605	Measurement engineering	1 Measurement technology
		2 Measuring/Analyzing instruments
		3 Measurement systems
		4 Signal processing
		5 Sensing information processing
5606	Control engineering/ System engineering	1 Control theory
		2 System theory
		3 Knowledge-based control
		4 Control technology
		5 Control systems
		6 Complex systems
		7 System information (knowledge) processing
		8 Social systems engineering
		9 Management systems engineering
		10 Environmental systems engineering
		11 Production systems engineering
		12 Biosystems engineering

(Discipline: Civil engineering)

Item Number	Research Field	Screening Sub-panel Number / Keyword
5706	Civil and environmental engineering	1 Environmental planning and management
		2 Environmental systems
		3 Environmental conservation
		4 Water and wastewater systems
		5 Domestic and industrial wastes
		6 Soil and water environments
		7 Atmospheric circulation/Noise and vibration
		8 Ecological engineering

Discipline: Civil engineering

Item Number	Research Field	Screening Sub-panel Number / Keyword
5701	Civil engineering materials/ Construction/ Construction management	1 Concrete
		2 Steel
		3 Polymeric materials
		4 Composite material/New materials
		5 Timber
		6 Construction
		7 Pavement/Bituminous materials
		8 Maintenance/Management
		9 Construction business plan/Construction design
		10 Construction management
		11 Underground space
		12 Civil engineering informatics
5702	Structural engineering/ Earthquake engineering/ Maintenance management engineering	1 Applied mechanics
		2 Structural engineering
		3 Steel structure
		4 Concrete structure
		5 Hybrid structure
		6 Wind engineering
		7 Earthquake engineering
		8 Earthquake resistant structure
		9 Earthquake disaster prevention
		10 Maintenance engineering
5703	Geotechnical engineering	1 Soil mechanics
		2 Foundation engineering
		3 Rock engineering
		4 Engineering geology
		5 Ground behavior
		6 Ground and structure
		7 Geotechnical disaster prevention
		8 Geo-environmental engineering
		9 Tunnel engineering
5704	Hydraulic engineering	1 Hydraulics
		2 Environmental hydraulics
		3 Hydrology
		4 River engineering
		5 Water resources engineering
		6 Coastal engineering
		7 Port engineering
		8 Ocean engineering
5705	Civil engineering project/ Traffic engineering	1 Infrastructure planning
		2 Regional/Urban planning
		3 Nationwide spatial planning
		4 Disaster prevention planning/Environmental planning
		5 Transportation planning
		6 Traffic engineering
		7 Railway engineering
		8 Surveying/Remote sensing
		9 Landscape architecture/Design
		10 Infrastructure history

Discipline: Architecture and building engineering

Item Number	Research Field	Screening Sub-panel Number / Keyword
5801	Building structures/ Materials	1 Load theory
		2 Structural analysis
		3 Structural design
		4 Concrete structure
		5 Steel structure
		6 Timber structure
		7 Composite structure
		8 Foundation
		9 Structural material
		10 Building construction method
		11 Maintenance technology
		12 Earthquake disaster prevention
		13 Structure control
		14 Earthquake resistant design
		15 Wind resistant design
5802	Architectural environment/ Equipment	1 Sound/Vibration environment
		2 Light environment
		3 Heat environment
		4 Air environment
		5 Environmental equipment planning
		6 Environmental psychology/physiology
		7 Building equipment
		8 Fire engineering
		9 Global/Urban environment
		10 Environment designing
5803	Town planning/ Architectural planning	1 Planning theory
		2 Design theory
		3 Housing theory
		4 Building types/District facilities
		5 Urban/Regional planning
		6 Administration/System
		7 Building/Urban economy
		8 Production management
		9 Disaster prevention planning
		10 Landscape/Environmental planning
5804	Architectural history/Design	1 Architectural history
		2 Urban history
		3 Architectural theory
		4 Design
		5 Style
		6 Landscape/Environment
		7 Preservation/Renovation

Discipline: Material engineering

Item Number	Research Field	Screening Sub-panel Number / Keyword
5901	Physical properties of metals/Metal-base materials	1 Electronic/Magnetic properties
		2 Mechanical/Thermal/Optical properties
		3 Properties of surfaces/Interfaces/Thin films
		4 Magnetic/Electronic/Information Materials
		5 Superconductors/Semiconductors
		6 Amorphous/Metallic glasses/Quasicrystals
		7 First principles calculations/Material design simulations
		8 Atomic/Electronic structural characterization
		9 Diffusion/Phase transformation/Phase diagrams

(Discipline: Material engineering)

Item Number	Research Field	Screening Sub-panel Number / Keyword
5902	Inorganic materials/ Physical properties	1 Crystal structure/Microstructure control
		2 Mechanical/Electronic/Electromagnetic/Optical /Thermal properties
		3 Surface/Interface control
		4 Functional ceramics
		5 Functional glasses
		6 Structural ceramics
		7 Carbon materials
		8 Dielectric materials
		9 Inorganic material synthesis and process
5903	Composite materials/ Surface and interface engineering	1 Functional composites
		2 Structural composites
		3 Hybrid/Smart/Biomaterials
		4 Surface/Interface/Grain boundary control
		5 Plasma/Laser/Surface treatment and process
		6 Durability/Environmental degradation/Monitoring/Evaluation
		7 Bonding/Adhesion/Welding
		8 Recyclable bonding/Composites
		9 Design/Fabrication process/Forming
		10 Complex polymer
5904	Structural/ Functional materials	1 Strength/Fracture toughness
		2 Reliability
		3 Energy materials
		4 Fuel cell/Electric cell materials
		5 Sensor materials/Optical functional materials
		6 Biomaterials/Medical materials/Welfare materials
		7 Multifunctional materials
		8 Infrastructure materials
		9 Functional polymeric materials
5905	Material processing/ Microstructural control engineering	1 Plastic forming/Shaping
		2 Mechanical/Thermal treatments
		3 Precision/Non-conventional process
		4 Crystal structure/Microstructure control
		5 Electrochemical process
		6 Powder process/Powder metallurgy
		7 Thin film/Plating/Wiring process
		8 Electrocatalysis
5906	Metal making/ Resource production engineering	1 Reaction/Separation/Refining
		2 Melting/Solidification
		3 Casting
		4 Crystal growth/Fabrication
		5 Various manufacturing process
		6 Ecological materials/Energy saving process
		7 Process for scarce resource substitution/Ubiquitous materials
		8 Environmental purification/Low environmental burden/Sustainable materials
		9 Recycling/Recycling process/Reuse/Transduction
		10 Resource separation/Safeguard/Securing

Discipline: Process/Chemical engineering

Item Number	Research Field	Screening Sub-panel Number / Keyword
6001	Properties in chemical engineering process/ Transfer operation/ Unit operation	1 Equilibrium/Transport properties
		2 Fluid/Heat transfer/Mass transfer operation
		3 Distillation
		4 Extraction
		5 Absorption
		6 Adsorption
		7 Ion exchange
		8 Membrane separation
		9 Hetero-phase separation
		10 Ultra high separation
		11 Stirring/Blending operation
		12 Granular and powdered materials operation
		13 Crystallization procedure
		14 Thin film/Microparticle forming operation
		15 Polymer processing

(Discipline: Process/Chemical engineering)

Item Number	Research Field	Screening Sub-panel Number / Keyword
6002	Reaction engineering/ Process system	1 Gas/Liquid/Solid/Supercritical fluid operation
		2 Novel reaction field
		3 Reaction rate
		4 Reaction mechanism
		5 Reaction apparatus
		6 Materials synthesis process
		7 Polymerization process
		8 Measurement
		9 Sensors
		10 Process control
		11 Processing system design
		12 Process information processing
		13 Process operation/Facilities management
6003	Catalyst/ Resource chemical process	1 Catalysis reaction
		2 Catalyst preparation chemistry
		3 Catalyst performance analysis
		4 Energy conversion process
		5 Fossil fuel effective utilization technology
		6 Resources/Energy effective utilization technology
		7 Resources/Energy saving technology
		8 Combustion technology
6004	Biofunction/ Bioprocess	1 Biocatalyst engineering
		2 Biofunction engineering
		3 Food engineering
		4 Medicochemical engineering
		5 Bioproduction process
		6 Environmental Bioprocess
		7 Micro/Nano Bioprocess
		8 Applied bioelectrochemistry
		9 Bioreactor
		10 Biosensor
		11 Bioseparation
		12 Biorefinery
		13 Bioinformatics

Discipline: Integrated engineering

Item Number	Research Field	Screening Sub-panel Number / Keyword
6101	Aerospace engineering	1 Aerodynamics
		2 Structure/Material
		3 Vibration/Strength
		4 Guidance/Navigation/Control
		5 Propulsion/Engine
		6 Flight dynamics
		7 Aerospace system
		8 Design/Instrumentation
		9 Special aircraft
		10 Space utilization/Exploration
		11 Aerospace environment
6102	Naval and maritime engineering	1 Propulsion/Vessel dynamics
		2 Material/Structural mechanics
		3 Ship and marine hydrodynamics
		4 Planning/Design/Production system
		5 Shipbuilding/Equipment
		6 Maritime transportation system
		7 Marine engine/Fuel
		8 Marine environment
		9 Marine resources/Energy
		10 Ocean exploration/Equipment
		11 Undersea and subsea engineering
		12 Polar engineering
13 Maritime systems		

(Discipline: Integrated engineering)

Item Number	Research Field	Screening Sub-panel Number / Keyword
6103	Earth system and resources engineering	1 Applied geology
		2 Geo-engineering
		3 Remote sensing
		4 Monitoring in Geo-engineering
		5 Earth systems
		6 Resource exploration
		7 Natural resource development
		8 Resource evaluation
		9 Mineral processing
		10 Underground disposal and storage
		11 Contaminated soil remediation
		12 Development and utilization of deep underground
		13 Material resources
		14 Renewable source/Energy
		15 Economic resources
6104	Nuclear fusion studies	1 Core plasma
		2 Peripheral/divertor plasma
		3 Plasma measurement
		4 Fusion theory/simulation
		5 Plasma-wall interaction
		6 Plasma facing component/Plasma heating device
		7 Fuel/Blanket
		8 Low activation material
		9 Electromagnet
		10 Inertial confinement fusion
		11 Fusion systems engineering
		12 Safety/Biological influence/Social environment
6105	Nuclear engineering	1 Radiation engineering/Beam science
		2 Reactor physics/Nuclear data
		3 Nuclear measurements/Radiation physics
		4 Thermo-Hydrodynamics
		5 Structure
		6 System design/Safety engineering
		7 Nuclear material/Nuclear fuel
		8 Isotope/Radiation chemistry
		9 Fuel cycle
		10 Backend
		11 Advanced reactors
		12 Health physics/Environmental safety
		13 Social environment of nuclear energy
6106	Energy engineering	1 Energy generation/conversion
		2 Energy transport/storage
		3 Energy saving/Efficient use of energy
		4 Energy system
		5 Environmental harmony
		6 Natural energy use

Category: Biological Sciences

Area: Biological Sciences

Discipline: Neuroscience

Item Number	Research Field	Screening Sub-panel Number / Keyword
6201	Neurophysiology / General neuroscience	1 Molecular and cellular neuroscience
		2 Developmental and regenerative neuroscience
		3 Neuroendocrinology
		4 Clinical neuroscience
		5 Neuroinformatics
		6 Behavioral neuroscience
		7 Computational neuroscience
		8 (Nervous) System physiology
		9 Somatic, visceral or special sensation
6202	Nerve anatomy/ Neuropathology	A [Neuroanatomy]
		1 Neural network
		2 Neurohistology
		3 Molecular neurobiology
		4 Neural fine structure
		5 Neurohistochemistry and neurocytochemistry
		6 Neural development and its abnormality
		7 Neural regeneration, remodeling and plasticity
		8 Experimental morphology of the nervous system
		9 Anatomical study of neuroimaging
		10 Neurocytology
		B [Neuropathology]
		11 Cellular neuropathology
		12 Molecular neuropathology
		13 Neurodegenerative diseases
		14 Developmental or metabolic disorders
		15 Demented disorders
		16 Cerebrovascular disorders
17 Brain tumors		
18 Spinal, peripheral nervous system or muscular disorders		
6203	Neurochemistry/ Neuropharmacology	1 Molecular and cellular neurobiology
		2 Development, differentiation, and aging
		3 Neurotransmitters and receptors
		4 Intracellular signal transduction
		5 Glial cells
		6 Pathophysiology and therapy of neuropsychiatric diseases
		7 Stem cell biology, regeneration, and repair
		8 Neural plasticity
		9 Neuropharmacology
		10 Drug development
		11 Genomic neuroscience

Discipline: Laboratory animal science

Item Number	Research Field	Screening Sub-panel Number / Keyword
6301	Laboratory animal science	1 Environmental facilities
		2 Infectious diseases
		3 Cryopreservation
		4 Biosafety
		5 Disease models
		6 Breeding genetics
		7 Developmental engineering
		8 Laboratory animal welfare
		9 Animal experiment technology
		10 Bioresource for research
		11 Evaluation methods

Discipline: Oncology

Item Number	Research Field	Screening Sub-panel Number / Keyword
6401	Tumor biology	1 Genome instability
		2 Epigenetics
		3 Cancer genome analysis
		4 Carcinogenesis
		5 Inflammation and cancer
		6 Laboratory animal models
		7 Genetically-modified animals
		8 Oncogene
		9 Tumor suppressor gene
		10 Signal transduction
		11 DNA replication
		12 Cell cycle
		13 Cancer and heredity
		14 Apoptosis
		15 Cell polarity
		16 Cell adhesion and movement
		17 Invasion and metastasis
		18 Characteristics of cancer cells
		19 Cancer microenvironment
		20 Angiogenesis
		21 Lymphangiogenesis
		22 Stem cells
		23 Cellular senescence
		24 Cellular immortalization
		25 Epidemiologic study
		26 Biobank
		27 Interaction of gene and environment
		28 Prevention and intervention study
		29 Chemoprophylaxis
		30 Interface of cancer research and society
6402	Tumor diagnostics	1 Genome analysis
		2 Proteomics analysis
		3 Expression analysis
		4 Individuality diagnosis of cancer
		5 Order-made medical treatment
		6 Drug efficacy and calculation
		7 Biomarkers
		8 Tumor markers
		9 Molecule imaging
		10 Epigenome
		11 miRNA
		12 Functional RNA
6403	Tumor therapeutics	1 Antitumor substance research and chemical biology
		2 Chemotherapy
		3 Molecular target therapy
		4 Endocrine therapy
		5 Drug delivery
		6 Physical therapy
		7 Gene therapy
		8 Nucleic acid therapy
		9 Cell therapy
		10 Humoral immunity
		11 Cell immunity
		12 Antibody therapy
		13 Immunotherapy
		14 Vaccine therapy
		15 Adoptive immunotherapy
		16 Cytokine
		17 Immunosuppression
		18 Immune activation

Area: Biology

Discipline: Genome science

Item Number	Research Field	Screening Sub-panel Number / Keyword
6501	Genome biology	1 Genome structural diversity
		2 Animal genome
		3 Plant genome
		4 Microbial genome
		5 Metagenome
		6 Organelle genome
		7 Genome evolution
		8 Genome architecture
		9 Genome maintenance and repair
		10 Expression of genome function
		11 Regulation of gene expression
		12 Transcriptome
		13 Proteome
		14 Metabolome
		15 Epigenome
		16 Comparative genome
		17 Biodiversity
6502	Medical genome science	1 Disease-associated gene
		2 Personalized medicine
		3 Gene diagnosis
		4 Human genome diversity
		5 Genome medicine
		6 Regenerative medicine
		7 Genome-wide association study
		8 Human genome resequencing
		9 Genome of model animals
		10 Disease epigenomics
		11 Human population genetics
		12 Statistical genetics
		13 Medical informatics
		14 Human and animal bacterial flora
6503	System genome science	1 Gene networks
		2 Protein networks
		3 Metabolic networks
		4 Development and differentiation
		5 Synthetic biology
		6 Database biology
		7 Biological databases
		8 Modeling and simulation
		9 Bioinformatics
		10 Genome analysis technology
		11 Functional RNA
		12 Epigenomic control
		13 Genome biotechnology
		14 Genetic resources

Discipline: Conservation of biological resources

Item Number	Research Field	Screening Sub-panel Number / Keyword
6601	Conservation of biological resources	1 Conservation biology
		2 Biodiversity conservation
		3 Conservation of biological strains
		4 Conservation of genetic resources
		5 Ecosystem conservation
		6 Native species conservation
		7 Microbial culture collections
		8 Cell/Tissue/Seed Preservation

Discipline: Biological Science

Item Number	Research Field	Screening Sub-panel Number / Keyword
6701	Molecular biology	1 Chromosomal organization,function and segregation
		2 Epigenetics
		3 Chromatin dynamics
		4 DNA replication
		5 DNA damage and repair
		6 Recombination
		7 Transcription and transcriptional regulation
		8 Post-transcriptional regulation
		9 RNA
		10 Translation
		11 Post-translational modification
		12 Super-molecular complex
6702	Structural biochemistry	1 Carbohydrate
		2 Lipid
		3 Nucleic acid
		4 Protein
		5 Enzyme
		6 Gene and chromosome
		7 Biological membrane and receptor
		8 Intercellular matrix
		9 Organelle
		10 Posttranslational modification
		11 Molecular recognition and interaction
		12 Denaturation and folding
		13 Structural analysis and prediction
		14 NMR
		15 Mass spectrometry
		16 X-ray crystallography
		17 High-resolution electron microscopy
6703	Functional biochemistry	1 Catalytic mechanism of enzyme
		2 Regulation of enzyme
		3 Gene expression and replication
		4 Biological energy transduction
		5 Metalloprotein
		6 Biological trace element
		7 Hormone and bioactive substances
		8 Cell signal transduction
		9 Membrane transport and transporters
		10 Proteolysis
		11 Cytoskeleton
		12 Immunobiochemistry
		13 Glycobiology
		14 Bioelectrochemistry
6704	Biophysics	1 Structures, dynamics and functions of proteins and nucleic acids
		2 Motility/Transport
		3 Biomembranes/Receptors/Channels
		4 Photobiology
		5 Cellular signaling and dynamics
		6 Neural information processing
		7 Theoretical biology/Bioinformatics
		8 Structural biology
		9 Folding
		10 Prediction of structure and function
		11 Single-molecule measurements and manipulation
		12 Bioimaging
		13 Non-equilibrium/Complex systems

(Discipline: Biological Science)

Item Number	Research Field	Screening Sub-panel Number / Keyword
6705	Cell biology	1 Cell structure and function
		2 Biomembrane
		3 Cytoskeleton/Cell motility
		4 Intracellular signaling
		5 Intercellular communication
		6 Cell cycle
		7 Cytokinesis
		8 Nuclear structure and function
		9 Cell-cell interaction/Extracellular matrix
		10 Protein degradation
		11 Chromatin
		12 Organelle-genesis and dynamics
6706	Developmental biology	1 Cell differentiation
		2 Stem cells
		3 Germ layer formation and gastrulation
		4 Organogenesis
		5 Fertilization
		6 Germ cells
		7 Regulation of gene expression
		8 Developmental genetics
		9 Evolution and development

Discipline: Basic biology

Item Number	Research Field	Screening Sub-panel Number / Keyword
6801	Plant molecular biology/Plant physiology	1 Plastid function/Photosynthesis
		2 Phytohormones/Growth and development/Totipotency
		3 Organelles/Cell wall
		4 Response to environmental factors
		5 Plant-microbe interaction/Symbiosis
		6 Metabolism
		7 Plant molecular function
6802	Morphology/Structure	1 Animal morphology
		2 Plant morphology
		3 Microorganisms and algae morphology
		4 Comparative endocrinology
		5 Molecular morphology
		6 Morphogenesis and simulation
		7 Tissue construction
		8 Microstructure
		9 Microscopic techniques and imaging
6803	Animal physiology/Animal behavior	1 Metabolism
		2 Neurobiology
		3 Neuroethology
		4 Behavioral physiology
		5 Animal physiology and biochemistry
6804	Genetics/Chromosome dynamics	1 Cytogenetics
		2 Population genetics
		3 Evolutionary genetics
		4 Human genetics
		5 Genetic diversity
		6 Developmental genetics
		7 Behavioral genetics
		8 Mutagenesis
		9 Chromosome rearrangement and maintenance
		10 Model organism development
		11 Transposon
		12 QTL analysis
		13 Epigenetics

(Discipline: Basic biology)

Item Number	Research Field	Screening Sub-panel Number / Keyword
6805	Evolutionary biology	1 Origin of life
		2 Origin of eukaryotic organisms
		3 Origin of organelles
		4 Origin of multicellularity
		5 Molecular evolution
		6 Morphological evolution
		7 Evolution of function
		8 Evolution of genes
		9 Evolutionary biology in general
		10 Comparative genomics
		11 Experimental evolutionary biology
6806	Biodiversity/Systematics	1 Metabolism physiology
		2 Classification system
		3 Evolution
		4 Genetic diversity
		5 Population/Species diversity
		6 Community/Ecosystem diversity
		7 Taxonomic character
		8 Phylogenetics
		9 Speciation
		10 Natural history
		11 Museum
6807	Ecology/Environment	1 Population
		2 Society
		3 Species interaction
		4 Assemblage
		5 Ecosystem
		6 Evolutionary ecology
		7 Behavioral ecology
		8 Natural environment
		9 Physiological ecology
		10 Molecular ecology
		11 Conservation ecology

Discipline: Anthropology

Item Number	Research Field	Screening Sub-panel Number / Keyword
6901	Physical anthropology	1 Morphology
		2 Prehistory/Chronology
		3 Biomechanism
		4 Molecular anthropology/Genetics
		5 Ecology
		6 Primates
		7 Evolution
		8 Growth/Aging
		9 Society
		10 Behavior/Cognition
		11 Reproduction/Development
		12 Bone archaeology
		13 Geographic diversity
6902	Applied anthropology	1 Physiological anthropology
		2 Ergonomics
		3 Physiological polymorphism
		4 Environmental adaptive capacity
		5 Systemic relationship
		6 Functional potential
		7 Techno-adaptability
		8 Somatometry
		9 Clothing
		10 Somatology/Adaptation
		11 Constitution/Health
		12 Forensic anthropology
		13 Medical anthropology

Area: Agricultural sciences

Discipline: Plant production and environmental agriculture

Item Number	Research Field	Screening Sub-panel Number / Keyword
7001	Science in genetics and breeding	1 Gene expression control/Epigenomics
		2 Gene regulatory network
		3 Omics analysis
		4 Transposon
		5 Organelle
		6 Growth/Developmental genetics
		7 Genome/Chromosome analysis
		8 Reproduction/Hybrid/Ploidy genetics
		9 Environmental stress
		10 Biotic stress
		11 Yield/Biomass
		12 Processing suitability/Quality improvement
		13 Genetic/Breeding resources/Biodiversity
		14 Genetic map/QTL analysis
		15 Gene introduction/mutagenesis
		16 Genome breeding/DNA marker-assisted selection
		17 Breeding theories/Bioinformatics
		18 Genetically engineered crop production/Assessment
7002	Crop production science	1 Food crops
		2 Industrial crops
		3 Forage and grassland crops
		4 Biofuel plants
		5 Resource plants
		6 Cultivation/Cropping system
		7 Farming system
		8 Crop quality/Palatability
		9 Weed science
		10 Weed control
		11 Allelochemicals
		12 Organic farming
		13 Environmentally friendly crop production
		14 Phytoremediation
		15 Management of uncultivated field
		16 Soil fertility management
		17 Stress responses
		18 Growth environment/Climatic variation
		19 Growth forecasting/Modeling
7003	Horticultural science	1 Fruit trees
		2 Vegetable crops
		3 Ornamental and landscape plants
		4 Plant production technology
		5 Transgenic and molecular biological technology
		6 Horticultural genomics and bioinformatics
		7 Pollination/Fertilization/Embryogenesis
		8 Fruit growth and ripening
		9 Plant growth failure and physiological disorders
		10 Plant growth regulators
		11 Plant pigments, aromatic compounds, and functional ingredients
		12 Environmental response and control
		13 Protected horticulture and plant factory
		14 Postharvest and processing technologies
		15 Stock and seed production, and plant propagation
		16 Plant hunting and plant genetic resources
		17 Biometrics and horticultural robotics
		18 Horticultural well-being and horticultural therapy

(Discipline: Plant production and environmental agriculture)

Item Number	Research Field	Screening Sub-panel Number / Keyword
7004	Plant protection science	1 Plant pathogens
		2 Nematode and parasitic higher plants
		3 Genome
		4 Phylogenetic systematics/Evolution
		5 Pathogenicity and virulence
		6 Resistance
		7 Disease occurrence
		8 Diagnosis of plant diseases
		9 Identification
		10 Disease control and treatment of disorder
		11 Infection·ecology·vectors
		12 Host specificity
		13 Plant pathological physiology
		14 Plant-microbe interactions
		15 Plant physiological diseases
		16 Postharvest diseases
		17 Breeding of tolerant crops
		18 RNA silencing
		19 Endophyte and mycorrhizal fungus/symbiotic bacteria
	20 Agricultural chemicals and biological control agents	
	21 Drug and herbicide-resistance	
	22 Disorder by agricultural chemicals	
	23 Plant growth regulators and plant activators	
	24 Natural bioactive substances	
	25 Disease and insect pest management	
	26 Mite and nematode management	
	27 Weed management	
	28 Introduced plants	
	29 Allelopathy	
	30 Integrated pest management	
	31 Insect vectors	
	32 Insect pest population	
	33 Natural enemy	
	34 Invasive insects and pathogens	
	35 Insect taxonomy	
	36 Occurrence forecast	
	37 Management of birds and beasts	
	38 Environmental stress responses / tolerance	
	39 Plant growing environment	
	40 Physical and cultural pest control	
	41 Diseases- and insect pest-resistant crops	
	42 Plant wound responses	
	43 Insect-plant interactions	

Discipline: Agricultural chemistry

Item Number	Research Field	Screening Sub-panel Number / Keyword
7101	Plant nutrition/ Soil science	1 Plant physiology, growth and development
		2 Plant nutrition and metabolism
		3 Plant metabolic regulation
		4 Plant molecular physiology
		5 Fertilizer
		6 Pedogenesis/Soil classification
		7 Soil physics
		8 Soil chemistry
		9 Soil organisms
		10 Soil environment
		11 Soil ecology
		12 Soil fertility
		13 Soil pollution control

(Discipline: Agricultural chemistry)

Item Number	Research Field	Screening Sub-panel Number / Keyword
7102	Applied microbiology	1 Microbial classification
		2 Fermentative production
		3 Microbial physiology
		4 Microbial genetics/breeding
		5 Microbial enzyme
		6 Microbial metabolism
		7 Microbial function
		8 Microbial application
		9 Environmental microorganism
		10 Secondary metabolite production
		11 Microbial ecology
		12 Control of microbe
		13 Genetic resources
		14 Gene expression
		15 Metabolic engineering
		16 Environmental and cellular responses
		17 Microbial genomics
7103	Applied biochemistry	1 Animal biochemistry
		2 Plant biochemistry
		3 Enzyme application
		4 Genetic engineering
		5 Protein engineering
		6 Structural biology
		7 Bioengineering
		8 Metabolic engineering
		9 Enzyme chemistry
		10 Glycoscience / Lipid science
		11 Cell/Tissue culture
		12 Metabolism and physiology
		13 Gene expression
		14 Production of useful material
		15 Cellular response
		16 Signal transduction
		17 Trace element
7104	Bioorganic chemistry	1 Bioactive substance
		2 Regulator of cell function
		3 Pesticide science
		4 Plant growth substance
		5 Signal molecule
		6 Biosynthesis
		7 Natural products chemistry
		8 Chemical biology
		9 Physical chemistry
		10 Analytical chemistry
		11 Synthetic organic chemistry
		12 Bioregulatory chemistry
		13 Molecular recognition
		14 Structure-activity relationship
7105	Food science	1 Food chemistry
		2 Food biochemistry
		3 Food function
		4 Nutritional chemistry
		5 Nutritional biochemistry
		6 Molecular biology of nutrition
		7 Nutrigenomics
		8 Food physics
		9 Food analysis
		10 Food engineering
		11 Food manufacturing/processing
		12 Food storage
		13 Food safety

Discipline: Forest and forest products science

Item Number	Research Field	Screening Sub-panel Number / Keyword
7201	Forest science	1 Ecology/Biodiversity
		2 Genetics/Breeding
		3 Physiology
		4 Taxonomy
		5 Environment
		6 Silviculture
		7 Pathology/Microorganism
		8 Insect/Animal
		9 Planning/Management
		10 Policy/Economics
		11 Sustainable forestry
		12 Operational system/Road/Machinery
		13 Erosion control/Slope conservation and torrent disaster prevention/Revegetation
		14 Water resource/Hydrologic cycle
		15 Material circulation/Flux
		16 Climate change/Carbon balance
		17 Biomass
		18 Landscape ecology/Landscape design/Landscape management
		19 Environmental education/Forest education
7202	Wood science	1 Wood anatomy
		2 Wood formation/Physical properties
		3 Cellulose/Hemicellulose
		4 Lignin
		5 Extractives/Bioactive component
		6 Microbiology
		7 Mashroom/Wood rotting fungi
		8 Chemical processing/Adhesion
		9 Preservation/Wood culture
		10 Wood drying
		11 Machining
		12 Wood based material
		13 Strength/Wooden construction
		14 Habitability
		15 Forest product education
		16 Woody biomass
		17 Pulp and paper

Discipline: Applied aquatic science

Item Number	Research Field	Screening Sub-panel Number / Keyword
7301	Aquatic bioproduction science	1 Aquatic environment
		2 Biological environment
		3 Environmental conservation
		4 Water/Sediment quality
		5 Ocean/Material cycle
		6 Seaweed beds/Tidal flats
		7 Restoration/Regeneration
		8 Environmental microbiology
		A 9 Plankton
		10 Nekton
		11 Benthos
		12 Red tide
		13 Environmental toxicology
		14 Aquatic ecosystem
		15 Global warming
		16 Biodiversity
		17 Remote sensing
		18 Taxonomy/Morphology
		19 Ecology/Ethology
		20 Bio-logging
		21 Resources/Resource management
		22 Fisheries
		23 Aquaculture
		B 24 Aquatic animals
		25 Aquatic plants
		26 Genetics/Hereditiy/Breeding
		27 Fish disease/Aquatic pathology
		28 Fisheries Engineering
		29 Fishing community/Fisheries Policy
		30 Fisheries Economics/Management/Marketing
		31 Fisheries education
		32 Fisheries Development
7302	Aquatic life science	1 Developmental biology
		2 Physiology
		3 Immunology/Biological defense
		4 Metabolism/Enzyme
		5 Fish nutrition
		6 Biochemistry
		7 Molecular biology
		8 Marine genomics
		9 Genetic resources
		10 Bioengineering
		11 Functional microbiology
		12 Glycobiology
		13 Chemical biology
		14 Biomimetics
		15 Bioactive substance
		16 Natural products chemistry
		17 Biopolymer
		18 Analytical chemistry
		19 Aquatic food chemistry
		20 Functional food
		21 Aquatic food processing/Preservation
		22 Food microbiology
		23 Food hygiene and sanitation
		24 Aquatic biotoxin
		25 Food safety
		26 Zero emission
		27 Aquatic biomass utilization
		28 Bioenergy

Discipline: Agricultural science in society and economy

Item Number	Research Field	Screening Sub-panel Number / Keyword
7401	Agricultural science in management and economy	1 Food Self-Sufficiency and Food Security
		2 Food Economy
		3 Economy and Planning of Rural Community and Fishing Village
		4 Agriculture Related Industries
		5 Economy of Food, Agriculture and Environment
		6 Food Policy
		7 Policy for Agriculture, Forestry and Fishery
		8 International Food Economy and Trade
		9 Investment and Finance for Agriculture, Forestry and Fishery
		10 Distribution of Food and Agriculture and Fishery Products
		11 Food System
		12 Food Safety and Risk Management
		13 Management in Agriculture, Forestry and Fishery
		14 Assessment of Technology and Knowledge in Agriculture, Forestry and Fishery
		15 Management, Diagnosis and Evaluation on Business
		16 Land Utilization
		17 Value Added to Agricultural Product
		18 Marketing
		19 Management Ethics and CSR
		20 Cooperative Farming in Community
		21 Organizational Support to Agriculture, Forestry and Fishery
		22 Driving Force for Management
		23 Information System for Food and Agriculture
		24 Entry of Enterprise into Agriculture
		25 Agricultural Extension
7402	Agricultural science in rural society and development	1 Rural Society
		2 Rural Life
		3 Direct Linkage with Production and Consumption in Local Area
		4 Education for Food and Agriculture
		5 Leader in Rural Community and NPO
		6 Interaction between Urban and Rural Inhabitant
		7 Women Participation in Agriculture and Social Activities
		8 Society and Culture in Rural Community
		9 Multiple Functions in Agriculture and Rural Community
		10 Agricultural History and Comparison on Farming System
		11 Ideology and Ethics in Agriculture
		12 International Agriculture
		13 International Development for Rural Community and Fishing Village
		14 Project Management for Rural Development
		15 Extension and Transfer on Technology
		16 Dietary Transition
		17 Commons

Discipline: Agro-engineering

Item Number	Research Field	Screening Sub-panel Number / Keyword
7501	Rural environmental engineering/ Planning	1 Irrigation and drainage
		2 Reclamation and conservation of agricultural land
		3 Rural planning
		4 Rural environment
		5 Rural landscape and ecosystem
		6 Rural development and sustainability
		7 Material and energy cycle management
		8 Water resources
		9 Renewable Energy
		10 Rural governance
		11 Disaster prevention
		12 Soil environmental conservation
		13 Agricultural facilities and stock management
		14 Rural roads
		15 Rural sewerage
		16 International agriculture and rural development
		17 Hydraulics
		18 Hydrometeorology
		19 Water environment
		20 Soil physics
		21 Soil mechanics
		22 Applied mechanics
		23 Design and construction materials
7502	Agricultural environmental engineering/ Agricultural information engineering	1 Bioproduction system
		2 Bioproduction machinery
		3 Greenhouse horticulture/Plant factory
		4 Environment control in biology
		5 Bioprocessing
		6 Agricultural production environment
		7 Agricultural meteorology/Micrometeorology
		A 8 Meteorological disasters
		9 Global environment and global warming
		10 Environmental remediation and greening process
		11 Renewable energy
		12 Farming technology management
		13 Agricultural labour science
		14 Postharvest engineering
		15 Supply chain management
		16 Bioinstrumentation
		17 Cell measurement techniques
		18 Nondestructive measurement
		19 Imaging analysis
		20 Environmental stresses
		21 Biosensing
		22 Image information and image recognition
		23 Agribioinformatics
		B 24 Remote sensing
		25 Geographic information system
		26 Modeling/Simulation
		27 Computer network and ICT
		28 Agricultural robotics
		29 Precision agriculture
		30 Bioenvironmental information
		31 Agricultural information
		32 Farming information

Discipline: Animal life science

Item Number	Research Field	Screening Sub-panel Number / Keyword
7601	Animal production science	1 Breeding
		2 Reproduction
		A 3 Nutrition/Feeding
		4 Feed/Feedstuff
		5 Metabolism/Endocrine control
		6 Animal hygiene
		7 Animal management/Welfare
		8 Environment
		9 Facilities/Production system
		10 Grassland/Pasture
		B 11 Grazing
		12 Animal product
		13 Manure management
		14 Livestock biomass
		15 Livestock farming
		16 Marketing of livestock products
7602	Veterinary medical science	1 Pathology
		2 Pathophysiology
		3 Pharmacology
		4 Toxicology
		A 5 Pathogenic microorganism
		6 Zoonosis
		7 Parasitology
		8 Veterinary public health
		9 Epidemic prevention
		10 Epidemiology
		11 Internal medicine
		12 Surgery
		13 Veterinary reproduction/Obstetrics
		14 Diagnostics/Laboratory examination
		B 15 Clinical pathology
		16 Therapy/Nursing
		17 Disease prevention and control
		18 Anesthesia/Analgetics
		19 Radiology
		20 Animal welfare/Ethics
7603	Integrative animal science	1 Physiology
		2 Histology
		3 Anatomy
		4 Endocrinology
		5 Cellular function
		6 Immunology
		7 Host defense
		A 8 Genetics
		9 Epigenetics
		10 Genome
		11 Development/Differentiation
		12 Bioinformatics
		13 Ecology
		14 Ethology
		15 Psychology
		16 Genetic engineering
		17 Cellular engineering
		18 Developmental biotechnology
		19 Stem cell
		20 Regenerative therapy
		21 Imaging
		B 22 Wildlife
		23 Experimental animal
		24 Animal models of disease
		25 Companion animal
		26 Animal-assisted therapy
		27 Bioresource
		28 Biodiversity

Discipline: Boundary agriculture

Item Number	Research Field	Screening Sub-panel Number / Keyword
7701	Insect science	1 Insect technology and biomaterial production
		2 Sericulture, silk
		3 Insect pathology
		4 Entomopathogenic microbes and viruses
		5 Insect ecology
		6 Insect physiology and biochemistry
		7 Insect molecular biology
		8 Insect behavior
		9 Insect population, community
		10 Insect evolution and systematics
		11 Insect genetics and genomics
		12 Insect development and reproduction
		13 Life history, seasonal adaptation
		14 Chemical ecology
		15 Chemical and physical communications
		16 Symbiosis, parasitism
		17 Spiders, mites, nematodes
		18 Apiculture
		19 Pollination
		20 Social insects
		21 Insect mimetics
7702	Environmental agriculture (including landscape science)	1 Biomass
		2 Biological environment
		3 Genetic resource
		4 Biodiversity
		5 Environmental analysis
		6 Environmental remediation
		7 Environmental purification
		8 Aquatic pollution
		9 Environmental adaptability
		A 10 Ecosystem services
		11 Resources-Environment balance
		12 Resource recycling systems
		13 Environmental value-assessment
		14 Low-carbon society
		15 LCA
		16 Environmentally friendly agriculture
		17 Watershed management
		18 Integrated agriculture and fisheries
		19 Regional agriculture
		20 Landscape design
		21 Landscape architecture
		22 Open space planning
		23 Landscape formation/Landscape conservation
		24 Cultural landscape
		25 Nature conservation/Nature restoration
		26 Urban environmental design
		27 Natural environmental assessment
		28 Biotope
		B 29 Public interest functions of ecosystem
		30 Landscape ecology
		31 Urban farmland
		32 Open space management
		33 Urban park/Disaster prevention park
		34 National park
		35 Planting engineering
		36 Urban green plant
		37 Tourism/Green-tourism, recreation
		38 Participatory town planning
		39 Social and environmental contribution green

(Discipline: Boundary agriculture)

Item Number	Research Field	Screening Sub-panel Number / Keyword
7703	Applied molecular and cellular biology	1 Cell biology
		2 Chromosome engineering
		3 Glycosylation engineering
		4 Organelle engineering
		5 Cell / Tissue engineering
		6 Epigenetics
		7 Gene expression
		8 Development/Differentiation control
		9 Cell-cell interaction
		10 Intermolecular interaction
		11 Biological interaction
		12 Biosensor
		13 Cellular function
		14 Molecular information
		15 Functional-molecule design
		16 Proteomics
		17 Metabolomics
		18 Production of useful material
		19 Culture engineering
		20 Biologics

Area: Medicine, dentistry, and pharmacy

Discipline: Pharmacy

Item Number	Research Field	Screening Sub-panel Number / Keyword
7801	Chemical pharmacy	1 Organic chemistry
		2 Synthetic organic chemistry
		3 Biomolecules
		4 Natural products chemistry
		5 Mechanistic organic chemistry
		6 Heterocyclic chemistry
		7 Asymmetric synthesis
7802	Physical pharmacy	1 Physical chemistry
		2 Analytical chemistry
		3 Galenical pharmacy
		4 Biophysical chemistry
		5 Isotope pharmaceutical chemistry
		6 Biocomplex chemistry
		7 Molecular structure science
		8 Structural biology
		9 Imaging
		10 Drug delivery
		11 Information science
7803	Biological pharmacy	1 Biochemistry
		2 Molecular biology
		3 Immunology
		4 Cell biology
		5 Developmental biology
		6 Functional genomics
		7 Physiological chemistry
		8 Endocrinology
7804	Pharmacology in pharmacy	1 Pharmacology
		2 Analytical pharmacology
		3 Neurobiology
		4 Drug therapeutics
		5 Cellular signal transduction
		6 Toxicology and drug safety
		7 Systems pharmacology
		8 Pharmacogenomics
7805	Natural medicines	1 Pharmacognosy
		2 Medicinal resources
		3 Natural medicines
		4 Traditional Chinese-Japanese medicines
		5 Ethnomedicines
		6 Biosynthesis
		7 Antibiotics and microbial medicines
		8 Bioactive natural compounds
		9 Medicinal foods
7806	Drug development chemistry	1 Medicinal chemistry
		2 Medicinal molecular design
		3 Lead discovery
		4 Functional science of medicinal molecules
		5 Genomic drug development
		6 Regulatory science
		7 Chemical biology
		8 Biopharmaceutical
7807	Environmental and hygienic pharmacy	1 Environmental hygiene
		2 Environmental chemistry
		3 Environmental dynamics
		4 Food hygienics
		5 Chemical nutrition
		6 Microbiology and infectious diseases
		7 Toxicology
		8 Environmental toxicology
		9 Cosmetic and fragrance science
		10 Hygienic tests

(Discipline: Pharmacy)

Item Number	Research Field	Screening Sub-panel Number / Keyword
7808	Medical pharmacy	1 Pharmacokinetics
		2 Drug metabolism
		3 Transporter
		4 Screening system for pharmacokinetics and metabolism
		5 Prediction system for human pharmacokinetics and metabolism
		6 Clinical chemistry
		7 Personalized medicine
		8 Clinical pharmaceutical sciences
		9 Medical pharmaceuticals
		10 Drug information and clinical toxicology
		11 Drug economics
		12 Social pharmacy
		13 Hospital pharmacy and pharmacy administration
		14 Clinical pharmacy education

Discipline: Basic medicine

Item Number	Research Field	Screening Sub-panel Number / Keyword
7901	General anatomy (including histology/embryology)	1 Gross anatomy
		2 Functional anatomy
		3 Clinical anatomy
		4 Comparative anatomy
		5 Radiological anatomy
		6 Morphogenesis and embryogenesis
		7 Teratology
		8 Experimental morphology
		9 Anatomical education
		10 Cytology
		11 Histology
		12 Cell differentiation and tissue formation
		13 Cell function and morphology
		14 Ultrastructural morphology
		15 Molecular morphology
		16 Histochemistry
		17 Microscopic technology
7902	General physiology	1 Molecular and cellular physiology
		2 Biological membrane, channel, transporter and active transport
		3 Receptor and intracellular signal transduction
		4 Stimulation-secretion coupling
		5 Epithelial function
		6 Heredity, fertilization, development and differentiation
		7 Cellular proliferation and cell death
		8 Cellular motility, morphogenesis and intercellular interaction
		9 Microcirculation, peripheral circulation, circulation dynamics and regulation
		10 Ventilation mechanics, blood gas function and respiratory control
		11 Gastrointestinal motility, absorption and digestion
		12 Renal function, body fluids, and acid-base balance
		13 Blood coagulation and rheology
		14 Pathophysiology
		15 System physiology and physiome
		16 Comparative, developmental and genome physiology
		17 Muscular physiology

(Discipline: Basic medicine)

Item Number	Research Field	Screening Sub-panel Number / Keyword
7903	Environmental physiology (including physical medicine and nutritional physiology)	1 Environmental physiology
		2 Physical medicine
		3 Nutritional physiology
		4 Adaptive and associative physiology
		5 Biorhythm
		6 Growth, development, and aging
		7 Stress
		8 Space medicine
		9 Behavioral physiology
		10 Biological clock
		11 Hyperthermia physiology
		12 Feeding regulation
		13 Sleep and arousal
		14 Reproductive physiology
7904	General pharmacology	1 Kidney
		2 Smooth muscle and skeletal muscle
		3 Gastrointestinal
		4 Inflammation and immunity
		5 Bioactive substance
		6 Central nervous system and peripheral nerve
		7 Spinal cord and pain
		8 Receptor, channel, transport system, and signal transduction system
		9 Cardiovascular system and hematology
		10 Drug discovery and pharmacogenomics
		11 Drug therapy and toxicology
		12 Herbal medicine and pharmacology of natural products
7905	General medical chemistry	1 Biomolecular medicine
		2 Cellular biochemistry (cellular medical chemistry)
		3 Genomic biochemistry (genomic medical chemistry)
		4 Developmental medicine
		5 Regenerative medicine
		6 Aging medicine
		7 Higher order life sciences
		8 Intracellular signaling
7906	Pathological medical chemistry	1 Abnormal metabolism
		2 Molecular pathogenesis
		3 Molecular and gene diagnosis
		4 Molecular oncology
		5 Molecular pathogenesis of nutrition
7907	Human genetics	1 Medical genome science
		2 Molecular genetics
		3 Cytogenetics
		4 Genetic biochemistry
		5 Genetic epidemiology
		6 Genetic diagnostics
		7 Gene therapy
		8 Social genetics
		9 Epigenetics
7908	Human pathology	1 Digestive system and salivary gland
		2 Urogenital and endocrine organs
		3 Brain and nervous system
		4 Respiratory and mediastinal organs
		2 5 Cardiovascular system
		6 Bone, joint, muscle, skin and sense organs
		7 Blood
		8 Diagnostic pathology
		9 Diagnostic cytopathology
		10 Diagnostic molecular pathology
		11 Diagnostic immunopathology
		12 Environmental pathology
		13 Transplantation pathology

(Discipline: Basic medicine)

Item Number	Research Field	Screening Sub-panel Number / Keyword
7909	Experimental pathology	1 Cell injury
		2 Tumors
		1 3 Genetic disorders
		4 Environmental diseases
		5 Regenerative medicine
		6 Inflammation
		7 Hemodynamic disorders
		8 Immune diseases
		2 9 Infectious diseases
		10 Metabolic diseases
		11 Pediatric pathology
		12 Animal models
7910	Parasitology (including sanitary zoology)	1 Helminth
		2 Protozoa
		3 Arthropod vector
		4 Pathogenic animals
		5 International health
		6 Molecules and cells
		7 Development and genetics
		8 Epidemiology
		9 Diagnosis and treatment
		10 Prevention and control
7911	Bacteriology (including mycology)	1 Genomes and genetics
		2 Structure and physiology
		3 Classification
		4 Pathogenicity
		5 Toxins and effectors
		6 Drug resistance
		7 Epidemiology
		8 Diagnosis and treatment
		9 Prevention and control
7912	Virology	1 Molecules and structure
		2 Cells and replication
		3 Organisms and pathogenicity
		4 Epidemiology
		5 Diagnosis and treatment
		6 Prevention and control
		7 Prions
7913	Immunology	1 Cytokines
		2 Signal transduction
		3 Antibodies and complements
		4 Innate immunity
		5 Acquired immunity
		6 Mucosal immunity
		7 Immunological memory
		8 Immune tolerance and autoimmunity
		9 Immune surveillance and tumor immunology
		10 Immunodeficiency
		11 Allergy and immune-related disorder
		12 Infection immunity
		13 Inflammation
		14 Immunoregulation and transplantation immunology

Discipline: Boundary medicine

Item Number	Research Field	Screening Sub-panel Number / Keyword
8001	Medical sociology	1 Bioethics
		2 Medical, Dental and Pharmaceutical Education
		3 Medical history
		4 Health economics
		5 Medical behavioral science

(Discipline: Boundary medicine)

Item Number	Research Field	Screening Sub-panel Number / Keyword
8002	Applied pharmacology	1 Clinical pharmacology
		2 Clinical trials and ethics
		3 Pharmaceutical therapeutics
		4 Adverse drug reaction and drug interaction
		5 Drug transport mechanism
		6 Pharmacogenomics
		7 Clinical isotope pharmacy
		8 Medical devices and pharmacy
		9 Drug metabolic enzyme and transporter
		10 Imaging
		11 Research using human tissue
		12 Drug dependence and drug sensitivity
		13 Genetic diagnosis and gene therapy
		14 Drug delivery
		15 Pharmacoepidemiology
8003	Laboratory medicine	1 Clinical laboratory medicine
		2 Clinical pathology
		3 Clinical chemistry
		4 Immunology and serology
		5 Clinical laboratory system
		6 Genetic testing
		7 Clinical microbiology
		8 Laboratory oncology
		9 Clinical hematology
		10 Physiological laboratory testing
8004	Pain science	1 Evaluation methods of pain
		2 Epidemiology of pain
		3 Analgesic
		4 Non-drug therapy
		5 Pain producing substance (PPS), Algesic substance
		6 Generating or exacerbating mechanism of pain
		7 Neural mechanism of pain
		8 Hyperalgesia
		9 Genetic factors of pain
		10 Development or aging factors of pain
		11 Gender difference in pain
		12 Pain withdrawal reflex
		13 Numbness, Hypesthesia
		14 Nociceptor
		15 Histopathic pain, Histotoxic pain
		16 Neuropathic pain, Neuralgia
		17 Psychological pain
		18 Itching, pruritus
		19 Epidemiology of itching, or pruritus
		20 Antipruritics
		21 Itch-producing substances
		22 Generating or exacerbating mechanism of pruritus
		23 Neural mechanism of pruritus
		24 Curettage behavior
		25 Hyperknesis
		26 Psychological itching
		27 Development or aging factors of itching

(Discipline: Society medicine)

Item Number	Research Field	Screening Sub-panel Number / Keyword
8102	Hygiene and public health	1 Environmental health
		2 Occupational health
		3 Food sanitation
		4 Community health
		5 Community medicine
		6 Maternal and child health
		7 Adult health
		8 Elderly health
		9 Global Health
		10 Health administration
		11 Health policy
		12 Care and welfare
8103	Medical and hospital management	1 Hospital management
		2 Medical administration
		3 Medical informatics
		4 Quality of medical care
		5 Medical record management
		6 Risk management
		7 Nosocomial infection management
		8 Critical path
8104	Legal medicine	1 Forensics
		2 Forensic examination
		3 Alcohol research
		4 Forensic odontology
		5 DNA polymorphism
		6 Forensic pathology

Discipline: Clinical internal medicine

Item Number	Research Field	Screening Sub-panel Number / Keyword
8201	General internal medicine (including psychosomatic medicine)	1 Psychosomatic internal medicine
		2 Stress science
		3 Oriental medicine
		4 Alternative medicine
		5 Palliative medicine
		6 General medicine
		7 Primary care
		8 Geriatrics
8202	Gastroenterology	1 1 Upper gastroenterology (esophagus, stomach, duodenum)
		2 2 Lower gastroenterology (small intestine, colon)
		3 3 Hepatology
		4 4 Biliary-Pancreatolology
		5 5 Digestive endoscopy
8203	Cardiovascular medicine	1 1 Clinical Cardiology
		2 2 Clinical Angiology
		3 3 Molecular Cardiology
		4 4 Molecular Angiology
8204	Respiratory organ internal medicine	1 1 Clinical respirology
		2 2 Molecular and cellular respirology
8205	Kidney internal medicine	1 1 Nephrology
		2 2 Hypertension
		3 3 Water and electrolyte metabolism
		4 4 Hemodialysis
8206	Neurology	1 1 Molecular pathophysiology
		2 2 Neuroimmunology
		3 3 Clinical molecular neurogenetics
		4 4 Clinical neurophysiology
		5 5 Clinical neuromorphology
		6 6 Clinical neuropsychology
		7 7 Functional neuroimaging
8207	Metabolomics	1 1 Disturbances of energy and carbohydrate metabolism
		2 2 Metabolic syndrome
		3 3 Abnormal lipid metabolism
		4 4 Disorder of purine metabolism
		5 5 Abnormal bone and calcium metabolism
		6 6 Metabolic electrolyte abnormality
8208	Endocrinology	1 Endocrinology
		2 Reproductive endocrinology

Discipline: Society medicine

Item Number	Research Field	Screening Sub-panel Number / Keyword
8101	Epidemiology and preventive medicine	1 Epidemiology
		2 Clinical epidemiology
		3 Clinical trial
		4 Clinical statistics
		5 Environmental epidemiology
		6 Molecular epidemiology
		7 Preventive medicine
		8 Medical examination
		9 Screening
		10 Mass-screening
		11 Health management
		12 Health promotion

(Discipline: Clinical internal medicine)

Item Number	Research Field	Screening Sub-panel Number / Keyword
8209	Hematology	1 1 Hematology
		2 Hematology/Oncology
		3 Thrombosis/Hematostasis
		4 Transfusion medicine
		2 5 Hematopoietic stem cell transplantation
		6 Hematology/Immunology
		7 Immune regulation
8210	Collagenous pathology/ Allergology	1 1 Connective tissue diseases
		2 Rheumatology
		3 Allergology
		2 4 Clinical immunology
		5 Inflammation
8211	Infectious disease medicine	1 1 Infection diagnosis
		2 Infection therapy
		3 Infection prevention
		4 International infection science
		5 Infection epidemiology
		6 Opportunistic infection
8212	Pediatrics	1 1 Developmental pediatrics
		2 Growth and developmental medicine
		3 Pediatric neurology
		4 Pediatric endocrinology
		5 Pediatric metabolism/Nutrition
		6 Hereditary/Teratology
		7 Pediatric health
		8 Pediatric social medicine
		9 Pediatric hematology
		10 Pediatric oncology
		2 11 Pediatric immunology/Allergy/Connective tissue diseases
		12 Pediatric infectious disease
		13 Pediatric cardiology
		3 14 Pediatric respirology
		15 Pediatric nephrology/Urology
		16 Pediatric gastroenterology
8213	Embryonic/ Neonatal medicine	1 1 Prenatal diagnosis
		2 Fetal medicine
		3 Teratology
		4 Neonatal medicine
		5 Premature baby medicine
8214	Dermatology	1 1 Skin diagnostics
		2 Mechanisms of skin diseases
		3 Cutaneous physiology and biology
		4 Laser/photobiology
		5 Dermatologic oncology
		6 Pigment cell biology
		2 7 Cutaneous immunology and inflammation
		8 Infectious diseases
		9 Regenerative dermatology
		10 Skin genetics
8215	Psychiatric science	1 1 Psychopharmacology
		2 Clinical molecular genetics
		3 Psychophysiology
		4 Psychopathology
		5 Social psychiatry
		6 Child and adolescence psychiatry
		2 7 Geriatric psychiatry
		8 Forensic psychiatry
		9 Neuropsychology
		10 Liaison psychiatry
		11 Psychiatric rehabilitation

(Discipline: Clinical internal medicine)

Item Number	Research Field	Screening Sub-panel Number / Keyword
8216	Radiation science	1 1 Medical imaging (including diagnostic radiology)
		2 X-Ray/CT
		1 3 Magnetic resonance imaging
		4 Nuclear medicine (including PET)
		5 Ultrasonography
		6 Radiopharmaceuticals/Contrast medium
		7 Radiation protection and safety management
		8 Medical imaging technology
		9 Interventional radiology
		10 Angioplasty/Osteoplasty/Vascular embolization
		2 11 Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment
		12 Hyperthermia
		13 Ultrasound therapy
		14 Radiation emergency medicine
		15 Medical radiation biology
		16 Therapeutic radiology
		17 Radiation oncology
		3 18 Radiotherapy physics
		19 Radiotherapy biology
		20 Particle beam therapy
		21 Radiation technology

Discipline: Clinical surgery

Item Number	Research Field	Screening Sub-panel Number / Keyword
8301	General surgery	1 1 General surgery
		2 Transplant surgery
		1 3 Artificial organs science
		4 Endoscopic surgery
		5 Robotic surgery
		6 Experimental surgery
		2 7 Endocrine surgery
		8 Breast surgery
		9 Surgical metabolism and nutrition
8302	Digestive surgery	1 1 Esophageal surgery
		2 Gastroduodenal surgery
		2 3 Colorectal surgery
		4 Hepatic surgery
		5 Surgery for spleen and portal vein
		4 6 Biliary surgery
		7 Pancreatic surgery
8303	Cardiovascular surgery	1 1 Coronary surgery
		2 Heart valve surgery
		3 Surgery in cardiomyopathy
		4 Congenital cardiovascular surgery
		5 Aortic surgery
		2 6 Peripheral vascular surgery
		7 Phlebosurgery
		8 Lymphology
8304	Respiratory surgery	1 1 Lung surgery
		2 Tracheal surgery
		2 3 Mediastinal surgery
		4 Pleural surgery
		5 Chest wall surgery
8305	Neurosurgery	1 1 Neurotrauma
		2 Cerebrovascular disorders
		1 3 Neuro-endovascular surgery
		4 Experimental neurosurgery
		5 Diagnostic neuroimaging
		6 Neuro-oncology
		7 Functional neurosurgery
		2 8 Pediatric neurosurgery
		9 Spinal cord/Spinal diseases
		10 Neurosurgical instruments
		11 Stereotactic radiosurgery

(Discipline: Clinical surgery)

Item Number	Research Field	Screening Sub-panel Number / Keyword
8306	Orthopaedic surgery	1 Spinal disorders
		2 Muscle/Nerve disorders
		3 Physical therapy and rehabilitation science
		4 Bone and soft tissue tumors
		5 Limb reconstruction surgery
		6 Pediatric orthopaedics
		7 Musculoskeletal traumatology
		8 Joint disorders
		9 Rheumatic diseases
		10 Bone and cartilage metabolism
		11 Sports medicine
8307	Anesthesiology	1 Anesthesiology
		2 Anesthesiology and Resuscitology
		3 Perioperative management
		4 Pain management
8308	Urology	1 Oncology
		2 Neurourology and Urodynamics
		3 Infectious diseases
		4 Regenerative medicine
		5 Regenerative medicine
		6 Teratology
		7 Adrenal surgery
		8 Kidney transplantation
		9 Andrology
8309	Obstetrics and gynecology	1 Obstetrics
		2 Reproductive medicine
		3 Gynecology
		4 Gynecologic oncology
		5 Menopause medicine
8310	Otorhinolaryngology	1 Otology
		2 Equilibrium Research
		3 Audiology
		4 Rhinology
		5 Allergology
		6 Skull Base Surgery
		7 Stomato-pharyngology
		8 Laryngology
		9 Broncho-esophagology
		10 Head and Neck Surgery
8311	Ophthalmology	1 Clinical research
		2 Epidemiology study
		3 Social medicine
		4 Ocular biochemistry and molecular biology
		5 Ocular cell biology
		6 Ophthalmic genetics
		7 Ocular histology
		8 Ocular pathology
		9 Ocular pharmacology
		10 Ocular physiology
		11 Ocular developmental and regenerative biology
		12 Ocular immunology
		13 Ocular microbiology/Infectious diseases
		14 Science orthoptic
		15 Optics
		16 Ophthalmic medical engineering
8312	Pediatric surgery	1 Pediatric digestive surgery
		2 Fetal surgery
		3 Pediatric urology
		4 Pediatric chest surgery
		5 Pediatric oncology
8313	Plastic surgery	1 Reconstructive surgery
		2 Wound healing science
		3 Microsurgery
		4 Tissue culture/Transplantation
		5 Regenerative medicine
8314	Emergency medicine	1 Intensive care medicine
		2 Trauma surgery
		3 Emergency resuscitation science
		4 Acute toxicology
		5 Disaster medicine

Discipline: Dentistry

Item Number	Research Field	Screening Sub-panel Number / Keyword
8401	Morphological basic dentistry	1 Oral anatomy (including histology/embryology)
		2 Oral pathology
		3 Oral bacteriology
8402	Functional basic dentistry	1 Oral physiology
		2 Oral biochemistry
		3 Dental pharmacology
8403	Pathobiological dentistry/ Dental radiology	1 Experimental oncology
		2 Immunity/Infection/Inflammation
		3 General dental radiology
		4 Oral and maxillofacial diagnostic radiology
8404	Conservative dentistry	1 Operative dentistry
		2 Endodontology
8405	Prosthodontics/ Dental materials science and engineering	1 General prosthodontics
		2 Removable denture prosthodontics
		3 Fixed partial denture prosthodontics
		4 Oral and maxillofacial prosthetics
		5 Stomatognathic function
		6 Dental engineering
		7 Dental materials science
8406	Dental engineering/ Regenerative dentistry	1 Biomaterials science
		2 Regenerative dentistry
		3 Oral implantology
8407	Surgical dentistry	1 Oral and maxillofacial surgery
		2 Clinical oncology
		3 Dental anesthesiology
		4 Laboratory medicine
		5 Oral maxillofacial reconstructive surgery
8408	Orthodontics/ Pediatric dentistry	1 Orthodontics
		2 Pediatric dentistry
		3 Pediatric oral health science
		4 Stomatognathic function and mechanics
8409	Periodontology	1 Pathogenesis and diagnosis
		2 Periodontics
		3 Periodontal tissue engineering
		4 Preventive periodontology
8410	Social dentistry	1 Dental hygiene (including public hygiene/nutrition)
		2 Preventive dentistry
		3 Oral health administration and management
		4 Forensic odontology
		5 Gerodentics
		6 Psychosomatic medicine dentistry
		7 Dental education

Discipline: Nursing

Item Number	Research Field	Screening Sub-panel Number / Keyword
8501	Fundamental nursing	1 Nursing philosophy
		2 Nursing ethics
		3 Nursing art
		4 Nursing education
		5 Nursing management
		6 Nursing policy/Administration
		7 Disaster nursing
		8 History of nursing
8502	Clinical nursing	1 Critical care/Emergency nursing
		2 Perioperative nursing
		3 Adult nursing (chronic)
		4 Rehabilitation nursing
		5 Terminal care
		6 Oncology nursing
8503	Lifelong developmental nursing	1 Family health nursing
		2 Maternal/Women's health nursing
		3 Midwifery
		4 Child health nursing
8504	Gerontological nursing	1 Gerontological nursing
		2 Psychiatric/Mental health nursing
		3 Home care nursing
		4 Visiting nursing
		5 Family health nursing
		6 Rehabilitation nursing

(Discipline: Nursing)

Item Number	Research Field	Screening Sub-panel Number / Keyword	
8505	Community health nursing	1	Community health nursing
		2	Public health nursing
		3	School nursing
		4	Occupational and environmental health nursing

IV. Instructions & Procedures for those Who Have Already Been Accepted

1. On the handling of research projects that are scheduled to be continued in FY2013 (hereinafter called “continued research projects”).

It is not necessary to submit application forms for research projects the continuation of which has been informally agreed in FY2012 (continued research projects). (However, in order to receive KAKENHI, it is necessary to prepare and to submit the necessary documents like the grant application form, after receiving a notification of the informal decision to offer KAKENHI)

2. On the Handling of Continued Research Projects in Which Students are the Principal Investigators

Students, such as, for example, graduate students, cannot apply for Grants-in-Aid for Scientific Research. Therefore, students cannot apply, even if they hold a position in which they conduct research activities in the research institution to which they belong or in another research institution.

However, persons who have a position consisting of conducting research activities in the research institution to which they belong, as their main work (e.g., university teaching staff, researchers from companies, etc.), and who also have a student status are not included in the term “student” for the purposes of this process.

3. On the Handling of Continued Research Projects in Which the Principal Investigator Has Failed to Submit the Report on the Research Achievements

In the same way as for new research projects, no KAKENHI will be funded to researchers who do not submit the report on the research achievements at the end of the research, without any reason. Moreover, it may happen that the decision to grant the funding to the researcher in question is cancelled, or that an order to return the grant is issued.

Furthermore, if researchers have failed, without good reason, to submit the scheduled report on the research achievements, then implementation of other KAKENHI due to be implemented in the same fiscal year will be suspended.

V. Instructions & Procedures for Staff of the Research Institution

1. Issues to Be Completed Beforehand by the “Research Institution”

(1) Requirements as a “Research Institution” and Procedures for Designation and Change In order to apply for KAKENHI, a researcher needs to belong to a “Research Institution”

Concerning the “Research Institution” cited here, the following four types of “Research Institution” have been designated as eligible in Article 2 of the Rules for the Handling of Grants-in-Aid for Scientific Research (announced by the Ministry of Education, Culture, Sports, Science and Technology).

- 1) Universities and inter-university research institutions
- 2) MEXT facilities and other institutions engaged in scientific research
- 3) Technical colleges
- 4) Institutions designated by the Minister of MEXT (See note.)

(Note) In order to become research institution, institutions not falling under 1) to 3) first need to receive the designation by the Minister of Education, Culture, Sports, Science and Technology (MEXT). Therefore, applicants should consult with the Scientific Research Aid Division of the Research Promotion Bureau of the Ministry of Education, Culture, Sports, Science and Technology (MEXT).

Moreover, if changes in one of the following items have been scheduled, institutions that have received the designation by the Minister of Education, Culture, Sports, Science and Technology (MEXT) and already have been recognized as research institution should promptly report the content of these changes to the Scientific Research Aid Division of the Research Promotion Bureau of the Ministry of Education, Culture, Sports, Science and Technology (MEXT).

- A) abolition or dissolution of the research institution,
- B) name and address of the research institution, and name of the representative,
- C) matters concerning laws, regulations, endowment acts and other rules that prescribe the purpose of establishment, the business content, and the internal organization of the research institution.

Moreover, **researchers should consider that**, in order to conduct research activities using KAKENHI, **the research institution should meet the requirements mentioned below.**

(Requirements)

- A) if a KAKENHI is given, the research activity should be conducted as an activity of the research institution in question,**
- B) if a KAKENHI is given, the research institution should carry out the management of KAKENHI.**

(2) Verification of the Eligibility to Apply of the Affiliated Researcher

To apply for a Grant-in-Aid, researchers must satisfy the following two requirements. Persons

applying for this Research Activity Start-up grant must at the time of application be eligible to apply for a Grant-in-Aid and must also satisfy one of the two conditions stipulated on the following page. Their affiliated research institutions must fully verify that they satisfy these conditions.

Moreover, graduate students or other students cannot apply, even if they hold a position in which they conduct research activities in the research institution to which they belong or in another research institution.

Researchers who try to apply for KAKENHI, should meet the Eligibility to Apply. (see page 19-21)

1) At the time of the application, a person needs to be recognized by the research institution to which he or she belongs to be a researcher who meets the requirements A), B) and C) below, and needs to be a researcher whose Researcher Information has been registered in e-Rad as “Eligible to Apply for KAKENHI”.

(Requirements)

A) The researcher should belong to the research institution as a person who has *inter alia* the duty to perform research activities within the research institution in question (irrespective of whether the work is paid or unpaid, full-time or part-time. Moreover, it is not necessary for the researcher to perform these research activities as his or her main duty.)

B) The researcher should actually be engaged in research activities at the research institution in question (this does not apply to cases where he or she is only engaged as a research assistant.)

C) The researcher is not a graduate student or any other category of student. (However, this does not apply to persons who hold a position consisting of conducting research activities in the research institution to which they belong, as their main work (e.g. university teaching staff, researchers from companies, etc.), and those who also have a student status.)

2) A person should not fall under “Not eligible for receipt of funding” in FY2013, because he or she committed fraudulent use, fraudulent receiving of grants or fraudulent acts of/with KAKENHI or other competitive funding.

Research grant employees, as a rule, need to concentrate on their employment related work according to their employment contract. Therefore, considering the working hours they need to allot to their employment related work, they cannot apply for KAKENHI themselves.

However, if they provide a clear explanation on the time they can spend besides their employment related work, and if during this time they themselves attempt to conduct research using KAKENHI on their own initiative, it is possible for them to apply for KAKENHI, on

condition that the following points have been verified in the research institution. In this case, they can apply as a Principal Investigator, and they can also become Co-Investigators (*kenkyū-buntansha*), Co-Investigators (*renkei-kenkyūsha*), or other project members.

- It has been determined in the employment contract that research grant employees themselves can conduct research on their own initiative, besides their employment related work.
- The employment related work and the work devoted to research that they conduct themselves on their own initiative has clearly been divided in the working hours and the effort.
- Time that can be allotted to research which they attempt to conduct themselves on their own initiative has been secured, besides the time spent for employment related work.

Requirements

A) Persons who could not apply for a research category, because they became eligible to apply for KAKENHI on the day after the application deadline (November 9, 2012) for the research categories for which the Ministry of Education, Culture, Sports, Science and Technology (MEXT) and the Japan Society for the Promotion of Science (JSPS) organized a call for proposals in September 2012.

(Examples: Persons newly employed as a researcher in a Japanese research institution on 1 April 2013; persons newly employed as a researcher in a Japanese research institution upon return from overseas.)

B) Persons who could not apply for the research categories for which the Ministry of Education, Culture, Sports, Science and Technology (MEXT) and the Japan Society for the Promotion of Science (JSPS) organized a call for proposals in September 2012, because they took up maternity leave or childcare leave in FY2012.

Note 1: Regarding A) above, if the applicant has a question as to whether s/he satisfies this eligibility conditions (including his/her data registration), s/he should ask JSPS (Research Program Department, Research Aid Division II) via his/her affiliated research institution.

Note 2: Regarding B) above, among persons satisfying this eligibility condition, those registered as “Eligible to apply for KAKENHI” in e-Rad on or before 9 November 2012 are required to submit the below-listed information to arrive at JSPS by 5 p.m., Friday, 26 April 2013 via their affiliated research institution.

1. Institution number
2. Institution name
3. Title, name and seal (ouin) of head of institution

4. Researcher's serial number
5. Researcher's name (kanji and katakana)
6. Reason for not being able to apply for a Grant-in-Aid recruited in September 2012 (within 100 characters), and period of maternity/infant-raising leave.
7. Contact information on cognizant administrative staff (name, division, section, telephone number)

(3) Registration of the Researcher Information in e-Rad

Applicants for principal researcher must be registered as “Eligible to apply for KAKENHI” on e-Rad.

Regarding the registration (renewal) of the researcher information necessary when applying, the person in charge in the research institution to which the researcher belongs should perform the procedures using e-Rad. (if there is any item, such as the institution, the position, or others, that needs to be corrected, even though he or she has already been included in the researcher list of the research institution, the applicant needs to register the correct information on the researcher list.)

For specifics on the method of registration, the research institution should verify the “Manual for Research Institutions to which the Researchers Belong (KAKENHI for Research Institutions)”.

Moreover, concerning the registration of the researcher information in e-Rad, there is no registration period (deadline). Therefore, registration is possible at any time.

Moreover, Since Proposals for Grant-in-Aid will not be accepted after the deadline for submission of application documents, applicants should complete the registration (the renewal) of the researcher information early, in order to have sufficient time to submit (send) them.

In order not to negatively affect the compilation of the applications within the research institution, when completing the applications, the research institution should perform the various procedures (including the procedures within the research institution), positioning this specific procedure as one of the important procedures to be performed by the research institution.

(4) Verification of the ID and the Password of the Researcher Belonging to the Research Institution

In order to apply for KAKENHI, researchers should perform the procedures, by logging in into e-Rad, and by accessing the “Electronic Application System”), he or she should retain the ID and the Password for e-Rad. For this reason, the research institution should verify whether researchers who are scheduling to apply have an ID and a Password, or not.

In case there is a researcher who has scheduled to apply and who has no ID or Password, the

research institution should deal with this matter as follows.

- 1) In order to provide the researcher with an ID and a Password, the research institution needs to have an Electronic Certificate for Research Institutions, an ID and a Password. If the research institution has not yet obtained them, it should first of all download a registration form from the e-Rad Portal Site, conduct a registration application in writing.

It takes approximately two weeks for the “ID and password for use of the research institution” to arrive after registration application the “Application for Use of the Electronic Application System”.

Note 1 Please refer to “Advance Preparation when Using the System”

(<http://www.e-rad.go.jp/shozoku/summary/index.html>) on the e-Rad website for information on downloading the e-Rad electronic certificate, ID and password.

Note 2 Research institutions that already obtained an ID and a password issued do not need to obtain it again.

Note 3 It is not necessary to obtain an ID and a password for each research category of the KAKENHI.

- 2) After obtaining an ID and a password for use in the research institution, the people in the research institution should provide this ID and password to the researcher who is planning to apply as a Principal Investigator. Please refer to the “Manual for Research Institutions to which the Researchers Belong (Grants-in-Aid for Scientific Research for Research Institutions)” for information on the concrete way how to provide them.

Note 1 In case the ID and the Password for e-Rad have already been provided, it is not necessary to provide them a second time.

Note 2 Please be sure to obtain and use the latest version of the Operation Manual.

(5) Submission of a “Self-Assessment Checklist on the Improvement of the System and Other Matters”, based on the “Guidelines on the Management and Audit of Public Research Funds at Research Institutions (Implementation Standards)”

The Research Institution that is applying for KAKENHI should set up a system for the management and audit of public research funds, based on the “Guidelines on the Management and Audit of Public Research Funds at Research Institutions”, and should report on its state of implementation.

Therefore, the Research Institution (including research institutions which are already engaged in a continued research project funded with a KAKENHI) that is applying for KAKENHI should submit a “Self-Assessment Checklist on the Improvement of the System and Other Matters”, based on the “Guidelines on the Management and Audit of Public Research Funds at Research Institutions

(Implementation Standards)” to the Office of Research Funding Administration of the Promotion Policy Division of the Research Promotion Bureau of the Ministry of Education, Culture, Sports, Science and Technology (MEXT) by April 19 (Friday), 2013, using e-Rad. Please be advised that, in case the report is not submitted, applications of researchers who belong to the research institution in question in the electronic system will not be considered.

Moreover, if the checklist has already been submitted in April 2012 or later through e-Rad when applying for competitive funding or other kinds of funding that is allotted by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) or by independent administrative legal entities under the control of the Ministry of Education, Culture, Sports, Science and Technology (MEXT). It is not necessary to submit it again.

When using e-Rad, one needs an ID and a Password.

With regard to the checklist submission method, checklist forms and other matters using e-Rad, the research institution should verify the text “Concerning the Form Files ‘Self-Assessment Checklist on the Improvement of the System and Other Matters’, based on the ‘Guidelines on the Management and Audit of Public Research Funds at Research Institutions (Implementation Standards)”” on the webpage of the Ministry of Education, Culture, Sports, Science and Technology (MEXT) (http://www.mext.go.jp/a_menu/kansa/houkoku/1301688.htm).

Note: After submission of the check list, the research institution may be requested to cooperate in field surveys on the state of the improvement of the system and other matters, conducted by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) (including institutions allocating grants), if the need arises.

Please direct inquiries to:

(for inquiries concerning forms of the guidelines and submission)

Office of Research Funding Administration
Promotion Policy Division
Research Promotion Bureau
Ministry of Education, Culture, Sports, Science and Technology (MEXT)
e-mail: kenkyuhi@mext.go.jp
URL: http://www.mext.go.jp/a_menu/kansa/houkoku/1301688.htm

(for inquiries concerning the registration of the research institution in e-Rad)

Helpdesk of the Cross-ministerial Research and Development management system of the Ministry of Education, Culture, Sports, Science and Technology (MEXT)
Tel. 0120-066-877

(office hours: 9:00-18:00, except on Saturdays, Sundays, National Holidays and the New Year Holidays (from December 29 until January 3))

URL: <http://www.e-rad.go.jp/shozoku/summary/index.html>

(6) On the Submission of the Report on the Research Achievements

The research institution to which researchers belong has to collect and submit the reports on the research achievements. If the research institution has failed, without good reason, to submit the reports on the research achievements at the end of the research, it may happen that it is treated as indicated below. Therefore, it is the responsibility of the representative of the research institution to ensure that the report on the research achievements is submitted without fail.

- No KAKENHI will be funded to researchers who do not submit the report on the research achievements at the end of the research, without good reason. Moreover, it may happen that the decision to grant KAKENHI to the researcher in question is cancelled, or that an order to return the grant is issued. It may also happen that information, such as the name of the research institution to which the researcher in question belongs and other data, is made public.

Furthermore, if researchers have failed, without good reason, to submit the scheduled report on the research achievements, then implementation of other KAKENHI due to be implemented in the same fiscal year will be suspended.

(7) Obtaining Sufficient Knowledge about the Contents of the Application Procedures

The research institution should beforehand disseminate the contents of the Application Procedures to all the researchers on the campus. JSPS would especially like to request the dispersion of information on the items listed in the Application Procedures and the submission deadlines of application documents, in order to avoid potential misunderstandings.

Moreover, the Application Procedures are available on the section Grants-in-Aid for Scientific Research of the JSPS website (<http://www.jsps.go.jp/j-grantsinaid/index.html>). The website should be used as a reference.

2. Issues that Need to Be Verified When Compiling the Application Forms (Preparing the Proposal for Grant-in-Aid)

The contents of the Proposals for Grant-in-Aid should be verified in each research institution, and all the Proposals for Grant-in-Aid should be submitted to JSPS together. When doing so, special attention should be paid to the following points.

(1) Verification of the Eligibility to Apply

It should be verified whether the Principal Investigator listed in the Proposal for Grant-in-Aid are persons who meet the requirements that are stipulated in the Application Procedures (see page 19-21), and also whether the researcher information is registered in e-Rad as “Eligible to Apply for KAKENHI”.

Moreover, on this occasion, it should certainly be verified whether the researchers who apply are not persons who have been excluded from receiving KAKENHI, due to an inappropriate use of KAKENHI.

(2) Verification of the Registration of the Researcher Information in e-Rad

Regarding the registration (renewal) of the researcher information necessary when applying, the person in charge in the research institution to which the researcher belongs should perform the procedures using e-Rad.

Moreover, if there is any item, such as the institution, the position, or others, that needs to be corrected, even though he or she has already been included in the researcher list of the research institution, the applicant needs to register the correct information on the researcher list. Therefore, this should be verified.

(3) Verification of the Principal Investigator

The research institution should verify whether the Principal Investigator who have been listed in the Preparing the proposal for grant-in-aid prepared the Preparing the proposal for grant-in-aid after verifying the section “II. Details of the Call for Proposals”, which are laid down in the Application Procedures.

(4) Verification of the Application Forms

Applicants should verify whether the application forms for grants-in-aid are in conformity with the prescribed format.

Moreover, the format and other matters of the application forms are as follows.

Research category	Proposal for grant-in-aid	
	First part	Second part
	Application information (to be entered in the website)	Project description file
Grant-in-Aid for Research Activity Start-up	To be entered in the electronic application system	S-1-17

3. Submission and other matters of the Application Forms (Preparing the Proposal for Grant-in-Aid) Outline of the Electronic Application Procedures

- (1) The research institution should login in e-Rad, using the ID and the password for e-Rad, access the “Electronic Application System”, obtain the information of the Proposals for Grant-in-Aid (PDF files) that the Principal Investigators prepared, and verify their contents and other matters.
- (2) The research institution should perform the “approval” process on all the proposals for grant-in-aid (PDF files) that have no mistakes in their contents. (It should submit (send) the proposals for grant-in-aid (PDF files) to JSPS.)

The deadline for the submission (sending) of the proposals for grant-in-aid is:

May 10 (Friday), 2013, 4:30 pm (This deadline should be observed strictly.)

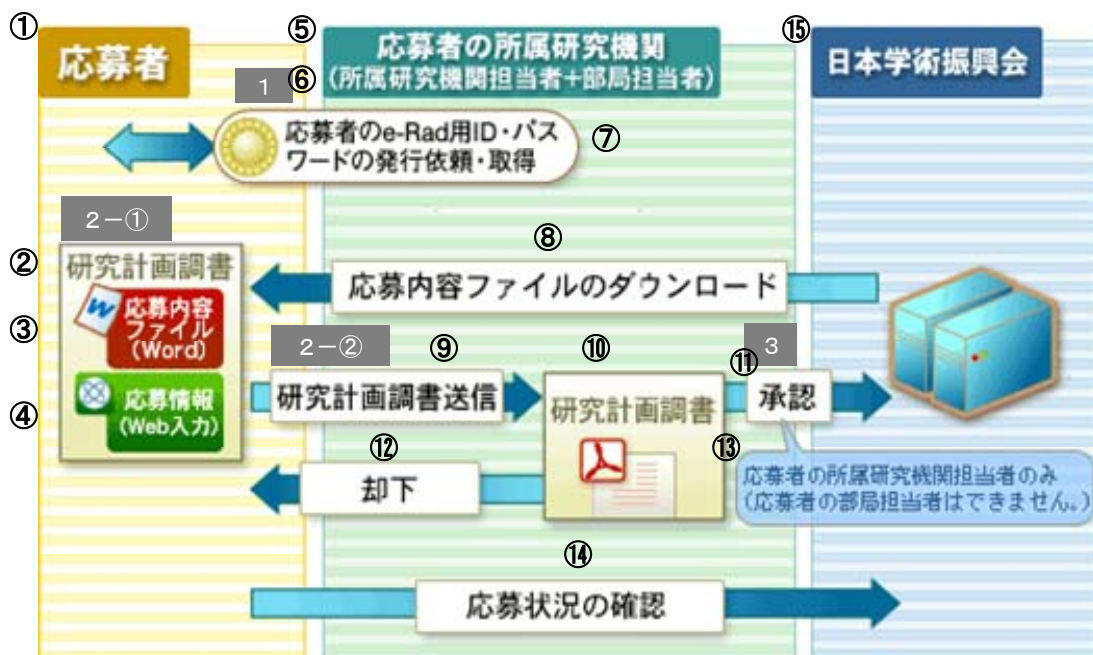
Note 1 Application documents that are submitted (sent) after this deadline will not be accepted. Therefore, the documents should be submitted (sent) well in advance.

Note 2 After the submission (sending) of the application documents, it is not possible to make corrections or to re-submit them.

- (3) The ID and the password which are used in the e-Rad are designed to verify the research institution and the individual. Therefore, the handling and administration of them should be done carefully when carrying out the application procedures.

Moreover, an outline of the procedures for electronic application can be found below. However, for details on the “Electronic Application System”, please refer to the “Operation Manual”.

Outline of the Electronic Application Procedures



- ① applicant
- ② proposal for grant-in-aid
- ③ project description file (Word)
- ④ application information (to be entered in the website)
- ⑤ the research institution to which the applicant belongs
- ⑥ person in charge in the research institution + person in charge in the department
- ⑦ request for issue and acquisition of the applicant's ID and password for e-Rad
- ⑧ downloading of the project description file
- ⑨ sending the proposal for grant-in-aid
- ⑩ proposal for grant-in-aid
- ⑪ approval
- ⑫ rejection
- ⑬ only the person in charge of the research institution to which the applicant belongs (The person in charge of the department of the applicant cannot make an approval.)
- ⑭ confirmation of the state of the application
- ⑮ the Japan Society for the Promotion of Science (JSPS)

The person in charge of the research institution to which the applicant (Principal Investigator) belongs

- 1 The person in charge of the research institution to which the applicant belongs issues the ID and the password to the applicant.

The applicant (Principal Investigator)

- 2-(1) The applicant logs into e-Rad using the ID and the password he or she received, and then

accesses the “electronic application system” and prepares the proposal for grant-in-aid (PDF file), by entering the application information (to be entered in the website) and by attaching the project description file (items in the attached file).

- 2-(2) If there are no mistakes in the proposal for grant-in-aid (PDF file) the applicant prepared, he or she should submit (send) the proposal for grant-in-aid (PDF file) to the person in charge of the research institution to which he or she belongs, by performing the “completed and submission” .

The person in charge of the research institution to which the applicant (Principal Investigator) belongs

- 3 By approving the proposal for grant-in-aid (PDF file) the person in charge of the research institution to which the applicant belongs submits (sends) it to JSPS.

Moreover, if the proposal for grant-in-aid (PDF file) that the applicant submitted is not approved due to mistakes or other reasons, it will be rejected and the applicant will be requested to make corrections.

(Reference 1) Screening Panels and Other Matters

1. Screening Panels

The screening for KAKENHI is carried out by the Scientific Research Grant Committee of the Japan Society for the Promotion of Science (JSPS), and it is based on the application documents (Proposal for grant-in-aid).

Application screening will be carried through document reviews and consultations by screening committees in each research field.

The screening takes place behind closed doors. The submitted application documents are not returned to the applicants.

2. Screening Methods, Key Points, and Other Matters

The “assessment rules” (Rules concerning the screening and assessment for Grants-in-Aid for Scientific Research, called “screening and assessment rules” below) are available on the section Grants-in-Aid for Scientific Research of the JSPS website (<http://www.jsps.go.jp/j-grantsinaid/index.html>).

3. Notification of the Screening Results

- 1) The results of the examination performed by the screening panels will be notified to the research institution in writing (planned for August).
- 2) If researchers whose applications have not been accepted, wish to have the results of document-based screening, the approximate ranking per area and the score (average score) and the “standard-format opinion” given by the judges of the screening committee for each element which is taken into account when rating will be disclosed through the electronic application system.

(Reference 2) Procedures on the Handling of Grants-in-Aid for Scientific Research

(March 30, 1965
Announcement of the MEXT No. 110)

Revision: Bunkoku No. 309 of 1968, Bunkoku No. 159 of 1981, Bunkoku No. 127 of 1985, Bunkoku No. 156 of 1986, Bunkoku No. 35 of 1998, Bunkoku No. 114 of 1999, Bunkoku No. 181 of 2000, Bunkoku No. 72 of 2001, Bunkoku No. 133 of 2001, Bunkoku No. 123 of 2002, Bunkoku No. 149 of 2003, Bunkoku No. 68 of 2004, Bunkoku No. 134 of 2004, Bunkoku No. 1 of 2005, Bunkoku No. 37 of 2006, Bunkoku No. 45 of 2007, and Bunkoku No. 64 of 2008.

Procedures on the Handling of Grants-in-Aid for Scientific Research are stipulated as follows.

Procedures on the Handling of Grants-in-Aid for Scientific Research

(Purpose)

Article 1 The handling of Grants-in-Aid for Scientific Research should comply with the Law Concerning the Optimization of Budgets for Subsidiaries (No. 179, 1955, hereinafter “the Law”) and the ordinance for the enactment of the Law Concerning the Optimization of Budgets for Subsidiaries (No. 255, 1955) and with the elements stipulated in these rules.

(Definitions)

Article 2 In these rules, a “Research Institution” is an institution in which academic research is conducted. The items listed below fall under the definition of “Research Institution”.

- (1) Universities or inter-university research institutions (including corporations that run such organizations and are designated by the Minister of Education, Culture, Sports, Science and Technology, as required by elements stipulated separately)
- (2) MEXT’s facilities and other organizations engaged in scientific research
- (3) Technical colleges
- (4) Laboratories and other institutions run by the national or local government, corporations based on a special law, laboratories run by such corporations or corporations based on Article 34 of the Civil Law (No. 89, 1996), that the Minister of Education, Culture, Sports, Science and Technology designates for scientific research, as required by elements stipulated separately.

2. In these rules, the “Principal Investigator” is the researcher who bears the responsibility for the implementation of the project in question as a member of that project that is the object of funding of a grant-in-aid for scientific research, as stipulated in article 2 clause 3 of the Law.
3. In these rules, the “Co-Investigator” (*kenkyū-buntansha*) is a researcher who conducts the project in question in cooperation with the Principal Investigator as a member of that project that is the object of funding of a grant-in-aid for scientific research and in which two or more researchers jointly conduct one research project.
4. In these rules, the “Co-Investigator” (*renkei-kenkyūsha*) is a researcher who participates to research that is a project that is the object of funding of a grant-in-aid for scientific research, in cooperation with the Principal Investigator or the Co-Investigator(s) (*kenkyū-buntansha*), and under the supervision of the Principal Investigator or the Co-Investigator(s) (*kenkyū-buntansha*).
5. In these rules, a “Research Collaborator” is a person, other than the Principal Investigator, the Co-Investigator(s) (*kenkyū-buntansha*) or the Co-Investigator(s) (*renkei-kenkyūsha*), who collaborates in research that is a project that is the object of funding of a grant-in-aid for scientific research.
6. In these rules, “illicit use” is use of the grant-in-aid for scientific research for other purposes, intentionally or by gross negligence, or use that violates the content of the decision to fund the grant-in-aid for scientific research, or the conditions it implies.
7. In these rules, “illicit activities” are forgery, manipulation or plagiarism of data, information or survey results that are appearing in published research results within a project that is the object of funding of a grant-in-aid for scientific research.
8. Among the institutions to which belong people who engage in research and who contribute to the promotion of science, the research laboratories and other institutions or corporations mainly engaging in research (that are established by a corporation or another legal person that is set up according to the laws and ordinances of Japan) are considered as “research institutions”, as mentioned in this clause, if they are designated by the Minister of Education, Culture, Sports, Science and Technology, as required by elements stipulated separately.

(The objects of Grants-in-Aid for Scientific Research)

Article 3 Grants-in-Aid for Scientific Research shall mean funding for projects listed under each of the following points.

- (1) Basic research activities that are scientifically important and are conducted by a researcher either individually or in as a team of two or more researchers on the same project. This research may also include practical research that is in an elementary stage.
- (2) Results of scientific research made public by an individual or a scientific organization

(hereinafter “publication of research results”)

- (3) Other projects concerning academic research, as stipulated separately by the Minister of Education, Culture, Sports, Science and Technology.
2. Based on the rules in Article 15, Number 1 of the Law on the Japan Society for the Promotion of Science (Law No. 159 of 2002), the Minister of Education, Culture, Sports, Science and Technology provides Grants-in-Aid for Scientific Research to projects conducted by the Japan Society for the Promotion of Science (hereinafter called “JSPS”), as required by elements stipulated separately.

(Projects for which no Grants-in-Aid for Scientific Research will be provided)

Article 4 Notwithstanding of the previous article, no Grants-in-Aid for Scientific Research will be funded for a period stipulated in each of the following numbered points for projects that are conducted by persons (including academic societies, and this also applies for the articles mentioned below) who are mentioned in the following numbered points. However, this does not apply to projects other than projects of which the decision to provide the funding of grants-in-aid for scientific research has been cancelled (hereinafter “project subject to grant cancellation”), according to Clause 1, Article 17 of the Law, for which persons mentioned in number 4 receive funding, and to projects that are conducted based on a plan identical to the proposal for grant-in-aid mentioned in Clause 1 and Clause 3, Article 6.

- (1) A person who made fraudulent use of a grant-in-aid for scientific research in a project subject to grant cancellation: from 2 to 5 years starting from the next fiscal year following the fiscal year in which that person has been ordered to refund the grant-in-aid for scientific research related to a project subject to grant cancellation, in accordance with Clause 1, Article 18 of the Law. The exact length of the period deemed appropriate (between 2 and 5 years) will be decided, taking into consideration the content of the fraudulent use in question and other factors.
- (2) A person who conspired with a person as mentioned in the previous point in fraudulent use of a grant-in-aid for scientific research: the same period as the period during which no grant will be funded for the project conducted by the person mentioned in the previous point, in accordance with the rule in the previous point.
- (3) A member of a project subject to grant cancellation who used a grant-in-aid for scientific research in violation of Clause 1, Article 11 of the Law: 2 years starting from the next fiscal year following the fiscal year in which that member has been ordered to refund the grant-in-aid for scientific research related to a project subject to grant cancellation. (This does not apply to persons mentioned in the previous point 2.)
- (4) A Principal Investigator or a Co-Investigator (*kenkyū-buntansha*) who conducted a project

subject to grant cancellation in cooperation with a Principal Investigator or a Co-Investigator (*kenkyū-buntansha*) who falls under point 1. or 3. (except persons mentioned under the previous point; the same applies to the points below), or a Principal Investigator or a Co-Investigator (*kenkyū-buntansha*) of a project subject to grant cancellation in which a Co-Investigator (*renkei-kenkyūsha*) who falls under point 1. participated, or a Principal Investigator or a Co-Investigator (*kenkyū-buntansha*) of a project subject to grant cancellation in which a Research Collaborator who falls under the same point 1. cooperated: 1 year following the fiscal year in which he/she has been ordered to refund the grant-in-aid for scientific research related to a project subject to grant cancellation, in accordance with Clause 1, Article 18 of the Law.

- (5) A person who obtained funding by a grant-in-aid for scientific research by deceit or other fraudulent means, or a person who conspired in this deceit or other fraudulent means: 5 years starting from the next fiscal year following the fiscal year in which that person has been ordered to refund the grant-in-aid for scientific research.
 - (6) A person of whom it has been established that he/she committed fraudulent acts (including cases where it has been established that the person bears responsibility for the content of a research paper that is connected with to research results of which it has been established that fraudulent acts have been committed): from 1 to 10 years starting from the next fiscal year following the fiscal year in which is has been established that the fraudulent acts in question have been committed. The exact length of the period deemed appropriate (between 1 and 10 years) will be decided in the Academic Deliberation Council for Science and Technology, taking into consideration the content of the fraudulent acts in question and other elements.
2. Notwithstanding the previous article, no Grants-in-Aid for Scientific Research will be provided during a period stipulated separately by the Minister of Education, Culture, Sports, Science and Technology for projects conducted by persons who are listed under each of the following points, and of whom it has been decided that no benefit that is provided by the state or by independent administrative legal entities, as stipulated separately by the Minister of Education, Culture, Sports, Science and Technology (hereinafter called “particular benefit”), will be provided for a certain period.
- (1) a person who used a particular benefit for other purposes than the one is intended for, or a person who conspired in use for other purposes in question.
 - (2) for a project that is the object of funding of a particular benefit, a person who violated the content of the decision to fund him/her a particular benefit, the conditions connected to that funding and other laws and ordinances, or the punishment based on these laws and ordinances by the head of an independent administrative legal entity or a national institution.
 - (3) a person who obtained the funding a particular benefit by deceit or other fraudulent means,

or a person conspired in its use by deceit or other fraudulent means.

- (4) a person of whom it has been established that he/she committed fraudulent acts in a project funded with a particular benefit.

(Applicants for a Grant)

Article 5 The following persons can apply for Grants-in-Aid for Scientific Research mentioned in Numbers 1 and 2, Clause 1, Article 3 (excluding grants mentioned in Clause 2 of the same article; hereinafter called “grant”).

- (1) The representative of the researchers who conduct scientific research funded with grants for scientific research.
- (2) An individual who publishes research results or the representative of an academic society that publishes such results funded with grants for the publication of research results.

(Proposal for grant-in-aid)

Article 6 Persons who attempt to apply for grants (excluding persons who conduct screening and evaluation in JSPS) shall mean persons who beforehand submit a Proposal for Grant-in-Aid on the scientific research or the publication of research results, in a form that is stipulated separately, to the Minister of Education, Culture, Sports, Science and Technology.

- 2 The submission deadline for the Proposal for Grant-in-Aid mentioned in the previous section is announced every year by the Minister of Education, Culture, Sports, Science and Technology.
- 3 Persons who attempt to apply for grants, although they conduct screening and evaluation in JSPS, shall mean persons who submit Proposals for Grant-in-Aid concerning their scientific research and other matters to JSPS, as required by elements stipulated separately.
- 4 The deadline for the abovementioned submission of a proposal for grant-in-aid is announced by JSPS every year.

(Decisions concerning the grants)

Article 7 The Minister of Education, Culture, Sports, Science and Technology decides on the persons who attempt to obtain grants and on the planned amount that they attempt to obtain (hereinafter called the “amount planned to be provided”), based on the Proposal for Grant-in-Aid mentioned in Clause 1 and 3 of the previous article, and beforehand notifies the amount planned to be provided to this person.

- 2 When deciding on the persons who attempt to obtain grants and the amount planned to be provided, the Minister of Education, Culture, Sports, Science and Technology hears the opinion of the Academic Deliberation Council for Science and Technology concerning the Proposals for Grant-in-Aid that have been submitted to the Minister of Education, Culture, Sports, Science

and Technology. However, in accordance with the provisions of Clause 3 of the previous article, concerning Proposals for Grant-in-Aid that have been submitted to JSPS, receiving a report from JSPS is sufficient, and it is not necessary to hear the opinion of the Academic Deliberation Council for Science and Technology.

Article 8 When persons who received the notification mentioned in Clause 1 of the previous article attempt to apply for grants, they have to submit a grant application form of which the form has been stipulated separately to the Minister of Education, Culture, Sports, Science and Technology, by the time to be prescribed by the Minister of Education, Culture, Sports, Science and Technology.

2 Based on the grant application form mentioned in the previous clause, the Minister of Education, Culture, Sports, Science and Technology decides on the provision of the grant, and notifies the contents of this decision and, in case conditions have been attached to it, these conditions to the person who applied for a grant.

(Changes in the scientific research and other matters)

Article 9 When recipients of a grant attempt to change the contents of the scientific research and other matters or the allocation of the budget (excluding minor changes stipulated separately by the Minister of Education, Culture, Sports, Science and Technology), they should beforehand obtain the approval of the Minister of Education, Culture, Sports, Science and Technology.

(Limitation on the use of the grant)

Article 10 The recipients of a grant should restrict the use of the grant to the costs necessary for the scientific research etc.

(Report on results)

Article 11 Upon completing scientific research etc., the recipients of the grant should promptly fill in and submit the form for reporting the results to the Minister of Education, Culture, Sports, Science and Technology. This also applies where the fiscal year concerning the decision concerning the relevant grant has terminated. The form for the report is available elsewhere.

2 In case there is equipment, furnishings or books (hereinafter called “equipment”) that has been purchased using the grant, a detailed statement on the purchase of equipment and other matters should be attached to the report on results mentioned in the previous clause, using a form stipulated separately.

3 A report on results mentioned in the latter part of the clause 1 should be attached with a document specifying a plan on the scientific research etc. scheduled for the fiscal year that follows.

(Final decision concerning the amount of the grant)

Article 12 After receiving the report mentioned in the early part of Clause 1 in the previous article, the Minister of Education, Culture, Sports, Science and Technology checks the report and conducts an investigation, as necessary. If JSPS concludes that the result of the scientific research etc. agrees with the decision concerning the grant and conditions included in it, JSPS may decide the amount of the grant and report it to the relevant recipient.

(Arrangement and storage of accounts and other matters)

Article 13 Recipients of a grant should retain the accounts on the balance of the grant, retain the receipts and other related documents, and store these accounts and documents for five years after the end of the fiscal year in which the grant has been provided.

(Investigation on accounting)

Article 14 When deemed necessary, the Minister of Education, Culture, Sports, Science and Technology may investigate or issue directives concerning the grant recipient's accounting or demand that a recipient reports on its accounting.

(Investigation on the state of the research and other matters)

Article 15 When deemed necessary, the Minister of Education, Culture, Sports, Science and Technology may request that a grant recipient files a report on the status of his/her scientific research and other matters, or may investigate the status of his/her scientific research and other matters.

(Publication of progress of research)

Article 16 In printing or publication by other means, the Minister of Education, Culture, Sports, Science and Technology may publish all or part of descriptions in the report of results of scientific research and the report mentioned in the previous article that concern the progress of research.

(Donation of equipment and suchlike)

Article 17 If the recipient of a grant mentioned in (1) of Article 5 partly appropriated the grant to the purchase of equipment etc. the recipient should promptly donate the equipment etc. to one or more of the research institutions that the recipient belongs to.

2 In the event that promptly donating the equipment and other things causes inconvenience to the research, recipients of grants mentioned in (1) of Article 5 are allowed not to donate the equipment in question, until the inconvenience to the research in question is resolved, provided that they obtained the approval of the Minister of Education, Culture, Sports, Science and Technology. This applies notwithstanding the provisions in the previous clause.

Article 18 The Minister of Education, Culture, Sports, Science and Technology decides separately on necessary issues concerning Grants-in-Aid for Scientific Research mentioned in Article 3, Clause 1, Number 3.

(Other)

Article 19 The Minister of Education, Culture, Sports, Science and Technology decides on necessary issues concerning the handling of grants other than the issues that have been stipulated in these rules, as they arise.

Additional Rules

These rules take effect from April 1, 1965.

Additional Rule (Bunkoku 309 of November 30, 1968)

These rules take effect from November 30, 1968).

Additional Rule (Bunkoku 159 of October 15, 1981)

This Announcement will be enforced from the day of its promulgation.

Additional Rule (Bunkoku 127 of November 2, 1985)

This Announcement will be enforced from November 2, 1985, and will take effect for grants after FY1985.

Additional Rule (Bunkoku 156 of December 25, 1986)

This Announcement will be enforced from December 25, 1986, and will take effect for grants after FY1986.

Additional Rule (Bunkoku 35 of March 19, 1998)

This Announcement will be enforced from March 19, 1998, and will take effect for grants after FY1998.

Additional Rule (Bunkoku 114 of May 17, 1999)

This Announcement will be enforced from the day of its promulgation and will take effect from April 11, 1999.

Additional Rule (Bunkoku 181 of December 11, 2000)

This Announcement will be enforced from the day (January 6, 2001) of the enforcement of the Law Revising a Part of the Cabinet Act (Law No. 88 of 1999).

Additional Rule (Bunkoku 72 of April 19, 2001)

This Announcement will be enforced from the day of its promulgation and will take effect from April 19, 2001.

Additional Rule (Bunkoku 133 of August 2, 2001)

1 This Announcement will be enforced from the day of its promulgation.

- 2 Legal entities that, at the time of the enforcement of this announcement, are actually research institutions according to the rules in Article 2, Number 3 of the Rules for the Handling of Grants-in-Aid for Scientific Research before the revision, and institutions that, at the time of the enforcement of this announcement, actually received the designation according to the rules in Number 4 of the same article, will be considered as research institutions that received the designation according to the rules in Article 2, Number 4 of the revised Rules for the Handling of Grants-in-Aid for Scientific Research.

Additional Rule (Bunkoku 123 of June 28, 2002)

This Announcement will be enforced from the day of its promulgation and will take effect for grants after FY2002.

Additional Rule (Bunkoku 149 of September 12, 2003)

- 1 However, the revised rules in Article 3, Clause 2, the revised rules in Article 5, Clause 1, Clause 3 and Clause 4, and the revised rules in Article 6, Clause 2 will be enforced from October 1, 2003.
- 2 The rules in Article 3, Clause 3 of the revised Rules for the Handling of Grants-in-Aid for Scientific Research, that are stipulated in this Announcement, will not apply for projects conducted by researchers who in the past conducted a project subject to grant cancellation of which the day when the refunding of the Grant-in-Aid for Scientific Research is ordered falls before the day of the enforcement of this Announcement.

Additional Rule (Bunkoku 68 of April 1, 2004)

- 1 This Announcement will be enforced from April 1, 2004.
- 2 The rules in Article 3, Clause 3, Number 3 of the revised Rules for the Handling of Grants-in-Aid for Scientific Research, that are stipulated in this Announcement, will not apply to researchers who conducted a project subject to grant cancellation, using a Grant-in-Aid for Scientific Research of which the decision to fund was made before the enforcement of this Announcement.

Additional Rule (Bunkoku 1 of January 24, 2005)

- 1 This Announcement will be enforced from the day of its promulgation.
- 2 The rules in Article 3, Clause 4 and Clause 5 of the revised Rules for the Handling of Grants-in-Aid for Scientific Research, that are stipulated in this Announcement, will not apply to projects conducted by researchers who conducted a project of which the day when the refunding of the Grant-in-Aid for Scientific Research is ordered falls before the day of the enforcement of this Announcement, or researchers who conspired with these researchers in question.

Additional Rule (Bunkoku 37 of March 27, 2006)

This Announcement will be enforced from April 1, 2006.

Additional Rule (Bunkoku 45 of March 30, 2007)

This Announcement will be enforced from April 1, 2007.

Additional Rule (Bunkoku 64 of May 19, 2008)

- 1 This Announcement will take effect from May 19, 2008, and will take effect for grants after FY2008. However, the revised rules in Article 2, Clause 1, Number 4 take effect from the day of the enforcement of the Law on the Adjustment of Related Laws Upon the Enforcement of the Law on General Corporate Juridical Persons and General Foundational Juridical Persons, and the Law on the Authorization of Public Interest Incorporated Associations and Public Interest Incorporated Foundations (Law No. 50 of 2006).
- 2 The rules in Article 4, Clause 1, Number 1 and Number 3 of the revised Rules for the Handling of Grants-in-Aid for Scientific Research (hereinafter called “New Rules”), stipulated in this Announcement, do not apply to persons who committed illicit use of grants in projects of which the decision to fund the Grant-in-Aid for Scientific Research has been cancelled, in accordance with the rules in Article 17, Clause 1 of the Law Concerning the Optimization of the Enforcement of Budgets for Grants (Law No. 179 of 1955; hereinafter called “the Law”), and of which the day when the refunding of the Grant-in-Aid for Scientific Research is ordered falls before September 12, 2003, in accordance with the rules in Article 18, Clause 1 of the Law. The rules in Article 4, Clause 1, Number 1 and Number 3 of the New Rules do not apply either to recipients of funded projects who conducted use of Grants-in-Aid for Scientific Research in violation of the rules in Article 11, Clause 1 of the Law (excluding persons who are defined as recipients of funded projects according to the Article 2, Clause 3 of the Law and who fall under Article 4, Clause 1, Number 1 or Number 2 of the New Rules).
- 3 The rules in Article 4, Clause 1, Number 4 of the New Rules do not apply to Principal Investigators or Co-Investigators (*kenkyū-buntansha*) of projects of which the decision to fund has been taken before April 1, 2004.
- 4 The rules in Article 4, Clause 1, Number 2 and Number 5 of the New Rules do not apply to persons who conspired in the fraudulent use of Grants-in-Aid for Scientific Research, or persons who received the funding of Grants-in-Aid for Scientific Research by deceit or other fraudulent means, or persons who conspired in the use of deceit or other fraudulent means in question, in projects of which the day when the refunding of the Grant-in-Aid for Scientific Research is ordered falls before January 24, 2005.

(Reference 3) Procedures on the Handling of JSPS Grants-in-Aid for Scientific Research (KAKENHI (Series of Single-year Grants))

(Rule No. 17, October 7, 2003)

Revision: Rule No. 9, April 14, 2004
Revision: Rule No. 14, September 10, 2004
Revision: Rule No. 1, February 2, 2005
Revision: Rule No. 7, April 7, 2005
Revision: Rule No. 9, April 14, 2006
Revision: Rule No. 12, April 2, 2007
Revision: Rule No. 9, June 10, 2008
Revision: Rule No. 6, April 19, 2010
Revision: Rule No. 21, September 7, 2010
Revision: Rule No. 18, April 25, 2011
Revision: Rule No. 20, April 28, 2011

(General rules)

Article 1 The handling of Grants-in-Aid for Scientific Research (KAKENHI (Series of Single-year Grants)), hereinafter “grants”) provided by the Japan Society for the Promotion of Science (hereinafter “JSPS”) should comply with the Law Concerning the Optimization of Budgets for Subsidiaries (No. 179, 1955, hereinafter “the Law”), the ordinance for the enactment of the Law Concerning the Optimization of Budgets for Subsidiaries (No. 255, 1955), Japan Society for the Promotion of Science Act (No. 159, 2002) and the handling rules for the Grants-in-Aid for Scientific Research (notification by Ministry of Education, No. 110, 1965, hereinafter “Handling Rules”) and the Procedures on the Handling of JSPS Grants-in-Aid for Scientific Research (KAKENHI (Series of Single-year Grants)) (hereinafter “Handling Procedures”).

(Objectives)

Article 2 The aim of the Handling Procedures is to specify items for handling the object, application, granting and suchlike concerning a grant provided by JSPS to researchers so that the grant can be appropriately and efficiently used in compliance with Clause 1, Article 16 of the Requirements for Grants-in-Aid for Scientific Research (scientific research etc.) (decision by the Minister of Education, April 12, 1999, hereinafter “Grant Requirements”) and Article 14 of Japan Society for the Promotion of Science Work Procedures (Rule No. 1, 2003).

(Definitions)

Article 3 In the Handling Procedures, Grants-in-Aid for Scientific Research (Scientific Research etc.) refers to the following items as specified in Article 3 of the Grant Requirements.

- (1) The cost of scientific research that concerns:
 - a) Specially Promoted Research
 - b) Scientific Research;
 - c) Challenging Exploratory Research;
 - d) Young Scientists ;
 - e) Research Activity Start-up; or
 - f) Encouragement of Scientists
 - (2) Grant-in-Aid for JSPS Fellows
 - (3) Grant-in-Aid for Creative Scientific Research
 - (4) Grant-in-Aid for Publication of Scientific Research Results (except those concerning the publication of research results)
2. In these Handling Procedures, a “research institution” refers to an institution as stipulated in Clause 1, Article 2 of the Handling Rules and to an institution in accordance with Clause 8 of the same Article. A research institution is an institution in which academic research is conducted and which falls under any of the definitions mentioned under points 1 to 4 and under point 5.
- (1) Universities or inter-university research institutions (including corporations that run such organizations and are designated by the Minister of Education, Culture, Sports, Science and Technology)
 - (2) MEXT’s facilities and other organizations engaged in scientific research
 - (3) Technical colleges
 - (4) Laboratories and other institutions run by the national or local government, corporations based on a special law, laboratories run by such corporations or corporations based on Article 34 of the Civil Law (No. 89, 1996), that the Minister of Education, Culture, Sports, Science and Technology designates for scientific research
 - (5) Among the institutions to which belong people who engage in research and who contribute to the promotion of science, the research laboratories and other institutions or corporations mainly engaging in research (that are established by a corporation or another legal person that is set up according to the laws and ordinances of Japan) are considered as “research institutions”, as mentioned in this clause, if they are designated by the Minister of Education, Culture, Sports, Science and Technology.
3. In these Handling Procedures the “Principal Investigator” is the researcher who bears the responsibility for the implementation of the project in question as a member of that project that

is the object of funding of a grant-in-aid for scientific research, as stipulated in article 2 clause 3 of the Law.

4. In these Handling Procedures the “Co-Investigator” (*kenkyū-buntansha*) is a researcher who conducts the project in question in cooperation with the Principal Investigator as a member of that project that is the object of funding of a grant-in-aid for scientific research and in which two or more researchers jointly conduct one research project.
5. In these Handling Procedures the “Co-Investigator” (*renkei-kenkyūsha*) is a researcher who participates to research that is a project that is the object of funding of a grant-in-aid for scientific research, in cooperation with the Principal Investigator or the Co-Investigator(s) (*kenkyū-buntansha*), and under the supervision of the Principal Investigator or the Co-Investigator(s) (*kenkyū-buntansha*).
6. In these Handling Procedures a “Research Collaborator” is a person, other than the Principal Investigator, the Co-Investigator(s) (*kenkyū-buntansha*) or the Co-Investigator(s) (*renkei-kenkyūsha*), who collaborates in research that is a project that is the object of funding of a grant-in-aid for scientific research.
7. In these Handling Procedures “illicit use” is use of the grant-in-aid for scientific research for other purposes, intentionally or by gross negligence, or use that violates the content of the decision to fund the grant-in-aid for scientific research, or the conditions it implies.
8. In these Handling Procedures “illicit activities” are forgery, manipulation or plagiarism of data, information or survey results that are appearing in published research results within a project that is the object of funding of a grant-in-aid for scientific research.

(The objects of grants)

Article 4 Projects that are object of funding (hereinafter “funded project(s)”) with grants should meet the following conditions.

- (1) Basic research activities that are scientifically important and are conducted by a researcher either individually or in as a team of two or more researchers on the same project. This research may also include practical research that is in an elementary stage.
 - (2) Results of scientific research made public by an individual or a scientific organization (hereinafter “publication of research results”)
2. The funded costs should be those necessary for a funded project and deemed by JSPS as deserving of a grant.

(Projects for which no grants will be provided)

Article 5 Notwithstanding Clause 1 of the previous article, no grant will be funded for a period stipulated in each of the following numbered points for projects that are conducted by persons

(including academic societies, and this also applies for the articles mentioned below) who are mentioned in the following numbered points. However, this does not apply to projects other than projects of which the decision to provide the funding of grants-in-aid for scientific research has been cancelled (hereinafter “project subject to grant cancellation”), according to Clause 1, Article 17 of the Law, for which persons mentioned in number 4 receive funding, and to projects that are conducted based on a plan identical to the proposal for grant-in-aid mentioned in Clause 1, Article 7.

1. A person who made fraudulent use of a grant-in-aid for scientific research in a project subject to grant cancellation:
from 2 to 5 years starting from the next fiscal year following the fiscal year in which that person has been ordered to refund the grant-in-aid for scientific research related to a project subject to grant cancellation, in accordance with Clause 1, Article 18 of the Law. The exact length of the period deemed appropriate (between 2 and 5 years) will be decided, taking into consideration the content of the fraudulent use in question and other factors.
2. A person who conspired with a person as mentioned in the previous point in fraudulent use of a grant-in-aid for scientific research:
the same period as the period during which no grant will be funded for the project conducted by the person mentioned in the previous point, in accordance with the rule in the previous point.
3. A member of a project subject to grant cancellation who used a grant-in-aid for scientific research in violation of Clause 1, Article 11 of the Law:
2 years starting from the next fiscal year following the fiscal year in which that member has been ordered to refund the grant-in-aid for scientific research related to a project subject to grant cancellation. (This does not apply to persons mentioned in the previous point 2.)
4. A Principal Investigator or a Co-Investigator (*kenkyū-buntansha*) who conducted a project subject to grant cancellation in cooperation with a Principal Investigator or a Co-Investigator (*kenkyū-buntansha*) who falls under point 1. or 3. (except persons mentioned under the previous point; the same applies to the points below), or a Principal Investigator or a Co-Investigator (*kenkyū-buntansha*) of a project subject to grant cancellation in which a Co-Investigator (*renkei-kenkyūsha*) who falls under point 1. participated, or a Principal Investigator or a Co-Investigator (*kenkyū-buntansha*) of a project subject to grant cancellation in which a Research Collaborator who falls under the same point 1. cooperated:
1 year following the fiscal year in which he/she has been ordered to refund the grant-in-aid for scientific research related to a project subject to grant cancellation, in accordance with Clause 1, Article 18 of the Law.
5. A person who obtained funding by a grant-in-aid for scientific research by deceit or other

fraudulent means, or a person who conspired in this deceit or other fraudulent means:

5 years starting from the next fiscal year following the fiscal year in which that person has been ordered to refund the grant-in-aid for scientific research.

6. A person of whom it has been established that he/she committed fraudulent acts (including cases where it has been established that the person bears responsibility for the content of a research paper that is connected to research results of which it has been established that fraudulent acts have been committed): from 1 to 10 years starting from the next fiscal year following the fiscal year in which it has been established that the fraudulent acts in question have been committed. The exact length of the period deemed appropriate (between 1 and 10 years) will be decided, taking into consideration the content of the fraudulent acts in question and other elements.
2. Notwithstanding the provision of Clause 1 of the previous Article, no KAKENHI (Series of Single-year Grants) will be awarded for a period during which it has been decided that no funding provided from the KAKENHI Multi-year Fund will be awarded for projects that are conducted by persons of whom it has been decided that no funding provided from the KAKENHI Multi-year Fund (hereinafter “KAKENHI (Multi-year Fund)”) in accordance with the provision of Clause 1, Article 18 of the Japan Society for the Promotion of Science Act will be funded for a certain period and who are mentioned in each of the following numbered points. However, this does not apply to projects for which persons mentioned in point 4 already receive funding, and to projects conducted based on a plan identical to the proposal for grant-in-aid mentioned in Clause 1, Article 7.
 - (1) Persons who made fraudulent use of a KAKENHI (Multi-year Fund).
 - (2) Persons who conspired in the fraudulent use of a KAKENHI (Multi-year Fund).
 - (3) Members of a funded project who made use of a KAKENHI (Multi-year Fund) in violation of the provision of Clause 1, Article 11 of the Law which will be applied *mutatis mutandis* pursuant to the provision of Clause 2, Article 17 of the Japan Society for the Promotion of Science Act (This does not apply to persons who fall under the previous point 2).
 - (4) Principal Investigators or Co-Investigators (*kenkyū-buntansha*) who conducted a project for which the decision to grant the funding has been cancelled (hereinafter “funded project subject to grant cancellation”) in cooperation with a Principal Investigator or a Co-Investigator (*kenkyū-buntansha*) who falls under points 1 or 3 (This does not apply to persons mentioned under the previous point; the same applies to the points below), or Principal Investigators or Co-Investigators (*kenkyū-buntansha*) of a funded project subject to grant cancellation in which a Co-Investigator (*renkei-kenkyūsha*) who falls under point 1 participated or a funded project subject to grant cancellation in which a Research Collaborator who falls under the same point collaborated.
 - (5) Persons who obtained funding of a KAKENHI (Multi-year Fund) by deceit or other

fraudulent means, or a person who conspired in this deceit or other fraudulent means.

(6) Persons of whom it has been established that they committed fraudulent acts.

3. Notwithstanding Clause 1 of the previous article, a grant will not be granted for a period stipulated in Article 2 of the Decision of the Minister of Education, Culture, Sports, Science and Technology of August 24, 2004 for projects conducted by a person mentioned in each of the following numbered points, about whom it has been decided not to provide him/her a particular benefit for a fixed period, as stipulated in Article 1.

(1) a person who used a particular benefit for other purposes than the one it is intended for, or a person who conspired in use for other purposes in question.

(2) for a project that is the object of funding of a particular benefit, a person who violated the content of the decision to fund him/her a particular benefit, the conditions connected to that funding and other laws and ordinances, or the punishment based on these laws and ordinances by the head of an independent administrative legal entity or a national institution.

(3) a person who obtained the funding a particular benefit by deceit or other fraudulent means, or a person conspired in its use by deceit or other fraudulent means.

(4) a person of whom it has been established that he/she committed fraudulent acts in a project funded with a particular benefit.

(Applicants for a Grant)

Article 6 Persons are eligible to apply for a grant mentioned in Clause 1, Article 4, should meet the following requirements.

(1) Applicants for a grant concerning scientific research should fall into the following categories:

a) If researchers who belong to a research institution conduct scientific research, the representative of the researchers who conduct the scientific research in question;

b) If one researcher (excluding JSPS Fellows) who does not belong to a research conducts scientific research alone, that researcher in question;

c) If a JSPS Fellow conducts scientific research, that JSPS Fellow in question;

d) If a Foreign JSPS Fellow and a host researcher jointly conduct scientific research, the host researcher

(2) An individual who publishes research results or the representative of an academic society that publishes such results funded with grants for the publication of research results.

(Proposal for grant-in-aid)

Article 7 An application for a grant requires that a proposal for grant-in-aid on scientific research or the publication of research results (hereinafter “scientific research etc.”) be submitted to JSPS. The form for the proposal for grant-in-aid is available.

2. The deadline for the abovementioned submission of a proposal for grant-in-aid is announced by JSPS every year.

(Notification of the planned amount of grant)

Article 8 In accordance with a proposal for grant-in-aid mentioned in Clause 1 of the previous article, JSPS should decide the recipient of a grant and the planned amount of money given to the recipient (hereinafter “planned amount of grant”) and report the amount to the recipient in advance.

(Allocation of the screening and other matters)

Article 9 When making decisions concerning the recipient of a grant or the planned amount of a grant in accordance with the previous article, JSPS should consult the Grants-in-Aid for Scientific Research Committee to discuss issues concerning the allocation of grants and suchlike.

2. Rules on the organization and operation of the abovementioned committee are stated elsewhere.

(Grant application form)

Article 10 When filing an application for a grant, an applicant who received a notification mentioned in Article 8 should fill in and submit the grant application form to JSPS by the deadline specified by JSPS.

(Decisions concerning the grants)

Article 11 Upon receiving a request for a grant in accordance with the previous article, JSPS should check documents concerning the request and conduct field survey or suchlike necessary, to make sure that the project deserves the grant and the calculation of the amount of the grant is not erroneous.

2. If JSPS considers that a grant should be given as a result of the abovementioned survey, it should promptly decide on providing the grant.
3. JSPS stipulates the following requirements for providing a grant.
 - (1) A change in details and cost allocation of scientific research etc. conducted by a grant recipient requires that the approval of JSPS be obtained in advance.

However, this may not apply to a minor change that is decided by JSPS in consultation with the Minister of Education, Culture, Sports, Science and Technology without compromising the objective of the funded project.

- (2) Grant recipients should obtain the approval of JSPS in stopping or discontinuing a funded project.
 - (3) If a funded project cannot be completed within the scheduled period or if the fulfillment of a funded project seems too difficult, the grant recipient should promptly report it to JSPS and follow its directions.
 - (4) To sign a contract to fulfill a funded project and make the relevant payments, the grant recipient should, in compliance with the national contract and the provisions concerning payment, endeavor to maintain the high level of efficiency in the use of costs so that minimum and equitable costs can result in maximum benefit.
4. After making a decision concerning a grant, JSPS should promptly report details of the decision and the conditions it includes to the relevant applicant.

(Withdrawal of the application)

Article 12 An applicant for a grant may withdraw the application by the date specified by JSPS if the applicant receives the notification mentioned in Clause 4 of the previous article and if the applicant is dissatisfied with the details of the decision on a grant concerning the notification or conditions included in the decision.

2. Withdrawal of an application in accordance with the abovementioned provisions is considered that no decision on a grant to the relevant application has been made.

(Limitation on the use of the grant)

Article 13 The recipients of a grant should restrict the use of the grant to the costs necessary for the scientific research etc.

(Report on results)

Article 14 Upon completing scientific research etc., the recipients of the grant should promptly fill in and submit the form for reporting the results to JSPS. This also applies where the fiscal year concerning the decision concerning the relevant grant has terminated. The form for the report is available elsewhere.

2. A report on results mentioned in the latter part of the previous clause should be attached with a document specifying a plan on the scientific research etc. scheduled for the fiscal year that follows.

(Final decision concerning the amount of the grant)

Article 15 After receiving the report mentioned in the early part of Clause 1 in the previous article, JSPS checks the report and conducts an investigation, as necessary. If JSPS concludes that the

result of the scientific research etc. agrees with the decision concerning the grant and conditions included in it, JSPS may decide the amount of the grant and report it to the relevant recipient.

(Accounting Records and other documents)

Article 16 Recipients of a grant should retain the accounts on the balance of the grant and retain the receipts and other related documents for five years after the end of the fiscal year in which the grant has been provided.

2. If persons who did not submit the report on the research achievements by the time prescribed by JSPS in the previous Clause do not submit the report on the research achievements without particular reason by the time separately and additionally instructed by JSPS, JSPS will, notwithstanding the provisions of Article 8, not notify these persons of the amount planned to be provided. This also applies to persons who do not submit the report on the research achievements for KAKENHI (Series of Single-year Grants) mentioned in Clause 1, Article 13 of the Handling Rules, or the report on the research achievements for KAKENHI (Multi-year Fund) mentioned in Clause 1, Article 16 of the Procedures on the Handling of JSPS Grants-in-Aid for Scientific Research (KAKENHI (Multi-year Fund)), by the time instructed by the Minister of Education, Culture, Sports, Science and Technology or JSPS.
3. When persons about whom it has been decided not to notify the amount planned to be provided in accordance with the provisions of the previous Clause submit the report on the research achievements by the time instructed by JSPS of the Minister of Education, Culture, Sports, Science and Technology, JSPS will notify the amount planned to be provided afterwards, based on the provisions of Article 8.

(Investigation on accounting)

Article 17 When deemed necessary, JSPS may investigate or issue directives concerning the grant recipient's accounting or demand that a recipient reports on its accounting.

(Investigation on the state of the research and other matters)

Article 18 When deemed necessary, JSPS may demand that a grant recipient files a report on the status of its scientific research etc. and may also conduct an on-site investigation.

(Publication of progress of research)

Article 19 In printing or publication by other means, JSPS may publish all or part of descriptions in the report of results of scientific research and the report mentioned in the previous article that concern the progress of research.

(Publication of progress of research and research achievements)

Article 20 JSPS may publish all or part of the portion related to the progress of the research in the report on the results of the scientific research or the report mentioned in the previous Article, in print or other means.

2. JSPS may publish all or part of the report on the research achievements, in print or other means.

(Donation of equipment and suchlike)

Article 21 If the recipient of a grant mentioned in (1) a) of Article 6 partly appropriated the grant to the purchase of equipment etc., the recipient should promptly donate the equipment etc. to one or more of the research institutions that the recipient belongs to.

2. If the recipient of a grant mentioned in (1) b) of Article 6 partly appropriated the grant to the purchase of equipment etc. worth 50,000 yen or more, the recipient should donate the equipment etc. to a school or other educational or research institution no later than the termination of the research period.
3. If the recipient of a grant specified in (1) c) or d) in Article 6, Clause 1 partly appropriated the grant to the purchase of equipment etc. the recipient should promptly donate the equipment etc. to the research institution where he/she engages in research or to which he/she belongs.
4. Where it is deemed inconvenient for a grant recipient to promptly donate the purchased equipment etc. to the research institution, the equipment etc. may not be donated until the time the abovementioned donation is no longer likely to create such inconvenience, provided that JSPS's approval is obtained, notwithstanding the provisions in Clause 1.
5. Notwithstanding Clause 3, a special researcher may keep the purchased equipment etc. until when he/she is no longer qualified as a special researcher.

(Other)

Article 22 In addition to those specified in the Application Procedures, the rules necessary for the handling of grants should be provided elsewhere in the application guidelines and suchlike.

Additional Rules

The rules will be enforced on October 7, 2003 and take effect on October 1, 2003.

The provisions in Article 4-2 do not apply to a funded project that is going to be implemented by a researcher who, before September 12, 2003, was ordered to refund Grants-in-Aid for Scientific Research to his/her project subject to grant cancellation in accordance with Clause 1, Article 18 of the Law.

The JSPS's handling of Grants-in-Aid for Scientific Research before the day the Handling

Procedures take effect in compliance with JSPS Grants-in-Aid for Scientific Research (Scientific Research) Handling Procedures (Rule No. 6, June 9, 1999) is deemed as JSPS's handling of a grant in accordance with the relevant provisions in the Handling Procedures.

Additional Rule (No. 9, 2004)

1. Takes effect on April 1, 2004
2. Provisions in No. 3 of Clause 1, Article 4-2 do not apply to researchers who conducted a project subject to grant cancellation for which the grant was decided before the time the Rules take effect.

Additional Rule (No. 14, 2004)

Takes effect on August 27, 2004

Additional Rule (No. 1, 2005)

1. Takes effect on January 24, 2005
2. Clauses 2 and 3 of Article 4-2 do not apply to projects conducted by a researcher who was ordered to refund Grants-in-Aid for Scientific Research before the day the Rules take effect, or who conspired with such a researcher.

Additional Rule (No. 7, 2005)

Takes effect on April 1, 2005

Additional Rule (No. 9, 2006)

Takes effect on April 1, 2006

Additional Rule (No. 12, 2007)

Takes effect on April 1, 2007

Additional Rule (No. 9, 2008)

1. This rule was set up from June 10, 2008, and takes effect for the grants of FY2008 and later.
2. The rules No. 1 and No. 3 of clause 1, article 5 of the revised Handling Procedures (hereinafter "New Procedures") do not apply to persons who conducted illicit use in projects of which the decision to fund a grant was cancelled, or to project members who used a grant-in-aid for scientific research in a way that violates the rules under clause 1, article 11 of the Law, in projects of which the day when the return of the grant-in-aid for scientific research was ordered fell before September 12, 2003. This is in accordance with the rules of clause 1 of article 18 of

the Law. (This does not apply to the persons mentioned in No. 1 or No. 2, clause 1, article 5 of the New Procedures.)

3. The rule No. 4, clause 1, article 5 of the New Procedures does not apply to the Principal Investigator or the Co-Investigator(s) (*kenkyū-buntansha*) of projects of which the decision on funding of the grant was taken before April 1, 2004.
4. The rules No. 2 and No. 5, clause 1, article 5 of the New Procedures do not apply to persons who conspired in illicit use of grants-in-aid for scientific research, to persons who obtained a grant-in-aid for scientific research by deceit or by other illicit means, or to persons who conspired in this deceit or other illicit means in question, in projects of which the day when the return of the grant-in-aid for scientific research was ordered fell before January 24, 2005.

Additional Rule (No. 6, 2010)

Takes effect on April 1, 2010.

Additional Rule (No. 21, 2010)

Takes effect on September 7, 2010.

Additional Rule (No. 18, 2011)

Takes effect on April 1, 2011.

Additional Rule (No. 20, 2011)

Takes effect on April 28, 2011.

(Reference 4) State of Allocation of Grants-in-Aid for Scientific Research for FY2012 and Other Matters

1. State of Allocation of Grants-in-Aid for Scientific Research for FY2012

(1) New Projects

As of October 2012

Research category	Number of proposed projects			Amount allocated (1,000 yen)	Amount allocated per project (1,000 yen)	
	Applications #	Applications approved #	Approval rate %		Average	Maximum
Grants-in-aid for Scientific Research	[95,475] 92,604	[26,870] 25,825	[28.1] 27.9	[71,724,950] 66,888,620 【 19,953,996 】	[2,669] 2,590	[146,300] 152,500
Specially Promoted Research	[106] 114	[15] 18	[14.2] 15.8	[1,352,200] 1,462,000 【 438,600 】	[90,147] 81,222	[146,300] 152,500
Scientific Research on Priority Areas(*1)	[177] 9	[80] 9	[45.2] —	[239,600] 25,400	[2,995] 2,822	[3,300] 3,000
Scientific Research on Innovative Areas (Research in a proposed research area)	[5,908] 4,395	[1,334] 905	[22.6] 20.6	[7,536,650] 6,907,900 【 2,072,370 】	[5,650] 7,633	[129,100] 147,800
Scientific Research(S)	[513] 505	[90] 87	[17.5] 17.2	[3,382,300] 3,508,300 【 1,052,490 】	[37,581] 40,325	[87,300] 89,000
Scientific Research(A)	[2,180] 2,251	[565] 535	[25.9] 23.8	[7,478,000] 6,985,500 【 2,095,650 】	[13,235] 13,057	[32,900] 34,400
Scientific Research(B)(*2)	[10,127] 9,875	[2,592] 2,440	[25.6] 24.7	[14,688,900] 13,200,800 【 3,960,240 】	[5,667] 5,410	[14,300] 13,300
Scientific Research(C)(*3)	[32,177] 32,899	[9,620] 9,857	[29.9] 30.0	[15,564,500] 15,332,520 【 4,599,756 】	[1,618] 1,555	[4,200] 3,800
Challenging Exploratory Research(*3)	[12,734] 12,559	[3,809] 3,759	[29.9] 29.9	[5,916,100] 5,692,800 【 1,707,840 】	[1,553] 1,514	[3,400] 3,100
Young Scientists(A)(*2)	[1,907] 1,796	[459] 399	[24.1] 22.2	[3,859,300] 3,243,100 【 972,930 】	[8,408] 8,128	[21,700] 19,700
Young Scientists(B)(*3)	[22,688] 20,867	[6,787] 6,255	[29.9] 30.0	[10,396,800] 9,213,500 【 2,764,050 】	[1,532] 1,473	[3,400] 3,400
Research Activity Start-up	[3,220] 3,538	[819] 854	[25.4] 24.1	[960,600] 966,900 【 290,070 】	[1,173] 1,132	[1,500] 1,500
Encouragement of Scientists	[3,738] 3,796	[700] 707	[18.7] 18.6	[350,000] 349,900	[500] 495	[900] 800
Publication of Scientific Research Results	[1,045] 961	[521] 491	[49.9] 51.1	[1,139,090] 1,029,060	[2,186] 2,096	[26,900] 20,000
Grants-in-aid for JSPS Fellows	[2,619] 2,728	[2,619] 2,728	[—] —	[1,865,400] 2,554,100	[712] 936	[2,500] 3,000
Total	[99,139] 96,293	[30,010] 29,044	[30.3] 30.2	[74,729,440] 70,471,780 【 19,953,996 】	[2,490] 2,426	[146,300] 152,500

Notes:

- The figures in [] indicate the previous fiscal year.
- The figures in 【 】 indicate indirect costs (excluded from the total).
- (*1) No call issued in FY 2012 for projects in new or continuing areas. The only call issued is for projects that collate the results of research areas set to have ended in FY 2011.
- (*2) As a portion of these grants is covered under the multi-year Fund, the columns "Amount allocated" and "Amount allocated per project" are calculated based on the projects' initial plans for FY 2012.
- (*3) As these grants are covered under the multi-year Fund, the columns "Amount allocated" and "Amount allocated per project" are calculated based on the projects' initial plans for FY 2012.
- "Grant-in-Aid for Special Purposes" and "Special Grant-in-Aid for Encouragement of Scientists" are excluded.

(2) Newly approved and continued

As of October 2012

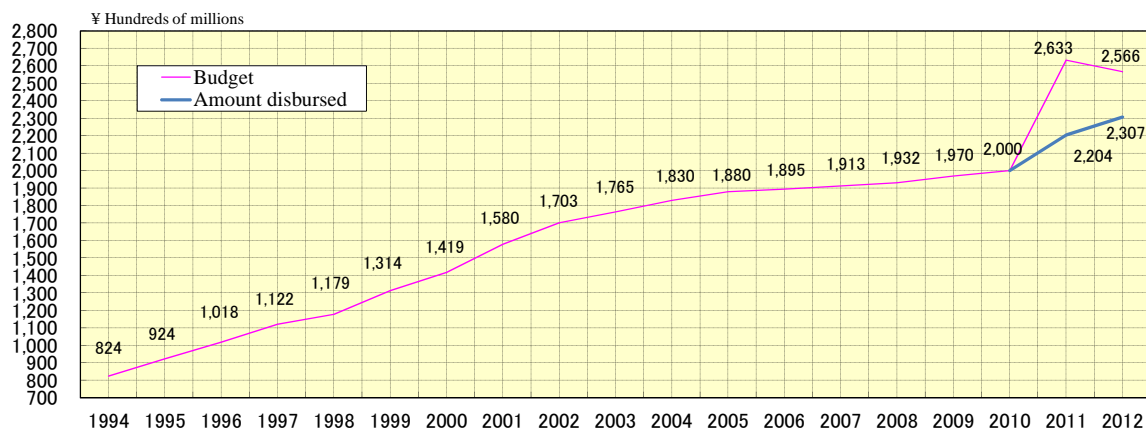
Research category	Number of proposed projects			Amount allocated	Amount allocated per project	
	Applications	Applications approved	Approval rate		Average	Maximum
Grants-in-aid for Scientific Research	# [133,078] 136,054	# [64,421] 69,113	% [48.4] 50.8	(1,000 yen) [158,761,717] 165,261,092 【 49,208,608 】	(1,000 yen) [2,464] 2,391	(1,000 yen) [213,000] 159,200
Specially Promoted Research	[170] 173	[79] 77	[46.5] 44.5	[6,244,100] 6,033,600 【 1,810,080 】	[79,039] 78,358	[213,000] 159,200
Scientific Research on Priority Areas	[599] 117	[501] 117	[83.6] —	[3,206,600] 882,500	[6,400] 7,543	[45,000] 42,000
Scientific Research on Innovative Areas (Research in a proposed research area)	[6,952] 6,415	[2,378] 2,925	[34.2] 45.6	[21,138,850] 25,356,350 【 7,606,905 】	[8,889] 8,669	[129,100] 147,800
Scientific Research on Innovative Areas(*1) (Research under a proposed research project)	[78] 1	[78] 1	[—] —	[540,900] 3,869 【 1,161 】	[6,935] 3,869	[7,900] 3,869
Scientific Research(S)	[850] 853	[425] 435	[50.0] 51.0	[11,625,400] 12,737,600 【 3,821,280 】	[27,354] 29,282	[87,300] 89,000
Scientific Research(A)	[3,562] 3,784	[1,940] 2,054	[54.5] 54.3	[18,059,800] 18,888,800 【 5,666,640 】	[9,309] 9,196	[32,900] 34,400
Scientific Research(B)(*2)	[15,983] 15,837	[8,421] 8,358	[52.7] 52.8	[33,172,735] 32,515,800 【 9,754,740 】	[3,939] 3,890	[14,300] 13,300
Scientific Research(C)(*3)	[48,621] 51,301	[26,062] 28,211	[53.6] 55.0	[29,056,997] 31,815,351 【 9,544,605 】	[1,115] 1,128	[4,200] 3,800
Challenging Exploratory Research(*3)	[14,576] 16,541	[5,651] 7,735	[38.8] 46.8	[7,665,964] 9,476,700 【 2,843,010 】	[1,357] 1,225	[3,400] 3,100
Young Scientists(S)(*1)	[108] 50	[107] 47	[—] 94.0	[1,352,100] 540,100 【 162,030 】	[12,636] 11,491	[22,800] 19,000
Young Scientists(A)(*2)	[2,617] 2,646	[1,165] 1,244	[44.5] 47.0	[6,626,303] 6,921,164 【 2,076,349 】	[5,688] 5,564	[21,700] 19,700
Young Scientists(B)(*3)	[31,183] 30,211	[15,274] 15,557	[49.0] 51.5	[17,922,189] 17,942,303 【 5,382,691 】	[1,173] 1,153	[3,400] 3,400
Research Activity Start-up	[4,041] 4,329	[1,640] 1,645	[40.6] 38.0	[1,799,779] 1,797,055 【 539,117 】	[1,097] 1,092	[1,500] 1,500
Encouragement of Scientists	[3,738] 3,796	[700] 707	[18.7] 18.6	[350,000] 349,900	[500] 495	[900] 800
Publication of Scientific Research Results	[1,084] 1,006	[560] 536	[51.7] 53.3	[1,280,990] 1,166,960	[2,287] 2,177	[26,900] 20,000
Grants-in-aid for JSPS Fellows	[6,651] 6,563	[6,651] 6,563	[—] —	[4,803,368] 5,152,302	[722] 785	[3,000] 3,000
Creative Scientific Research(*4)	[18] —	[18] —	[—] —	[1,208,300] — 【 — 】	[67,128] —	[89,500] —
Total	[140,831] 143,623	[71,650] 76,212	[50.9] 53.1	[166,054,375] 171,580,354 【 49,208,608 】	[2,318] 2,251	[213,000] 159,200

Notes:

- This chart combines the figures for newly selected and continuing projects.
- The figures in [] indicate the previous fiscal year.
- The figures in 【 】 indicate indirect costs (excluded from the total).
- (*1) No new projects are recruited in FY 2012.
- (*2) Among these projects, there are new project that are partially covered under the multi-year Fund; their columns "Amount allocated" and "Amount allocated per project" are calculated based on the projects' initial plans for FY 2012.
- (*3) Among these projects, there are new project covered under the multi-year Fund; their columns "Amount allocated" and "Amount allocated per project" are calculated based on the projects' initial plans for FY 2012.
- (*4) No new or continuing projects are recruited in FY 2012.
- "Scientific Research on Innovative Areas (Research in a proposed research area) 'Support Activity in 3 Areas of Bioscience'", "Grant-in-Aid for Special Purposes" and "Special Grant-in-Aid for Encouragement of Scientists" are excluded.

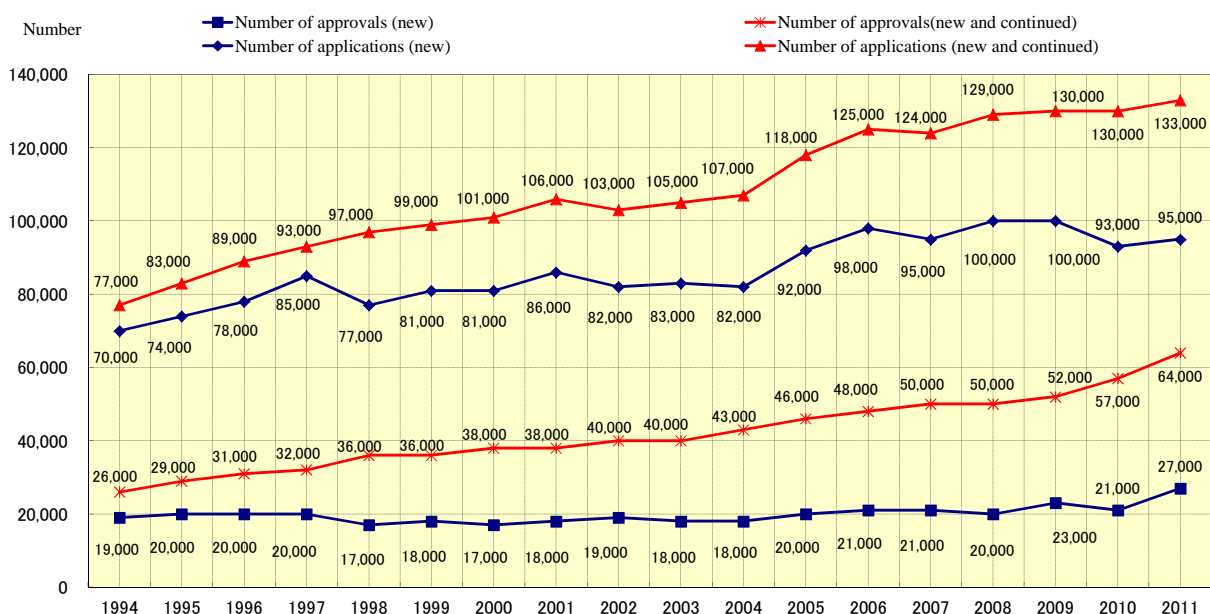
2. Changes in Budgets and Other Information

○ Changes in budgets and other information



FY	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Budget (¥ hundreds of millions)	824	924	1,018	1,122	1,179	1,314	1,419	1,580	1,703	1,765	1,830	1,880	1,895	1,913	1,932	1,970	2,000	2,633	2,566
Year-on-year increase (%)	12.0	12.1	10.2	10.2	5.1	11.5	8.0	11.3	7.8	3.6	3.7	2.7	0.8	0.9	1.0	2.0	1.5	31.7	-2.5
Amount disbursed (¥ hundreds of millions)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,204	2,307
Year-on-year increase (%)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7

○ State of applications and approvals



○ Approval rate

(Upper column: New projects, Lower column: New and continuing projects)

FY	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Approval rate (%)	27.0	27.6	26.1	24.6	22.2	21.8	21.6	21.1	22.7	21.4	22.5	21.6	21.5	22.2	20.3	22.5	22.1	28.1
Approval rate (%)	33.8	35.2	35.1	34.0	37.6	36.1	37.3	35.8	38.5	37.9	40.7	38.6	38.6	40.4	38.4	40.3	44.2	48.4

Inquiries

1. Inquiries about the invitation of applications should be directed to the following divisions through the research institution.

(1) About the invitation of applications:

Research Aid Division II, Research Program Department, Japan Society for the Promotion of Science

Phone: 03-3263-0980,1041,0976

(2) For inquiries concerning the use of the JSPS electronic application system for projects funded by grants-in-aid for scientific research:

Call center: 0120-556-739 (toll-free)

* Available from 9:30 to 17:30 every day except Saturdays, Sundays and holidays

The following phone numbers are also available: 03-3263-1762 and 03-3263-1913

System Management Team, Policy Planning, Information and Systems Division, General Affairs Division, Japan Society for the Promotion of Science

(3) For inquiries concerning the use of the Cross-ministerial Research and Development management system (e-Rad):

e-Rad help desk: 0120-066-877 (toll-free)

* Available from 9:00 to 18:00

* The following phone numbers are also available: 03-5638-5361

(4) For matters related to the “Self-Assessment Checklist on the Improvement of the System and Other Matters”, based on the “Guidelines on the Management and Audit of Public Research Funds at Research Institutions (Implementation Standards)”:

Office of Research Funding Administration, Promotion Policy Division, Research Promotion Bureau, the Ministry of Education, Culture, Sports, Science and Technology (MEXT)

Phone: 03-6734-4014

(5) For matters related to “the Life Science Database”:

National Bioscience Database Center, Japan Science and Technology Agency (JST)

Phone: 03-5214-8491

2. The application guidelines can be viewed on the JSPS website. Application forms can be downloaded from the following website.

JSPS’s website on Grants-in-Aid for Scientific Research

<http://www.jsps.go.jp/j-grantsinaid/index.html> [Japanese]

<http://www.jsps.go.jp/english/e-grants/index.html> [English]