

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

FY2009

Grant-in-Aid for Young Scientists (Start-up)

March 3, 2009

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

## **Introduction**

The “Grant-in-Aid for Young Scientists (Start-up)” was established in FY2006 in order to make it possible for suitably well-qualified young scientists who have recently obtained employment as a scientist to receive the support of a Grant-in-Aid for Scientific Research, in the most crucial period when they are supposed to devote themselves to research.

In the call for proposals for FY2009 the Ministry of Education, Culture, Sports, Science and Technology decided to organize a call for applications that is also open to individuals who are eligible to apply for a “Grant-in-Aid for Special Purposes (pluriannual application)”, for which a call and reception of proposals has been organized in the same period as for the current research category. Eligible to apply are (1) individuals who became eligible to apply after the application period of November last year; (2) individuals who could not apply in November last year, because they obtained maternity leave before and after childbirth or child-care leave in FY2008. This call for applications is based on the viewpoint that it is necessary to carry out research promotion swiftly and agilely.

Moreover, the change is being implemented based on the “Direction of the Policy that Needs to Be Followed for Grants-in-Aid for Scientific Research in the Immediate Future”, which has been compiled by the Sectional Meeting for Research Funds of the Academic Subcommittee Meeting of the Academic Deliberation Council for Science and Technology in July 2008.

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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 for FY2009 (Grant-in-Aid for Young Scientists (Start-up)) (Application Forms and Data Entry)**

#### **Forms to be Prepared by the Researcher**

##### **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) (Grant-in-Aid for Young Scientists (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 (Items to be entered in the attached file)

Form S-1-17: Proposal for grant-in-aid “Grant-in-Aid for Young Scientists (Start-up)” Preparation and data entry of application information (new)

Proposal for grant-in-aid “Grant-in-Aid for Young Scientists (Start-up)” (new) form

# I Details of the Call for Proposals

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

### **Grant-in-Aid for Young Scientists (Start-up)**

- A) Intended for:** The Grant-in-Aid for Young Scientists (Start-up) is intended for research projects that aim at ensuring opportunities for young scientists to develop independently and to contribute to their research activities. The research projects are conducted by one researcher who could not apply, because he or she just took up employment as a researcher in a research institution and, therefore, the time when he or she obtained his/her research project he or she was going to conduct for the start-up of his/her research activities, and applicant eligibility, fell after the application period of the previous year. The research projects in question have an original idea that is expected to bring forth a major development in the future.
- B) Total budget provided:** 1.5 million yen or less per year
- C) Research period:** Two years

## **2. Eligibility to Apply**

### **(1) Eligible to apply**

Three categories of individuals are eligible to receive this grant. The research institution needs to confirm that the applicant belongs to one of the below listed categories and the applicant also needs to be registered in the Researcher List for Grants-in-Aid for Scientific Research (hereinafter called “researcher list”).

- ① A person who on April 1, 2008, or later, has been employed for the first time in a research institution (cf. Note 2), based on an employment contract and with working hours that exceed 30 hours per week, as a person who can obtain eligibility to apply for a Grant-in-Aid for Scientific Research (cf. Note 1), and who became eligible to apply for a Grant-in-Aid for Scientific Research anew.
- ② A person who could not apply for a Grant-in-Aid for Scientific Research for which a call for proposals was organized in November 2008, because he or she became eligible to apply for a Grant-in-Aid for Scientific Research (cf. Note 1), on the day after October 27, 2008, or later (the day of the third deadline for registration on the researcher list).
- ③ A person who could not apply for a Grant-in-Aid for Scientific Research for which a call for proposals was organized in November 2008, because she obtained maternity leave before and after childbirth or child-care leave in FY2008.

※ People who are eligible to apply, who fall under the above-mentioned points ② or ③, and who have ever been registered on the researcher list before October 27, 2008, should submit a document mentioning the following items (in arbitrary form) not later than April 24, 2009 (Friday), 5 pm to the Scientific Research Aid Division No. 1 of the Department of Research Projects of the Japan Society for the Promotion of Science (JSPS).

1. Institute Number
2. Name of the Research Institution
3. Name of the position, name and seal of the head of the research institution
4. Researcher number of the researcher in question
5. Name of the researcher in question (Chinese characters (if applicable) and katakana)
6. The reason why the applicant was not able to apply for a Grant-in-Aid for Scientific Research for which a call for proposals has been organized in November 2008 (within 100 characters). (People to whom ③ applies, should specify the period of maternity leave before and after childbirth or child-care leave.)
7. Contact information of the chief clerk (division, section, etc., name and telephone number)

Note 1: Eligibility to Apply of Grants-in-Aid for Scientific Research (Applicants should meet all the requirements from 1) to 4) below.)

**Requirements for the researcher**

- 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. It also includes persons who are mainly involved in job duties other than research activities)
- 2) The researcher should actually be engaged in research activities at the research institution in question (excluding research assistant)

**Requirements for the research institution**

- 3) If a grant-in-aid is given, the research activity should be conducted as an activity of the research institution in question.
- 4) If a grant-in-aid is given, the research institution should carry out the management of the grant-in-aid.

Note 2: 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)

- 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

**Examples of people who are eligible to apply**

From the call for proposals of FY2009 on, people who are eligible to apply for this research category are people to whom 1), 2) or 3) of “A. Verification of the Eligibility to Apply ① People who are Eligible to Apply” on the previous page applies. Examples are as following.

People who fall under 1)

A person who was employed for the first time on April 1, 2008, or later, as a full-time researcher at a research institution. For example, a person who was newly employed as an assistant professor at a university, etc., could be such a case.

Moreover, if a person was employed in a research institution for more than 30 hours per week as a postdoctoral research fellow etc. before March 31, 2008, and in the meantime was not recognized as eligible to apply for a Grant-in-Aid for Scientific Research, he or she can apply for this research category.

Moreover, because this research category aims at carrying out support for the start-up of research activities to people who just took employment as a researcher at a university etc., people who before March 31, 2008, were working as a full-time researcher in a research institution do not fall under ①, even if they became eligible to apply (cf. Note 1) anew on April 1, 2008, or later.

People who fall under 1) are the same people who were targeted for “Grants-in-Aid for Young Scientists (Start-up)” until last fiscal year.

People who fall under 2)

For example, a person originally from a private-sector corporation or from abroad who was employed at a research institution, who newly obtained a researcher number, and who could not apply for the call for proposals of November last year could be such a case.

Moreover, even people who have ever been registered on a researcher list before October 27, 2008 can apply, if they meet the four requirements to become eligible to apply for a Grant-in-Aid for Scientific Research again on the next day after October 27, 2008 (the day of the third registration deadline on the researcher list), or later. For example, a person who was a research assistant at a research institution before, subsequently became a researcher at an overseas research institution, and in January 2009 was employed again as professor at a research institution could be such a case.

People who fall under 2) are the same people who were targeted for “Grant-in-Aid for Special Purposes (pluriannual application)” until last fiscal year.

### People who fall under 3)

These are people who could not apply for a Grant-in-Aid for Scientific Research for which a call for proposals was organized in November last year, because they obtained maternity leave before and after childbirth or child-care leave in FY2008. In this case, people can apply regardless of whether or not they obtained the leave in question during the period of the call for proposals for Grants-in-Aid for Scientific Research that was organized in November last year.

People who fall under 3) are the same people who were targeted for “Grant-in-Aid for Special Purposes (pluriannual application)” until last fiscal year.

### **(2) Applying researcher (Principal Investigator)**

A qualified person should apply for a Grant-in-Aid for Scientific Research as a Principal Investigator (see 4. Project Members (1), on page 5).

### **(3) Researchers who belong to more than one research institution**

If a qualified applicant belongs to more than one research institution, he or she may apply as a member of any of the institutions. In this case, it is necessary to consider the rules on duplicate applications (see page 7).

### **(4) Inclusion in a researcher list**

A Principal Investigator who wishes to apply needs to be registered in the researcher list by the prescribed deadline. (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 the registration (renewal) in the researcher list, the person in charge of the research institution to which the applicant belongs should conduct the necessary procedures, using the Cross-Ministerial Research and Development Management System (hereinafter called “e-Rad”; for details see <http://www.e-Rad.go.jp/>). Concerning the researcher list, the Scientific Research Aid Division of the Research Promotion Bureau of the Ministry of Education, Culture, Sports, Science and Technology (MEXT) will capture and prepare information on researchers who are registered as “eligible to apply for Grants-in-Aid for Scientific Research” from the researcher information that has been registered in e-Rad by the prescribed deadline (see “Period (Deadline) for registration to the e-Rad of information on researchers” in the “Researcher List Renewal Schedule” mentioned below). The applicant should pay particular attention to the points mentioned below when conducting the registration in the researcher list.

### **Researcher List Renewal Schedule**

Period (Deadline) for registration to the e-Rad of information on researchers	Scheduled day for renewal (import) of the researcher list	
February 20, 2009 (Fri.) to <b><u>April 6, 2009 (Mon.)</u></b> 7 <sup>th</sup> Registration deadline	7 <sup>th</sup>	April 14, 2009 (Tue.)
April 7, 2009 (Tue.) to <b><u>April 16, 2009 (Thurs.)</u></b> 8 <sup>th</sup> Registration deadline <b>Registration deadline for the current call for proposals</b>	8 <sup>th</sup>	April 24, 2009 (Fri.)

- Advance procedures are necessary to use e-Rad. The research institution should address an application for registration of the research institution to the person in charge of the operation of e-Rad and, after obtaining an electronic certificate, a login ID and password, use e-Rad.
- People who are scheduled to become eligible to apply, or who are scheduled to transfer in the period starting from the day of the registration deadline for the researcher information until the day of the submission deadline for the application documents, should conduct the prescribed procedures using e-Rad by April 16, 2009, the absolute deadline for registration (renewal) in the researcher list.
- Renewal of the researcher list is conducted twice (the 7<sup>th</sup> and 8<sup>th</sup> time). If registration in the researcher list (renewal) is necessary, the entry (input) of the application information by the Principal Investigator will take place later than the “scheduled day for renewal (import) of the researcher list” (see the

above-mentioned “Researcher List Renewal Schedule”). Therefore, the registration (renewal) of the researcher information should be completed by the 7<sup>th</sup> deadline (April 6, 2009), if at all possible.

The various procedures (including the procedures generally known within the research institution) should be conducted ranking this procedure as one of the important procedures that needs to be done by the research institution, in order to avoid that this procedure becomes an obstacle to the processing of the applications within the research institution.

### **3. Appropriate Use of Grants and Other Matters**

#### **(1) Appropriate use of grants**

Grants-in-Aid for Scientific Research are funded by the tax of citizens and other sources. Researchers receiving Grants-in-Aid for Scientific Research have a duty to comply with the related laws, regulations and spending rules by researchers (subsidiary conditions), and also to use such grants appropriately. To ensure recipients comply with this requirement, we check whether no inappropriate use of the grants-in-aid will be made, when an application is made.

To facilitate the appropriate use of Grants-in-Aid for Scientific Research, research institutions to which the researchers belong are responsible for the management of the grant-in-aid. The Administrative work that each research institution is required to carry out (rules for use for institutions) is determined. The applicant should fully understand prior to the application that these rules will apply after the application is approved.

Each research institution is requested to establish a system based on the “Guidelines for the Management and Auditing of Public Research Funds at Research Institutions (implementation standards)” (decided on February 15, 2007 by the Ministry of Education, Culture, Sports, Science and Technology) and also submit reports before submitting the application documents. If the institution fails to submit the reports, we will not accept applications from any researcher belonging to that institution. (If it already submitted the report on April 1, 2008 or later, it is not necessary to submit it again.) Also, even if the reports have been submitted, Grants-in-Aid for Scientific Research may not be paid if it is judged that problems concerning any inappropriateness or insufficiency, in compliance with the “essential items” given in the Notification of the Director of Science and Technology Policy Bureau, Ministry of Education, Culture, Sports, Science and Technology, dated May 31, 2007 are not solved.

#### **(2) Disqualification (exclusion of candidates)**

No grant-in-aid will be offered, for a fixed period of time, even if the researcher is eligible to apply, when the researcher has made fraudulent use of a Grant-in-Aid for Scientific Research, has fraudulently received a Grant-in-Aid for Scientific Research, or has committed fraudulent acts (forgery, manipulation, or plagiarism of data and survey results appearing in published research achievements; the same underneath), as explained from point 1) to 7).

Also researchers who fraudulently use or receive competitive funds other than Grants-in-Aid for Scientific Research (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 grants-in-aid for scientific research 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 reception 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.

- 1) When a researcher makes fraudulent use (※1) of a grant-in-aid, from 2 to 5 years starting from the next fiscal year following the fiscal year in which he or she has been ordered to refund the grant-in-aid.
- 2) Researchers who have conspired fraudulent use as in 1), for the same period as mentioned in 1).
- 3) When a researcher has not committed an intentional fault or gross negligence, but has used a grant-in-aid for scientific research for other purposes or used it in a way that violates the content of

the decision to provide the grant-in-aid for scientific research or the conditions that were attached to it, 2 years starting from the next fiscal year following the fiscal year in which he or she has been ordered to refund the grant-in-aid.

- 4) When a Principal Investigator or a Co-Investigator (*kenkyū-buntansha*) has conducted a project of which the decision of funding has been cancelled (※2) in collaboration with a Principal Investigator or a Co-Investigator (*kenkyū-buntansha*) who falls under point 1) or 3), the next year following the fiscal year in which the he or she has been ordered to refund the grant-in-aid. (This applies only to new research projects.)
  - 5) When a researcher was Principal Investigator or Co-Investigator (*kenkyū-buntansha*) of a project of which the decision of funding has been cancelled (※2), and to which a Co-Investigator (*renkei-kenkyūsha*) or a Research Collaborator who falls under point 1) has participated, the next year following the fiscal year in which he or she has been ordered to refund the grant-in-aid. (This applies only to new research projects.)
  - 6) When a researcher has fraudulently received grants-in-aid for scientific research (including people who have conspired in doing so), 5 years starting from the next fiscal year following the fiscal year in which he or she has been ordered to refund the grant-in-aid.
  - 7) When it has been established that a researcher has committed fraudulent acts (including cases where it has been established that the researcher bears responsibility for the content of a research paper/article which is connected to research achievements 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.
- ※1 “fraudulent use” is use of a grant-in-aid for scientific research for other purposes or use that violates the content of the decision to provide the grant-in-aid for scientific research or the conditions that were attached to it, caused by intentional fault or gross negligence.
- ※2 “a project of which the decision of funding has been cancelled” is a project of which the decision to provide a grant-in-aid for scientific research has been cancelled, according to the rules No. 1 and No.17 of the “Law on Optimizing Implementation of Budgets Relating to Subsidies”.

### **(3) 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 the grant-in-aid is not carried out or cancelled.

## **4. Project Members**

Principal Investigators are members of funded project, as stipulated in the Law on the Improvement of the Administration of the Budget for Grants-in-Aid (1955, Law no. 179), and in case they commit inappropriate use of the grants-in-aid or the like, their applicant eligibility will be suspended (i.e. they will be excluded from provision of grants-in-aid) (see pages 4-5).

### **(1) Principal Investigator**

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.

### **(2) Research Collaborator**

A Research Collaborator is somebody who cooperates in the implementation of a research project other than the Principal Investigator. He/she does not necessarily have to be eligible for application. (For example, a Fellow of the Japan Society for the Promotion of Science (JSPS Fellow), a researcher who belongs to an overseas research institution (university, college, etc.), a researcher from a company who is not qualified for application, etc.)

## **5. Budget**

### **(1) Eligible costs (direct costs)**

The eligible costs are the costs necessary for the implementation of the research project and the costs necessary for the summarizing of the research achievements. For direct costs like “travel expenses”, “personnel (technical assistant, labor cost, etc.)”, “miscellaneous”, (Supplementary Conditions 2-2).

※In case of research projects where in any of the fiscal years any of the costs like “equipment”, “travel expenses” or “personnel (technical assistant, labor cost, etc.)” 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:

- 1) 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)
- 2) Costs for purchasing equipment with which the research institution normally should be equipped
- 3) Costs for handling accidents or disasters that occurred during the implementation of funded project
- 4) 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, the research categories for which a call for proposals is organized, indirect costs are paid for “Grant-in-Aid for Young Scientists (Start-up)”. However, the Principal Investigator does not need to state those indirect costs in the application documents.

### **(3) Important points on the use of grants-in-aid**

Upon application a package plan throughout the research period should be prepared and submitted. 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, a grant-in-aid for scientific research 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.

## **6. Ineligible Research Projects**

The following research projects are not eligible:

- 1) Research projects which merely aim at purchasing ready-made research equipment.
- 2) Research projects which aim at producing large-size research equipment and similar things which should be funded by other budgets.
- 3) 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).
- 4) Funded research which is carried out as commercial business.
- 5) Research projects with a budget of less than 100,000 yen in any of the fiscal years of the research period.

## **7. Selection of the Desired Area for Screening**

When applying, please make sure to select one area you wish to have screened from the following 8 areas, and one research field which you think is the most closely related to your research project from Attached Table 2 “List of Categories, Areas, Disciplines and Research Fields for FY2009 Grants-in-Aid for Scientific Research” (see pages 15-17).

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

## 8. Handling of Duplicate Applications (Restrictions on Duplicate Applications)

- (1) Only one person can be a Principal Investigator of one research project (in the same screening panel / screening division)
- (2) Restrictions on duplicate applications with other research categories
  - 1) People who obtained an informal decision to grant the funding as a Principal Investigator of the research categories “Specially Promoted Research” (continued research project), “Scientific Research on Priority Areas”, “Scientific Research on Innovative Areas” (Research in a Proposed Research Area and Research in a Proposed Research Project), “Scientific Research (S)” (continued research project), “Scientific Research (A), (B), (C)” (including grants adopted through applications that are organized more than once a year), “Challenging Exploratory Research”, “Grant-in-Aid for Young Scientists (S)” (continued research project), “Grant-in-Aid for Young Scientists (A), (B)”, or “Grant-in-Aid for Creative Scientific Research” for FY2009, and who are about to receive funding, cannot apply for this research category. (This also includes people who are scheduled to become Principal Investigator due to a change of the Principal Investigator after the informal decision to grant the funding.)
  - 2) People who applied as a Principal Investigator of the research categories “Specially Promoted Research”, “Scientific Research on Innovative Areas”, “Scientific Research (S)” or “Grant-in-Aid for Young Scientists (S)” can apply for this research category. However, if the research project of the research categories “Specially Promoted Research”, “Scientific Research on Innovative Areas”, “Scientific Research (S)” or “Grant-in-Aid for Young Scientists (S)” under application is adopted, the grant for this research category will not be delivered.
  - 3) People who applied for a “Grant-in-Aid for Scientific Research (Encouragement of Scientists)” (\*) can apply for this research category, if they became eligible to apply for a “Grant-in-Aid for Young Scientists (Start-up)” in the time interval between April 2, 2009 and the submission period of the application documents. However, if the grant for “Encouragement of Scientists” is adopted, and in addition this research category is adopted, they should discontinue the use of the grant for “Encouragement of Scientists” that already has been provided immediately after the receipt of the notification of the informal decision to provide the grant for this research category, and conduct the procedures for the return of the grant.
- \* “Encouragement of Scientists” is research which an employee of an educational or research institution, a company staff member, or other people engaged in research conducts alone.
- 4) JSPS Fellows and Foreign JSPS Fellows cannot apply for all categories of "Grant-in-Aid for Scientific Research".

However, if a “JSPS Fellow” or a “Foreign JSPS Fellow” became eligible to apply for a “Grant-in-Aid for Young Scientists (Start-up)” (loss of eligibility for “JSPS Fellow” or “Foreign JSPS Fellow”) in the time interval between April 2, 2009 and the submission period of the application documents, he or she can apply for this research category. However, if this research category is adopted, he or she should discontinue the use of the “Grant-in-Aid for JSPS Fellows” that already has been provided immediately after the receipt of the notification of the informal decision to provide the grant, and conduct the procedures for the return of the grant.
- (3) Even if the application completed using the electronic application system has been accepted, it may be excluded from screening afterwards, according to the restrictions on duplicate applications.
- (4) Even when a researcher who is eligible to make applications in multiple research institutions applies at the same time from multiple research institutions separately, the restrictions on duplicated applications apply to that researcher in question (Principal Investigator or Co-Investigator (*kenkyū-bentansha*)).
- (5) Please avoid situations where the applicant cannot carry out his/her responsibility as a Principal Investigator or a Co-Investigator (*kenkyū-buntansha*), due to participation in multiple research

projects.

- (6) 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). This way of handling is based on 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). Moreover, if unreasonable reduplication or excessive concentration is found, the grant-in-aid may not be delivered.
- (7) On applications for Grants-in-Aid for Scientific Research for FY2010  
A Principal Investigator for a new research project of this research category can apply for other research categories during the next fiscal year. However, if research projects of other research categories under application are adopted, the grant for this research category will not be provided in the second year of the research period.

### **9. Schedule from Application to Receipt of Funding**

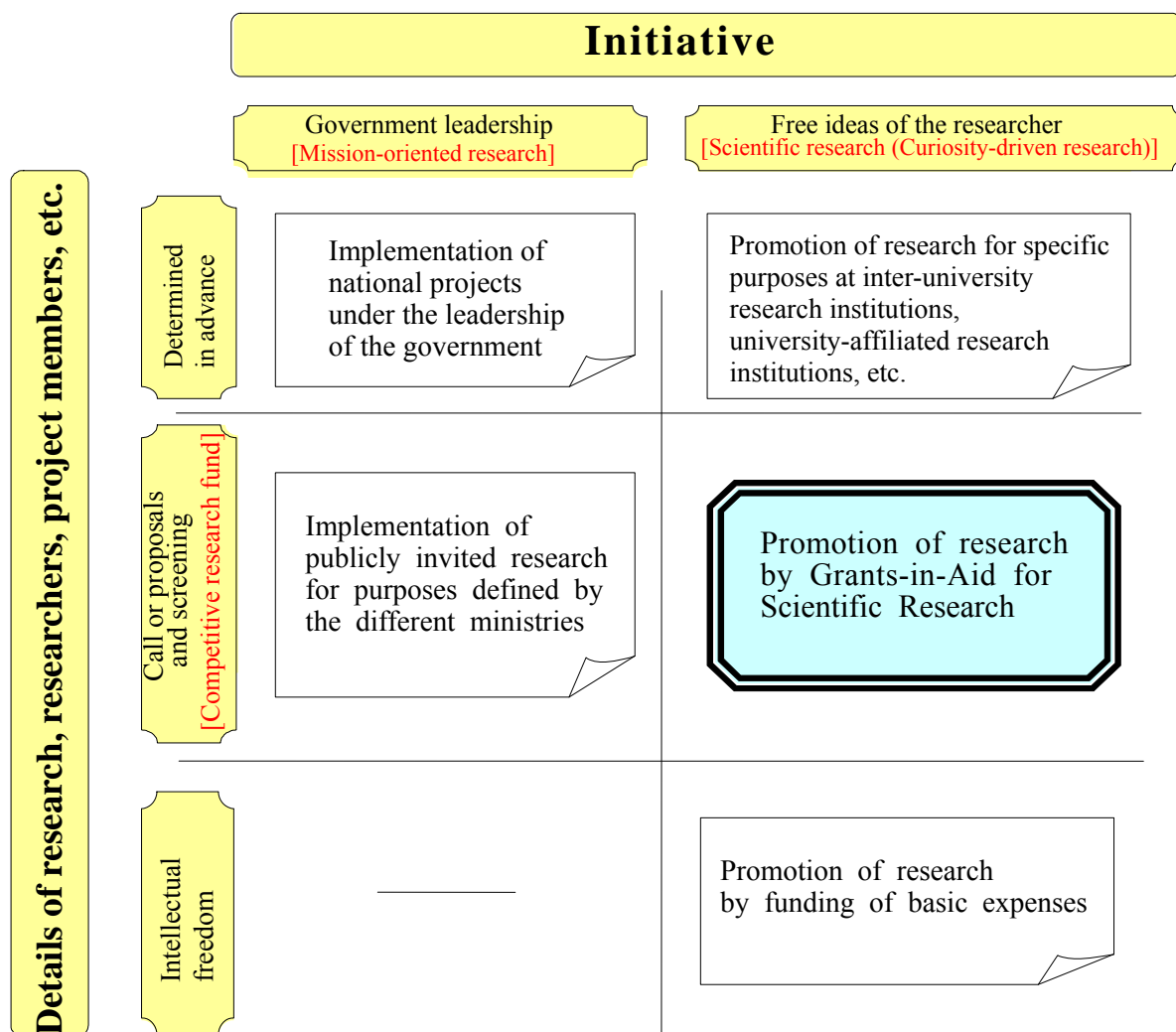
March 3, 2009:	Call for proposals (accepting applications)
April 16:	Deadline for registration of information on researchers
May 15:	Deadline for the submission of the application documents
June to August:	Screening
Late August:	Informal decision to grant the funding
Middle of September	Application for funding
Early October	Decision concerning the granting of the funding
Middle of October	Funding provided

## II. Outline of the Grants-in-Aid for Scientific Research

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

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).

Classification of the promotion of research and the positioning of the Grants-in-Aid for Scientific Research by the Government



※Grants-in-Aid for Scientific Research (193.2 billion yen) account for about 5% of the entire budget for publicly funded science and technology (approximately 3.6 trillion yen), and about 40% of the entire budget for competitive funding (approximately 481.3 billion yen).

### 2. Research Categories

For the following research categories, research institutions manage and carry out the different procedures on behalf of researchers.

Research categories, etc.	Purposes and description of the research category
<b>Grants-in-Aid for Scientific Research</b>	
Grant-in-Aid for Specially Promoted Research	Highly regarded research in the international arena that is likely to yield highly acclaimed research achievements (There is no limit to the period or budget although, as a guide, a period of three to five years and a budget of around 500 million yen per project may be awarded.)
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 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 (Start-up) Research done by one researcher who has just started employment at a research institution (The period is two years. The budget is 1.5 million yen or less per 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, and experimental work on research funding
Grant-in-Aid for Publication of Scientific Research Results	
Publication of Scientific Research Results	Funding of disclosure of research results with high academic value by academic societies, and of international dissemination
Scientific Periodicals	Funding of scientific journals that academic societies, either individually or within a cooperative framework regularly issue as a contribution to international scientific 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)
Grant-in-Aid for Creative Scientific Research	Among research supported by Grants-in-Aid for Scientific Research and others, focus is placed on the most outstanding research field. Research projects that are especially important in promoting the research field in question are selected to promote highly creative scientific research (recommendation required; for a period of five years)

### **3. 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. In FY1999 these tasks began to be 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. From here on, the transfer of these tasks will proceed gradually.

<b>Research category</b>	<b>Call for proposals and screening</b> (Main body in the preparation of the procedures for lodging applications and the location where the applications should be submitted)	<b>Funding</b> (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)
Grants-in-Aid for Scientific Research, Type 1		
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))	MEXT	MEXT
Grants-in-Aid for Scientific Research, Type 2		
Specially Promoted Research Grant-in-Aid for Young Scientists (A/B)	JSPS	MEXT
Grants-in-Aid for Scientific Research, Type 3		
Scientific Research, Challenging Exploratory Research, Grant-in-Aid for Young Scientists (S/start-up), Encouragement of Scientists, Grant-in-Aid for Publication of Scientific Research Results (Scientific Periodicals, Scientific Literature and Databases), Grant-in-Aid for JSPS Fellows, Grant-in-Aid for Creative Scientific Research	JSPS	JSPS

※ As of March 2009

### **4. Rules Relating to Grants-in-Aid for Scientific Research**

- (1) Grants-in-Aid for Scientific Research are governed by the Law on Optimizing Implementation of Budgets Relating to Subsidies (Law No. 179, 1955), the Japan Society for the Promotion of Science Law (Law No. 159, 2002), Grants-in-Aid for Scientific Research (Scientific Research, etc.) Management Procedures of the Japan Society for the Promotion of Science (Regulations No. 17, 2003), and others.
- (2) There are three types of rules for Grants-in-Aid for Scientific Research, 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) Spending rules: rules concerning the use of the Grants-in-Aid for Scientific Research
- (3) These three sets of rules on Grants-in-Aid for Scientific Research apply as follows, according to the type of scientific research (being Grants-in-Aid for Scientific Research Type 1, Grants-in-Aid for Scientific Research Type 2, and Grants-in-Aid for Scientific Research Type 3):

	<b>Application rules</b>	<b>Assessment rules</b>	<b>Spending rules</b>
Grants-in-Aid for Scientific Research, Type 1	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"	MEXT For researchers: Supplementary conditions  For research institutions: Administrative work and other tasks concerning the use of Grants-in-Aid for Scientific Research, to be performed by each research institution
Grants-in-Aid for Scientific Research, Type 2	JSPS Procedures on the call for proposals	JSPS Rules concerning the screening and assessment for Grants-in-Aid for Scientific Research (Scientific Research, etc.)	MEXT
Grants-in-Aid for Scientific Research, Type 3			JSPS For researchers: Supplementary conditions  For research institutions: Administrative work and other tasks concerning the use of Grants-in-Aid for Scientific Research, to be performed by each research institution

### III. Preparing the Application and Submitting the Application

#### **1. Application via the Electronic Application System**

When applying, applicants are required to prepare all the prescribed application documents via the JSPS electronic application system (hereinafter called “electronic application system”). Please perform the necessary procedures referring to “(2) Procedures that need to be done by researchers”, set down in “V. Application Procedures via the Electronic Application System” (pages 43-45).

#### **2. Preparing the Application Documents**

The research institution to which the Principal Investigator belongs should compile and submit all the necessary application documents.

The Principal Investigator should prepare a proposal for grant-in-aid, in accordance with the “Procedures for Preparing and Entering Application Information (to be entered in the website) (Grant-in-Aid for Young Scientists (Start-up))” and “Grant-in-Aid for Young Scientists (Start-up), Procedures for Preparing and Entering a Proposal for Grant-in-Aid”. Subsequently, the Principal Investigator should submit this proposal for grant-in-aid to the research institution to which he or she belongs.

#### **On the Proposal for grant-in-aid**

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

**First part:** The title of proposed project, the budget for which the application is made, the project members, basic data on the proposed project, etc.

Enter the application information in the electronic application system (<http://www-shinsei.jsps.go.jp/>).

**Second part:** Details on the research project including the purpose of the research, the research plan and research methods should be entered.

Download the form S-1-17 from 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”

2) A copy of the proposal for grant-in-aid in black-and-white 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. How to Apply**

##### **(1) Application schedule**

Principal Investigators should keep in mind the deadlines for all kinds of procedures that need to be done by research institutions, when carrying forward the procedures.

From early March 2009

Research institutions submit a “Application for Use of the Electronic Application System”. (JSPS issues an “ID and password”.) (It is necessary to install the Cross-ministerial Research and Development management system (e-Rad) Electronic Certificate in advance. This does not apply if the research institution already obtained them.)

From early March to early May

Research institutions issue an “ID and password” to the researchers. (This does not apply if the researcher already obtained an ID and a password.)

From early March

Researchers prepare their proposals for grant-in-aid (by entering the application information in the website and by preparing the project description file). (Entry in the website of the application information will become possible from late March. Moreover, the project description file can also be downloaded from the section Grants-in-Aid for Scientific Research of the JSPS website even before obtaining an ID and password.)

**Friday, May 15**

**Deadline for applications** (See (3) below)

**(2) Application documents and How to submit**

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 Young Scientists (Start-up)	To be entered in the electronic application system	S-1-17

**(3) Deadline for submission**

The Principal Investigator should submit (send) the application documents to the research institution he/she belongs to, by the deadline decided the research institution. (Even if they are submitted directly to JSPS, we will not accept them.)

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

List of Categories, Areas, Disciplines and Research Fields for FY2009 Grants-in-Aid for Scientific Research

## Category: Integrated Science and Innovative Science

Area	Discipline	Research Field	Item Number	Remark		
Comprehensive fields	Informatics	Fundamental theory of informatics	1001			
		Software	1002			
		Computer system/Network	1003	A B		
		Media informatics/Database	1004	A B		
		Intelligent informatics	1005			
		Perception information processing/Intelligent robotics	1006	A B		
		Sensitivity informatics/Soft computing	1007	A B		
		Library and information science/Humanistic social informatics	1008	A B		
		Cognitive science	1009			
		Statistical science	1010			
		Bioinformatics/Life informatics	1011	A B		
		Neuroscience	Neuroscience in general	1101		
			Nerve anatomy/Neuropathology	1102	A B	
	Neurochemistry/Neuropharmacology		1103			
	Neurophysiology and muscle physiology		1104	A B		
	Laboratory animal science	Laboratory animal science	1201			
	Biomedical engineering	Biomedical engineering/Biological material science	1301	A B		
		Medical systems	1302			
		Rehabilitation science/Welfare engineering	1303	A B		
	Health/Sports science	Physical education	1401	A B		
		Sports science	1402	A B		
		Applied health science	1403	A B		
	Human life science	General human life sciences	1501	A B		
		Eating habits, studies on eating habits	1502	A B		
	Science education/Educational technology	Science education	1601	※		
		Educational technology	1602	※		
	Sociology/History of science and technology	Sociology/History of science and technology	1701			
	Cultural property science	Cultural property science	1801			
	Geography	Geography	1901			
	New multidisciplinary fields	Environmental science	Environmental dynamic analysis	2001		
			Environmental impact assessment/Environmental policy	2002	A B	
			Risk sciences of radiation/Chemicals	2003	A B	
			Environmental technology/Environmental materials	2004	A B	
			Nano/Micro science	Nanostructural science	2101	A B
				Nanomaterials/Nanobioscience	2102	A B
		Microdevices/Nanodevices		2103	A B	
		Social/Safety system science	Social systems engineering/Safety system	2201	A B	
			Natural disaster science	2202	A B	
		Genome science	Basic genome science	2301		
			Applied genomics	2302		
			Genome informatics	2303		
		Living organism molecular science	Living organism molecular science	2401		
		Resource conservation science	Resource conservation science	2501		
		Area studies	Area studies	2601		
	Gender	Gender	2701			

## Category: Humanities and Social Sciences

Area	Discipline	Research Field	Item Number	Remark
Humanities	Philosophy	Philosophy/Ethics	2801	
		Chinese philosophy	2802	
		Indian philosophy/Buddhist studies	2803	
		Religious studies	2804	
		History of thought	2805	
		Aesthetics/Art history	2806	
	The arts	Study of the arts/History of the arts/Arts in general	2851	
	Literature	Japanese literature	2901	
		Literature in English	2902	
		European literature (English literature excluded)	2903	
		Literatures/Literary theories in other countries and areas	2904	
	Linguistics	Linguistics	3001	※
		Japanese linguistics	3002	
		English linguistics	3003	
		Japanese language education	3004	
		Foreign language education	3005	※
	History	Historical studies in general	3101	
		Japanese history	3102	
		Asian history	3103	
		History of Europe and America	3104	
		Archaeology	3105	
	Human geography	Human geography	3201	
	Cultural anthropology	Cultural anthropology/Folklore	3301	

That have the indication "A" or "B" in the remarks column is carried out in separate groups. Make sure to select A or B based on the Attached Table "List of Categories, Areas, Disciplines and Research Fields", when applying for these research fields.

## (Category: Humanities and Social Sciences)

Area	Discipline	Research Field	Item Number	Remark
Social sciences	Law	Fundamental law	3401	
		Public law	3402	
		International law	3403	
		Social law	3404	
		Criminal law	3405	
		Civil law	3406	
		New fields of law	3407	
	Politics	Politics	3501	
		International relations	3502	
	Economics	Economic theory	3601	
		Economic doctrine/ Economic thought	3602	
		Economic statistics	3603	
		Applied economics	3604	
		Economic policy	3605	
		Public finance/ Monetary economics	3606	
		Economic history	3607	
	Business administration	Business administration	3701	※
		Commerce	3702	
		Accounting	3703	
	Sociology	Sociology	3801	※
		Social welfare and social work studies	3802	
	Psychology	Social psychology	3901	
		Educational psychology	3902	
		Clinical psychology	3903	
		Experimental psychology	3904	
	Education	Education	4001	※
		Sociology of education	4002	
		Education on school subjects and activities	4003	※
		Special needs education	4004	

## Category: Science and Engineering

Mathematical and physical sciences	Mathematics	Algebra	4101	※	
		Geometry	4102		
		General mathematics (including Probability theory/ Statistical mathematics)	4103		
		Basic analysis	4104		
		Global analysis	4105		
		Astronomy	Astronomy	4201	
	Physics	Particle/Nuclear/Cosmic ray/ Astro physics	4301	※	
		Condensed matter physics I	4302		
		Condensed matter physics II	4303	※	
		Mathematical physics/ Fundamental condensed matter physics	4304		
		Atomic/Molecular/ Quantum electronics	4305		
		Biophysics/Chemical physics	4306		
	Earth and planetary science	Solid earth and planetary physics	4401		
		Meteorology/Physical oceanography/Hydrology	4402		
		Space and upper atmospheric physics	4403		
		Geology	4404		
		Stratigraphy/Paleontology	4405		
		Petrology/Mineralogy/ Science of ore deposit	4406		
		Geochemistry/Astrochemistry	4407		
	Plasma science	Plasma science	4501		
	Chemistry	Basic chemistry	Physical chemistry	4601	
			Organic chemistry	4602	
			Inorganic chemistry	4603	
Applied Chemistry		Analytical chemistry	4701		
		Synthetic chemistry	4702		
		Polymer chemistry	4703		
		Functional materials chemistry	4704		
		Environmental chemistry	4705		
		Chemistry related to living body	4706		
Materials chemistry		Functional materials/Devices	4801		
		Organic industrial materials	4802		
		Inorganic industrial materials	4803		
		Polymer/Textile materials	4804		

Area	Discipline	Research Field	Item Number	Remark
Engineering	Applied physics	Applied materials science/ Crystal engineering	4901	
		Thin film/Surface and interfacial physical properties	4902	
		Applied optics/Quantum optical engineering	4903	
		Applied physics, general	4904	
		Engineering fundamentals	4905	
	Mechanical engineering	Materials/Mechanics of materials	5001	
		Production engineering/ Processing studies	5002	
		Design engineering/ Machine functional elements/ Tribology	5003	
		Fluid engineering	5004	
		Thermal engineering	5005	
		Dynamics/Control	5006	
		Intelligent mechanics/ Mechanical systems	5007	
	Electrical and electronic engineering	Power engineering/ Power conversion/ Electric machinery	5101	
		Electronic materials/ Electric materials	5102	
		Electron device/ Electronic equipment	5103	
		Communication/Network engineering	5104	
		System engineering	5105	
		Measurement engineering	5106	
		Control engineering	5107	
	Civil engineering	Civil engineering materials/ Construction/ Construction management	5201	
		Structural engineering/ Earthquake engineering/ Maintenance management engineering	5202	
		Geotechnical engineering	5203	
		Hydraulic engineering	5204	
		Civil engineering project/ Traffic engineering	5205	
		Civil and environmental engineering	5206	
	Architecture and building engineering	Building structures/materials	5301	
		Architectural environment/equipment	5302	
		Town planning/Architectural planning	5303	
		Architectural history/design	5304	
	Material engineering	Physical properties of metals	5401	
Inorganic materials/ Physical properties		5402		
Composite materials/ Physical properties		5403		
Structural/Functional materials		5404		
Material processing/treatments Metal making engineering		5405 5406		
Process engineering	Properties in chemical engineering process/Transfer operation/Unit operation	5501		
	Reaction engineering/ Process system	5502		
	Catalyst/Resource chemical process	5503		
	Biofunction/Bioprocess	5504		
Integrated engineering	Aerospace engineering	5601		
	Naval and maritime engineering	5602		
	Earth system and resources engineering	5603		
	Recycling engineering	5604		
	Nuclear fusion studies	5605		
	Nuclear engineering	5606		
	Energy engineering	5607		

**Category: Biological Sciences**

Area	Discipline	Research Field	Item Number	Remark		
Biology	Basic biology	Genetics/Genome dynamics	5701			
		Ecology/Environment	5702			
		Plant molecular biology/ Plant physiology	5703			
		Morphology/Structure	5704			
		Animal physiology/ Animal behavior	5705			
		Biodiversity/Systematics	5706			
	Biological science	Structural biochemistry	5801			
		Functional biochemistry	5802			
		Biophysics	5803			
		Molecular biology	5804			
		Cell biology	5805			
		Developmental biology	5806			
	Evolutionary biology	5807				
		Anthropology	Physical anthropology	5901		
	Applied anthropology	5902				
	Agricultural sciences	Agriculture	Breeding science	6001		
			Crop science/Weed science	6002		
			Horticulture/Landscape architecture	6003		
Plant pathology			6004			
Applied entomology			6005			
Plant nutrition/Soil science			6101			
Agricultural chemistry		Applied microbiology	6102			
		Applied biochemistry	6103			
		Bioproduction chemistry/ Bioorganic chemistry	6104			
		Food science	6105			
		Forestry	Forest science	6201		
Wood science		6202				
Fisheries science		General fisheries	6301			
		Fisheries chemistry	6302			
Agro-economics		Agronomy	6401			
Agro-engineering		Irrigation, drainage and rural engineering/Rural planning	6501			
		Agricultural environmental engineering	6502			
		Agricultural information engineering	6503			
		Zootechnical science/ Grassland science	6601			
		Applied animal science	6602			
			Basic veterinary science/ Basic zootechnical science	6603		
6604						
Applied veterinary science			6605			
Clinical veterinary science		6605				
		Boundary agriculture	6701			
Applied molecular and cellular biology		6702				
Medicine, dentistry, and pharmacy		Pharmacy	Chemical pharmacy	6801		
			Physical pharmacy	6802		
			Biological pharmacy	6803	※	
			Drug development chemistry	6804		
	Environmental pharmacy		6805			
	Medical pharmacy		6806			
	Basic medicine	General anatomy (including histology/embryology)	6901	※		
		General physiology	6902			
		Environmental physiology (including physical medicine and nutritional physiology)	6903			
		General pharmacology	6904			
		General medical chemistry	6905			
		Pathological medical chemistry	6906			
		Human genetics	6907			
		Human pathology	6908	※		
		Experimental pathology	6909	※		
		Parasitology (including sanitary zoology)	6910			
		Bacteriology (including mycology)	6911			
		Virology	6912			
		Immunology	6913			
		Medicine, dentistry, and pharmacy	Boundary medicine	Medical sociology	7001	
				Applied pharmacology	7002	
Laboratory medicine	7003					
Society medicine	Hygiene		7101			
	Public health/Health science		7102			
	Legal medicine		7103			
Clinical internal medicine	General internal medicine (including psychosomatic medicine)		7201			
	Gastroenterology		7202	※		
	Circulatory organs internal medicine		7203	※		
	Respiratory organ internal medicine		7204	※		
	Kidney internal medicine		7205	※		
	Neurology		7206	※		
	Metabolomics		7207	※		
	Endocrinology		7208			
	Hematology		7209	※		
	Collagenous pathology/ Allergology		7210	※		
	Infectious disease medicine		7211			
	Pediatrics		7212	※		
	Embryonic/Neonatal medicine		7213			
	Dermatology		7214	※		
	Psychiatric science		7215	※		
Radiation science	7216		※			
Clinical surgery	General surgery		7301	※		
	Digestive surgery		7302	※		
	Thoracic surgery		7303	※		
	Cerebral neurosurgery		7304	※		
	Orthopaedic surgery		7305	※		
	Anesthesiology/Resuscitation studies		7306	※		
	Urology		7307	※		
	Obstetrics and gynecology		7308	※		
	Otorhinolaryngology	7309	※			
	Ophthalmology	7310	※			
	Pediatric surgery	7311				
	Plastic surgery	7312				
Emergency medicine	7313					
Dentistry	Morphological basic dentistry	7401				
	Functional basic dentistry	7402				
	Pathobiological dentistry/ Dental radiology	7403				
	Conservative dentistry	7404				
	Prosthetic dentistry	7405				
	Dental engineering/ Regenerative dentistry	7406				
	Surgical dentistry	7407	※			
	Orthodontic/Pediatric dentistry	7408				
	Periodontal dentistry	7409				
	Social dentistry	7410				
Nursing	Fundamental nursing	7501				
	Clinical nursing	7502				
	Lifelong developmental nursing	7503				
	Community health/ Gerontological nursing	7504	※			

# Attached Table 2 Appendix Table of Keywords

The research fields followed by A or B in the section “Integrated Science and Innovative Science” is carried out in two separate groups. Make sure to select A or B based on the keyword, when applying for the research fields in the list.

Category: Integrated Science and Innovative Science			(Informatics)		
Area: Comprehensive fields			Item Number	Research Field	Screening Sub-panel Number / Keyword
<b>Discipline: Informatics</b>					
1001	Fundamental theory of informatics	A Computational theory B Automata theory/Formal language theory C Theory of programs D Computational complexity theory E Algorithm theory F Cryptosystem G Information mathematics H Mathematical logic J Discrete structure K Computational learning theory L Quantum computation theory M Combinatorial optimization	1004	Media informatics/ Database	A Database, media, and information system A Database (DataBase Management System, DBMS) B Digital content C Multimedia D Information systems E Web services F Mobile systems G Information retrieval H Graphics J Visualization K Corpus L Structured document B User interface M Human interface N User model P Groupware Q Virtual reality R Wearable appliance S Universal design T Accessibility U Usability
1002	Software	A Algorithm engineering B Parallel processing/Distributed processing C Programming paradigm/Programming language theory D Implementation of programming systems E Operating system F Software engineering G Software agent H Specification/Verification of specification J Development environment K Development management L Embedded software	1005	Intelligent informatics	A Search, logic, and inference algorithms B Learning and knowledge acquisition C Knowledge bases and knowledge systems D Intelligent system architecture E Intelligent information processing F Natural language processing G Knowledge discovery and data mining H Intelligent agent J Ontology K Web intelligence
1003	Computer system/ Network	A Computer system A Computer architecture B Circuit and system C VLSI design technology D High performance computing E Reconfigurable system F Dependable computing G Embedded system B Information network H Network architecture J Network protocol K Network security technology L Mobile network technology M Transport technology N Overlay network P Traffic engineering Q Network management technology R Measurement of networks S Ubiquitous computing T Large scale network simulation U Interoperability V Network node operating system W Network information representation X Basic technology of providing services	1006	Perception information processing/ Intelligent robotics	A Perceptual information processing A Pattern recognition B Image processing C Speech processing D Computer vision E Information sensing F Sensor fusion G Sensing devices systems B Intelligent robotics H Intelligent robot J Behavior and environment recognition K Motion planning L Sensory behavior system M Autonomous system N Digital human model P Animation Q Real world information processing R Physical agents S Intelligent room

(Informatics)

Item Number	Research Field	Screening Sub-panel Number / Keyword		
1007	Sensitivity informatics/ Soft computing	A Sensitivity informatics		
		A Sensitivity design		
		B Sensitivity expression		
		C Sensitivity recognition		
		D Sensitivity cognition		
		E Sensitivity robotics		
		F Sensitivity measurement evaluation		
		G Ambiguity and sensitivity		
		H Sensitivity information processing		
		J Sensitivity database		
		K Sensitivity interface		
		L Sensitivity physiology		
		M Sensitivity material products		
		N Sensitivity industry		
		P Sensitivity environmental science		
		Q Sensitivity sociology		
		R Sensitivity philosophy		
		S Sensitivity pedagogy		
		T Sensitivity brain science		
		U Sensitivity management		
		B Soft computing		
		V Neural network		
		W Genetic algorithm		
		X Fuzzy theory		
		Y Chaos		
		Z Fractal		
		a Complex systems		
		b Probabilistic information processing		
		1008	Library and information science/ Humanistic social informatics	A Library and information science
				A Library science
				B Information services
				C Library information systems
D Digital archives				
E Information organization				
F Information retrieval				
G Information media				
H Bibliometrics and scientometrics				
J Construction and management of information resources				
B Humanistic social informatics				
K Literature information				
L History information				
M Information sociology				
N Law information				
P Information economics				
Q Management information				
R Educational information				
S Art information				
T Medical information				
U Science and technology information				
V Intellectual property information				
W Geographic information				
1009	Cognitive science			A Cognitive psychology
				B Evolution/Development
				C Learning/Thinking/Memorization
				D Reasoning/Problem solving
				E Sensation/Perception/Attention
				F Emotion/Feeling/Behavior
				G Comparative cognitive psychology
				H Cognitive philosophy
				J Brain cognitive science
		K Cognitive linguistics		
		L Comparative decision making theory		
		M Cognitive engineering		
		N Cognitive archaeology		
		P Cognitive model		
		Q Sociability		

(Informatics)

Item Number	Research Field	Screening Sub-panel Number / Keyword
1010	Statistical science	A Research survey and experimental design
		B Multivariate analysis
		C Time series analysis
		D Classification and pattern recognition
		E Statistical inference
		F Computational statistics and computer aided statistics
		G Statistical prediction and statistical control
		H Model selection
		J Optimization theory
		K Pharmaceutical statistical analysis genome biology
		L Behaviormetrics
		M Mathematical finance
		N Data mining
		P Spatial statistics and environmental statistics
		Q Statistics education
		R Statistical quality control
		S Statistical learning theory
		T Social research and analysis plan
		U Data science
		1011
A Bioinformatics		
B Genome information processing		
C Proteome information processing		
D Computer simulation		
E Biosystem information sciences		
B Vitae system informatics		
F Biological information		
G Neuroinformatics		
H Neural information processing		
J Artificial life system		
K Molecular computing		
L DNA computing		

Discipline: Neuroscience

Item Number	Research Field	Screening Sub-panel Number / Keyword
1101	Neuroscience in general	A Molecular and cellular neuroscience
		B Developmental and regenerative neuroscience
		C Neuroendocrinology
		D Clinical neuroscience
		E Neuroinformatics
		F Cognitive neuroscience
		G Behavioral neuroscience
		H Noninvasive neuroimaging
		J Computational neuroscience
		K Neuropsychology
		L Neuroscience of language
		1102
A Anatomy of neural tracts		
B Neural network		
C Neurohistology		
D Molecular neurobiology		
E Neural fine structure		
F Neurohistochemistry and neurocytochemistry		
G Neural development and its abnormality		
H Neural regeneration, remodeling and plasticity		
J Experimental morphology of the nervous system		
K Anatomical study of neuroimaging		
L Neurocytology		
B Neuropathology		
M Cellular neuropathology		
N Molecular neuropathology		
P Neurodegenerative diseases		
Q Developmental disorders		
R Senile dementia		
S Cerebrovascular disorders		
T Metabolic diseases		
U Toxic diseases		
V Brain tumors		
W Diseases of the spinal cord		
X Diseases of the muscle and peripheral nerve		

(Neuroscience)

Item Number	Research Field	Screening Sub-panel Number / Keyword		
1103	Neurochemistry/ Neuropharmacology	A Molecular and cellular neurobiology		
		B Development, differentiation, and aging		
		C Neurotransmitters and receptors		
		D Intracellular signal transduction		
		E Glial cells		
		F Pathophysiology and therapy of neuropsychiatric diseases		
		G Stem cell biology, regeneration, and repair		
		H Neural plasticity		
		J Neuropharmacology		
		K Drug development		
		L Genomic neuroscience		
		1104	Neurophysiology and muscle physiology	A Neurophysiology
				A Neuron, synapse, and neural circuit
B Glia				
C Vision, audition, equilibrium, gustation, and olfaction				
D Somatic and visceral sensation, and pain				
E Posture and motor control				
F Autonomic nervous regulation				
G System neuroscience and neuroinformatics				
H Cognition, language, memory, and emotion				
J Functional neuroimaging				
K Neurogenesis, development, regeneration, and repair				
L Neurological pathophysiology				
B Muscle physiology				
M Muscle contraction mechanism and energetics				
N Excitation-contraction coupling				
P Molecular neurophysiology and molecular motor				
Q Receptors and intracellular signal transduction				
R Neural control of muscle and skeletal, cardiac, and smooth muscles				
S Cardiac excitation and conduction abnormalities				
T Myocardial dysfunction and regeneration				
U Cardiac and smooth muscle remodeling				
V Smooth muscle physiology				
W Skeletal muscle physiology and pathophysiology				

(Biomedical engineering)

Item Number	Research Field	Screening Sub-panel Number / Keyword
1302	Medical systems	A Medical ultrasonics
		B Medical imaging system
		C Laboratory examination system
		D Minimally invasive treatment system
		E Remote diagnosis and treatment system
		F Organ preservation and treatment system
		G Medical information system
		H Computational surgery
		J Medical robotics
		1303
A Rehabilitation medicine		
B Disability science		
C Physical therapy		
D Occupational therapy science		
E Speech language and hearing therapy		
F Social welfare and health science		
G Artificial sensory organs		
H Gerontology		
J Clinical psychotherapy		
B Welfare engineering		
K Engineering for health and welfare		
L Technology for activities of daily living		
M Preventive care/Assistive technology		
N Normalization		
P Barrier-free system		
Q Universal design		
R Robotics for welfare and nursing care		
S Technology for substituting biological function		
T Technical aid		
U Human interface		

Discipline: Health/Sports science

Item Number	Research Field	Screening Sub-panel Number / Keyword
1401	Physical education	A Developmental mechanisms and the body works
		A Educational physiology
		B Physical systems science
		C Biological information analysis
		D Higher brain function science
		E Physical growth developmental science
		F Sensory and motor development studies
		B Mental and physical education and culture
		G Aesthetic education
		H Physical environment theory
		J Kinetic theory of leadership
		K Pedagogy of physical education
		L Fitness
		M Cultural theories of physical movement
		N Philosophy of the body
		P Life and death education
		Q Psychology of physical education
		R Affective science
		S Outdoor education
		T Dance education
		U Girls gymnastics
V Adult life stage elderly gymnastics		
W Martial arts theory		
X Motion adaptation life science		
1402	Sports science	A Sports science
		A Sports philosophy
		B Sports history
		C Sports psychology
		D Sports science management
		E Sports pedagogy
		F Training science
		G Sports biomechanics
		H Coaching
		J Sports talent
		K Sports for the disabled
		L Sports sociology
		M Sports environment
		N Cultural anthropology of sport
		B Medical and sport sciences
		P Sports physiology
		Q Sports biochemistry
		R Sports nutrition
		S Energy metabolism
		T Exercise and training
		U Sports disorders
V Doping		

Discipline: Laboratory animal science

Item Number	Research Field	Keyword
1201	Laboratory animal science	A Environmental facilities
		B Infectious diseases
		C Cryopreservation
		D Biosafety
		E Disease models
		F Breeding genetics
		G Developmental engineering
		H Laboratory animal welfare
		J Animal experiment technology
		K Bioresource research

Discipline: Biomedical engineering

Item Number	Research Field	Screening Sub-panel Number / Keyword
1301	Biomedical engineering/ Biological material science	A Biomedical engineering
		A Biomedical image
		B Physiome and biosystem
		C Bioinformation and instrumentation
		D Biomechanics
		E Artificial organs, regenerative medicine
		F Biological properties
		G Biomedical control and therapy
		H Biomedical optical engineering, thermal engineering
		J Medical micromachines, nanomachines
		K Nanobiology, nanomedicine
		L Bioimaging
		B Biomaterial science
		M Biomaterials
		N Biofunctional materials
		P Cell/Tissue engineering
		Q Biocompatible materials/Biosuitable materials
		R Intelligent materials
		S Bioconjugate materials
		T Materials for regenerative medicine and engineering
		U Drug delivery system
		V Nano-biomaterials

(Health/Sports science)

Item Number	Research Field	Screening Sub-panel Number / Keyword
1403	Applied health science	A Health education/Health promotion activities
		A Health education
		B Health promotion
		C Safety propulsion/Safety education
		D Pedagogy of health education
		E Stress management
		F Smoking/Drug abuse prevention education
		G School health
		H AIDS and sex education
		J Health management
		K Health information
		L Nutritional guidance
		M Physical and mental health
		N Leisure/Recreation
		B Applied medical health
		P Lifestyle diseases
		Q Exercise prescription and exercise therapy
		R Aging
		S Sports medicine
		T Sports immunology

Discipline: Science education/Educational technology

Item Number	Research Field	Screening Sub-panel Number / Keyword
1601	Science education	1 A Natural science education (mathematics, science, earth science physical chemical biological information)
		B Engineering education
		C Understanding nature
		D Social awareness of science
		E Science literacy
		F Experiment/Observation
		G Science education curriculum
		H Environmental education
		2 J Industrial technology education
		K Science higher education
1602	Educational technology	L History of science and technology education
		M Science and sociocultural
		N Science and technology policy
		P Teacher education/Science communicator training
		1 A Curriculum/Pedagogy development
		B Teaching-learning support systems
		C Distributed collaborative learning system
		D Human interface
		E Instructional materials information system
		F Utilization of media
1602	Educational technology	G Distance education
		H E-learning
		2 J Computer literacy
		K Media education
		L Learning environment
		M Teacher's education
		N Classroom instruction

Discipline: Human life science

Item Number	Research Field	Screening Sub-panel Number / Keyword
1501	General human life sciences	A Home economy
		A Family finance and home management
		B Family relations
		C Lifestyle
		D Consumer purchasing activities/Life information
		E Human life and culture
		F Life of the aged persons
		G Care for aged and disabled persons
		H Livelihood culture
		J Home economics education
		B Clothing and dwelling life
		K Clothing life
		L Clothing environment
		M Living and lifestyle
N Living environment		
P Life material		
Q Living design/Living goods		
1502	Eating habits, studies on eating habits	A Food and cooking
		A Cooking and processing
		B Food storage
		C Sensory evaluation
		D Food materials
		E Cooking and functional constituent
		F Food service
		G Food culture
		H Texture
		J Food item and mastication
		B Diet and health
		K Health and dietary life
		L Diet and nutrition
		M Dietary education
		N Dietary habits
		P Dietary behavior
		Q Dietary information
		R Special nutritious food
S Food and environment		
T Diet plan		
U Family and dietary life		
V Diet evaluation		
W Food management		

Discipline: Sociology/History of science and technology

Item Number	Research Field	Keyword
1701	Sociology/History of science and technology	A Sociology of science
		B Bioethics
		C History of science
		D History of technology
		E Medical history
		F Industrial archaeology
		G Philosophy of science/Theory of science
		H Science, technology and society

Discipline: Cultural property science

Item Number	Research Field	Keyword
1801	Cultural property science	A Dating methods
		B Material analysis
		C Production technique
		D Conservation science
		E Archaeological prospection
		F Plants and animal bodies/Human remains
		G Cultural property/Cultural heritage
		H Cultural resources
		J Cultural property policy

Discipline: Geography

Item Number	Research Field	Keyword
1901	Geography	A Geography in general
		B Land use/Landscape
		C Environmental system
		D Regional planning
		E Geography education
		F Regional geography
		G Geomorphology
		H Climatology
		J Hydrology
		K Cartography
		L Geographic information system
		M Remote sensing

**Area: New multidisciplinary fields**

**Discipline: Environmental science**

Item Number	Research Field	Screening Sub-panel Number / Keyword
2001	Environmental dynamic analysis	A Environmental metnal change
		B Biogeochemocal cycle
		C Environmental measurements
		D Environmental model
		E Environmental information
		F Global warming
		G Global change of water cycle
		H Environmental monitoring of the polar regions
		J Chemical oceanography
		K Biological oceanography
		2002
A Terrestrial, aquatic, and atmospheric impact assessment		
B Impact assessment on ecosystem		
C Impact assessment methods		
D Impact assessment on human health		
E Environmental impact assessment for the future generation		
F Human activities in polar regions		
B Environmental policy		
G Environmental philosophy		
H Environmental economics		
J Environmental management		
K Environmental activities		
L Environment and society		
M Consensus forming		
N Environmental safety and security		
2003	Risk sciences of radiation/ Chemicals	A Risk science of radiation
		A Environmental radiation
		B Protection
		C Basic process
		D Dosimetry assessment
		E Damage
		F Response
		G Repair
		H Sensitivity
		J Impact on life
		K Risk assessment
		B Risk science of chemicals
		L Toxicology
		M Toxic substance to human
N Estimation of trace chemicals pollution		
P Endocrine disrupting substances		
2004	Environmental technology/ Environmental materials	A Environmental technology
		A Enviornmental conservation technology
		B Environmental restoration technology
		C Resource conservation technology
		D Energy conservation technology
		E Recycling technology
		F Reduction technology of enviornmental impact
		B Environmental materials
		G Circular material design
		H Circulation and processing
		J Production system of circular materials
		K Human living environment
		L Green chemistry
		M Ecology and environment

**Discipline: Nano/Micro science**

Item Number	Research Field	Screening Sub-panel Number / Keyword
2101	Nanostructural science	A Chemical system
		A Nanostructural chemistry
		B Cluster/Fine particle
		C Nano/Microreaction field
		D Single molecule manipulation
		E Hierarchical structure/Superstructure
		F Surface/Interface nanostructure
		G Self-assembly
		B Physical system
		H Nanostructure properties
		J Mesoscopic physics
		K Nanoprobes
		L Quantum information
		M Nanotribology

**(Nano/Micro science)**

Item Number	Research Field	Screening Sub-panel Number / Keyword
2102	Nanomaterials/ Nanobioscience	A Nanomaterials
		A Creation of nanomaterials
		B Analysis and characterization of nanomaterials
		C Nanosurface/Nanointerface
		D Functional nanomaterials
		E Nanometrology
		F Formation/Control of nanostructure
		G Molecular devices
		H Nanoparticle/Nanotube
		J Single-molecule science
		B Nano bioscience
		K DNA devices
		L Nano synthesis
		M Molecular manipulation
N Biochip		
P Single-molecule biochemistry and physiology		
Q Single-molecule bioinformation science		
R Single-molecule science		
S Single-molecule imaging/Nanometrology		
2103	Microdevices/ Nanodevices	A Microdevices/Micromachines
		A Microelectromechanical systems/ Nanoelectromechanical systems (MEMS/NEMS)
		B Microfabrication
		C Micro-optical devices
		D Microchemical systems
		E Micro biosystems
		F Micromechanics
		G Microsensors
		B Nanodevices
		H Nanostructure fabrication
		J Self-assembly
		K Nanoparticle
		L Quantum dot
		M Carbon nanotube
N Control of nano-properties		
P Quantum effect		
Q Nanoelectronic devices		
R Nano-optical devices		
S Spin devices		
T Molecular devices		
U Single-quantum devices		
V Nanomachines		

**Discipline: Social/Safety system science**

Item Number	Research Field	Screening Sub-panel Number / Keyword
2201	Social systems engineering/ Safety system	A Social systems engineering
		A Social engineering
		B Social system
		C Policy science
		D Development planning
		E Management engineering
		F Management system
		G Operations research
		H Quality control
		J Industrial engineering
		K Modeling
		L Logistics
		M Marketing
		N Finance
		P Project management
		Q Environmental management
		B Safety system
		R Safety system
		S Safety engineering
		T Crisis management
		U Urban and social disaster prevention
V Fire/Accident		
W Safety information/Environmental preparation		
X Community resistance to disaster (evacuation, panic, communication, hazard map)		
Y Reliability engineering		

## (Social/Safety system science)

Item Number	Research Field	Screening Sub-panel Number / Keyword
2202	Natural disaster science	A Earthquake and volcano disaster mitigation
		A Seismic motion
		B Liquefaction
		C Active fault
		D Tsunami
		E Volcanic eruption
		F Volcanic ejecta/Debris flow
		G Seismic hazard
		H Volcanic hazard
		J Damage prediction/Analysis/Mitigation measures
		K Disaster mitigation and buildings
		B Natural disasters
		L Meteorological disasters
		M Hydrological disasters
		N Geo-hazard
		P Landslide
		Q Drought
		R Snow and ice disasters
		S Natural disaster prediction/Analysis/Measures
		T Lifeline disaster prevention
		U Local disaster preparedness plan and policy
		V Rehabilitation and reconstruction engineering
		W Disaster risk assessment

## Discipline: Genome science

Item Number	Research Field	Keyword
2301	Basic genome science	A Animal genome
		B Plant genome
		C Microbial genome
		D Organelle genome
		E Genome diversity
		F Genome structure
		G Genome expression
		H Evolution of genome/Reorganization of genome
		J Genomic function
		K Genomic systems
		L Genome network
		M Genomic regulation
		2302
B Industrial plant genome		
C Industrial microbial genome		
D Genome resources		
E Functional genomics		
F Genomic engineering		
G Chromosome engineering		
H Organelle engineering		
J Structural genomics		
K Proteome		
L Profiling		
2303	Genome informatics	M Posttranslational modification
		N Structural and functional proteomics
		A Genom database
		B Bioinformatics
		C Functional prediction
D Molecular design		
E Genom based drug design		

## Discipline: Living organism molecular science

Item Number	Research Field	Keyword
2401	Living organism molecular science	A Natural product organic chemistry
		B Secondary metabolite
		C Bioactive substance
		D Biopolymer
		E Chemical modification
		F Biological function related substance
		G Molecular mechanism of activity expression
		H Structure activity relationship
		J Biosynthesis
		K Design and synthesis of bioactive molecule
		L Combinatorial chemistry
		M Instrumental analysis
		N Chemical ecology
		P Proteomics
		Q Chemical biology

## Discipline: Resource conservation science

Item Number	Research Field	Keyword
2501	Resource conservation science	A Conservation biology
		B Biodiversity conservation
		C Conservation of biological strains
		D Conservation of genetic resources
		E Ecosystem conservation
		F Native species conservation
		G Seed conservation
		H Cell/Tissue preservation
		J Microbial culture collections

## Discipline: Area studies

Item Number	Research Field	Keyword
2601	Area studies	A Europe
		B Russia/Slavic area
		C North America
		D Central and South America
		E East Asia
		F Southeast Asia
		G South Asia
		H West Asia/Central Asia
		J Africa/African history
		K Oceania/Oceanian history
		L Global studies
		M Cross-regional comparative studies
		N Aid/Regional cooperation

## Discipline: Gender

Item Number	Research Field	Keyword
2701	Gender	A Gender differences/Gender roles
		B Sexuality
		C Social thought/Social movements/History
		D Law/Politics
		E Economy/Work
		F Social policy/Social welfare
		G Body/Expression/Media
		H Science and technology/Medicine/Life
		J Education/Human development
		K Development
		L Violence/Sex workers
		M Cross-cultural comparison
		N Women's studies/Men's studies/Queer studies

## Category: Humanities and Social Sciences

### Area: Humanities

#### Discipline: Philosophy

Item Number	Research Field	Keyword
2801	Philosophy/ Ethics	A Principles of philosophy/Specific theories of philosophy
		B Principles of ethics/Specific theories of ethics
		C Western philosophy
		D Western ethics
		E Japanese philosophy
		F Japanese ethics
		G Comparative philosophy
		H Philosophy of religion
2802	Chinese philosophy	A Chinese philosophy/Thought
		B Chinese Buddhism
		C Taoism
		D Confucianism
2803	Indian philosophy/ Buddhist studies	A Indian philosophy/Thought B Buddhist studies/History of Buddhism
2804	Religious studies	A Religious studies in general
		B History of religions
		C Sociology of religion
		D Philosophy of religion
		E Comparative study of religion
2805	History of thought	A History of Western thought
		B History of Eastern and Japanese thought
		C Comparative history of thought
		D History of religious thought
		E History of social thought
		F History of political thought
		G History of scientific thought
		H History of art theory
2806	Aesthetics/ Art history	A Aesthetics
		B Art history

#### Discipline: The arts

Item Number	Research Field	Keyword
2851	Study of the arts/History of the arts/Arts in general	A Musicology
		B Theory of arts
		C Various studies on arts
		D Culture and representation
		E Popular arts
		F Library science/Museum studies
		G Arts and cultural policy

#### Discipline: Literature

Item Number	Research Field	Keyword
2901	Japanese literature	A Japanese literature in general
		B Ancient literature (Nara and Heian periods)
		C Medieval literature (Kamakura and Muromachi periods)
		D Premodern literature (Edo period)
		E Modern and contemporary literature (after Meiji Restoration)
		F Kanbungaku (Chinese literature in Japan)
		G Bibliography/Philology
		H Literary criticism/Literary theory
2902	Literature in English	A English literature
		B American literature
		C Other literatures in English
		D Bibliography/Philology
		E Literary criticism/Literary theory
		F Comparative literature
2903	European literature (English literature excluded)	A French literature
		B German literature
		C Russian and East European literature
		D Other European literatures
		E Western classics
		F Bibliography/Philology
		G Literary criticism/Literary theory
		H Comparative literature
2904	Literatures/ Literary theories in other countries and areas	A Chinese literature
		B African literature
		C Southeast Asian literature
		D Other literatures
		E Bibliography/Philology
		F Literary criticism/Literary theory
		G Comparative literature

#### Discipline: Linguistics

Item Number	Research Field	Screening Sub-panel Number / Keyword
3001	Linguistics	A Phonetics
		B Phonology
		C Morphology
		D Syntax
		1 E Semantics
		F Pragmatics
		G Discourse analysis
		H Scripts and orthography
		J Lexicography
		K Sociolinguistics
		L Psycholinguistics
		M Biolinguistics
		N Historical linguistics
		2 P French linguistics
		Q German linguistics
		R Chinese linguistics
S Other languages		
T Endangered and minority languages		
3002	Japanese linguistics	A Phonetics/Phonology
		B Grammar
		C Morphology, Semantics
		D Writing systems
		E Stylistics
		F Dialect
		G Language in daily life
H History of the Japanese language		
J History of Japanese linguistics		
3003	English linguistics	A Phonetics/Phonology
		B Grammar
		C Morphology, Semantics
		D Stylistics
		E History of the English language
		F History of English linguistics
		G Diversity of the English language
3004	Japanese language education	A Systems of Japanese language education/ Language policy
		B Theories on qualified teachers/ Classroom research
		C Teaching methods/Curriculum planning
		D Theory of second language acquisition
		E Educational technology/Teaching materials/Educational media in general
		F Mother tongue retention/Bilingual education
		G Cross-cultural understanding and communication
		H Japanese affairs
		J History of Japanese language education
		K Educational testing and evaluation
		3005
B Theory of foreign language education/History of foreign language education		
C Teaching methods/Curriculum planning		
D Theory of second language acquisition		
1 E Educational technology/Teaching materials/Educational media in general		
F e-Learning/Computer-assisted language learning		
G Cross-cultural communication		
H Educational testing and evaluation		
J Training of foreign language teachers		
2 K English language education in general		
L Early English education		

#### Discipline: History

Item Number	Research Field	Keyword
3101	Historical studies in general	A World history
		B History of cultural exchange
		C Comparative history
		D Comparative study of civilizations
		E Study of historical materials
		F Globalization
3102	Japanese history	A Ancient history (Nara and Heian periods)
		B Medieval history (Kamakura and Muromachi periods)
		C Early modern history (Edo period)
		D Modern and contemporary history (after Meiji Restoration)
		E Local history
		F Cultural history
		G History of cultural and diplomatic exchange
		H Japanese history in general
		J Research in historical materials

## (History)

Item Number	Research Field	Keyword
3103	Asian history	A Chinese history: Ancient, medieval, and early modern period
		B Modern and contemporary Chinese history
		C East Asian history
		D Southeast Asian history
		E South Asian history
		F West Asian/Islamic history
		G Central Eurasian history
		H Comparative history/History of cultural and diplomatic exchange
3104	History of Europe and America	A Ancient European history
		B Medieval European history
		C Modern and contemporary West European history
		D Modern and contemporary East European history
		E Modern and contemporary South European history
		F Modern and contemporary North European history
		G North and South American history
		H Research in historical materials
		J Comparative history/History of cultural and diplomatic exchange
		3105
B Prehistoric studies		
C Historical archaeology		
D Japanese archaeology		
E Asian archaeology		
F Study of ancient civilizations		
G Study of material culture		
H Experimental archaeology		
J Research in buried cultural assets		
K Archaeological informatics		

## Discipline: Human geography

Item Number	Research Field	Keyword
3201	Human geography	A History of geography/Methodology
		B Economic geography/Transportation geography
		C Political geography/Social geography
		D Cultural geography
		E Urban geography
		F Rural geography
		G Historical geography
		H Regional environment/Natural hazards
		J Geography education
		K Regional planning/Regional policy
		L Regional geography
		M Geographic information system
		N History of cartography

## Discipline: Cultural anthropology

Item Number	Research Field	Keyword
3301	Cultural anthropology/ Folklore	A Cultural anthropology
		B Folklore
		C Ethnography
		D Social anthropology
		E Comparative folklore
		F Material culture
		G Prehistoric period/Historic period
		H Arts/Performing arts
		J Religion/Rituals
		K Development/Aid
		L Gender
		M Health care
		N Population/Emigration
		P Minority
		Q Ecology/Natural environment
		R Media

## Area: Social sciences

## Discipline: Law

Item Number	Research Field	Keyword		
3401	Fundamental law	A Legal philosophy/Legal theory		
		B Roman law		
		C Legal history		
		D Sociology of law		
		E Comparative law		
		F Foreign law		
		G Law and policy		
		H Law and economics		
3402	Public law	A Constitutional law		
		B Administrative law		
		C Tax law		
		D Constitutional theory		
		E Legislative studies		
		F Constitutional litigation		
		G Comparative constitutional law		
		H Constitutional history		
		J Administrative organization law		
		K Administrative procedure		
		L Administrative remedies		
		M International tax law		
		N Judicial law		
		3403	International law	A Public international law
B Private international law				
C International human rights law				
D Law of international organizations				
E International economic law				
F Nationality law				
G International civil procedure				
H International trade law				
3404	Social law			A Labor law
				B Economic law
		C Social security law		
		D Education law		
3405	Criminal law	A Criminal law		
		B Criminal procedure		
		C Criminology		
		D Criminal justice policy		
		E Juvenile law		
3406	Civil law	A Civil law		
		B Commercial law		
		C Civil procedure		
		D Legal person		
		E Business corporate law		
		F Financial law		
		G Securities law		
		H Insurance law		
		J International trade law		
		K Insolvency law		
		L Alternative dispute resolution		
		M Civil execution law		
		3407	New fields of law	A Environmental law
B Medical law				
C Information law				
D Intellectual property law				
E EU law				
F Law and gender				
G Legal education/Legal theory				

Discipline: Politics

Item Number	Research Field	Keyword
3501	Politics	A Political theory
		B History of political thought
		C Political history
		D Japanese politics
		E Political process
		F Electoral studies
		G Public administration
		H Comparative politics
		J Public policy
		3502
B Diplomatic history/International history		
C Foreign policy		
D International security		
E International political economy		
F International cooperation (including theories of international regime and international integration)		
G Transnational issues		
H Global issues		

Discipline: Economics

Item Number	Research Field	Keyword
3601	Economic theory	A Microeconomics
		B Game theory
		C Macroeconomics
		D Economic theory
		E Political economy
3602	Economic doctrine/ Economic thought	A Economic doctrine
		B History of economics
		C Economic thought
		D History of economic thought
		E Social thought
		F History of social thought
3603	Economic statistics	A Statistical system
		B Statistical research
		C History of statistics
		D History of statistical theory
		E Population statistics
		F Income/Wealth distribution
		G National accounts
		H Econometrics
		3604
B Labor economics		
C Theory of industry		
D Industrial organization		
E Urban economics		
F Environmental economics		
G Health economics		
H Regional economics		
3605	Economic policy	A Economic policy
		B Economic affairs
		C Japanese economy
		D Social security
		E Economic system
		F Economic development
		G Policy simulation
3606	Public finance/ Monetary economics	A Public finance
		B Public economics
		C Monetary economics
		D Finance
		E International monetary theory
3607	Economic history	A Economic history
		B Business history
		C Industrial history

Discipline: Business administration

Item Number	Research Field	Screening Sub-panel Number / Keyword
3701	Business administration	1 A Corporate management
		B Administrative organization
		C Managerial finance
		D Management information
		E Business administration
		F Corporate strategy
		G International management
		2 H Human resource management
		J Management of technology
		K Corporate social responsibility
		L Business ventures
		3702
B Consumer behavior		
C Distribution		
D Commerce		
E Insurance		
3703	Accounting	A Financial accounting
		B Managerial accounting
		C Auditing
		D Bookkeeping
		E International accounting
		F Tax accounting
		G Governmental accounting
		H Environmental accounting

Discipline: Sociology

Item Number	Research Field	Screening Sub-panel Number / Keyword
3801	Sociology	1 A Social philosophy/Social thought
		B History of sociology
		C General theory
		D Sociological methodology
		E Social research
		F Mathematical sociology
		G Social interaction/Social relations
		H Social group/Social organization
		J Institutions/Structure/Social change
		K Knowledge/Science/Technology
		L Politics/Power/State
		M Body/Ego/Identity
		N Family/Kinship/Population
		P Community/Village/City
		Q Industry/Labor/Leisure
		R Class/Stratification/Social mobility
		S Culture/Religion/Social consciousness
		T Communication/Information/Media
		2 U Gender/Generation
		V Education/School
		W Medical care/Welfare
X Social problems/Social movements		
Y Discrimination/Social exclusion		
Z Environment/Pollution		
a International community/Ethnicity		
3802	Social welfare and social work studies	A Principles of social welfare/Social welfare theory
		B Social welfare ideology/Social welfare history
		C Social security/Social welfare policy
		D Social work
		E Poverty/Social exclusion/Discrimination
		F Child welfare/Family welfare/Women's welfare
		G Social welfare for disabled persons
		H Social welfare for aged persons
		J Community welfare/Community social work
		K Social work in health care/Care work
		L School social work/Forensic social work
		M Welfare management/Advocacy/Evaluation
		N International welfare/Welfare NGOs
		P Volunteer/Nonprofit social welfare agencies
		Q Social welfare education/Field instruction

Discipline: Psychology

Item Number	Research Field	Keyword
3901	Social psychology	A Self-process
		B Social cognition/Emotion
		C Attitude/Belief
		D Social interaction/Interpersonal relations
		E Interpersonal communication
		F Group/Leadership
		G Collective phenomena
		H Industry/Organization
		J Culture
		K Social issues
		L Environmental issues
		M Media/Electronic network
		N Personnel
		P Work
		Q Consumer affairs
		3902
B Parent-child relationship		
C Developmental disabilities		
D Personality		
E Learning process		
F Teaching method		
G Classroom group/Management		
H Educational evaluation		
J Educational counseling		
K Counseling		
L Student counseling		
3903	Clinical psychology	
		B Crime/Delinquency
		C Psychological assessment
		D Psychotherapy
		E Psychological intervention
		F Psychological tests
		G Self-control
		H Psychological interviewing process
		J Case study
		K Self-help group
		L Therapist's theory
		M Community support
		N Health development
		P Rehabilitation psychology
Q Health psychology		
3904	Experimental psychology	A Physiology
		B Sensation/Perception
		C Attention
		D Learning/Behavior analysis
		E Memory
		F Thinking
		G Language
		H Motivation
		J Emotion
		K Behavior
		L Data analysis method
		M Consciousness
		N Principle/History

Discipline: Educaion

Item Number	Research Field	Screening Sub-panel Number / Keyword	
4001	Educaion	A Philosophy of education	
		B Educational thought	
		C History of education	
		D Curriculum theory	
		E Instructional theory	
		F Academic achievement theory	
		G Educational methods	
		H Educational evaluation	
		1	J Administration and finance of education
			K School management
			L School education
			M Early childhood education/Child-care
			N Lifelong learning
			P Adult and community education
			Q Education at home
			R Education policy
2	A Sociology of education		
	B Economics of education		
	C Anthropology of education		
	D Education policy		
	E Comparative education		
	F Human resource development/Development education		
	G School system/School culture		
	H Teacher/Student culture		
	J Youth problems		
	K Academic achievement problem		
	L Multicultural education		
	M Gender and education		
	N Education survey method		
	P Educational information system		
4002	Sociology of education	A Education of individual subjects (Japanese, mathematics, science, social studies, geography/History, civics, life environmental studies, music, art, home economics, technology, English, information)	
		B Education of vocational/Professional subject (industry, bussiness, agriculture, fishery, nursing, welfare)	
		C Curriculum composition/development	
		D Materials development	
		E Education excluding subject (global learning, moral, special activities)	
		F Guidance	
		G Career education	
		1	A Education for children with disabilities
			B Special needs education
		2	C Nursing for infants with disabilities
D Special needs nursing			
E Inclusion			
F Schools for special needs education			
G Classes for special needs education			
H Resource room education			
J Special educational needs			
K Learning difficulty			
L Intellectual disabilities			
M Developmental disabilities			
N Physical disorders			
P Mental disorder			
Q Disease/Illness			
R Behavioral disabilities			
S Severe multiple disabilities			
T Parenting difficulties/Abuse			
U School maladjustment			
V Educational counseling			
4003	Education on school subjects and activities	A Education of individual subjects (Japanese, mathematics, science, social studies, geography/History, civics, life environmental studies, music, art, home economics, technology, English, information)	
		B Education of vocational/Professional subject (industry, bussiness, agriculture, fishery, nursing, welfare)	
		C Curriculum composition/development	
		D Materials development	
4004	Special needs education	E Education excluding subject (global learning, moral, special activities)	
		F Guidance	
		G Career education	
		A Education for children with disabilities	
		B Special needs education	
		C Nursing for infants with disabilities	
		D Special needs nursing	
		E Inclusion	
		F Schools for special needs education	
		G Classes for special needs education	
H Resource room education			
J Special educational needs			
K Learning difficulty			
L Intellectual disabilities			
M Developmental disabilities			
N Physical disorders			
P Mental disorder			
Q Disease/Illness			
R Behavioral disabilities			
S Severe multiple disabilities			
T Parenting difficulties/Abuse			
U School maladjustment			
V Educational counseling			

## Category: Science and Engineering

### Area: Mathematical and physical sciences

#### Discipline: Mathematics

Item Number	Research Field	Screening Sub-panel Number / Keyword
4101	Algebra	A Number theory
		B Group theory
		C Arithmetic geometry
		1 D Representation theory of groups
		E Lie algebra theory
		F Algebraic combinatorics
		G Algebraic analysis
		H Algebraic geometry
		2 J Ring theory
K General algebra		
4102	Geometry	A Differential geometry
		B Complex manifold
		C Topology
		D Complex analytic geometry
		E Differential topology
4103	General mathematics (including Probability theory/ Statistical mathematics)	A Foundation of mathematics
		B Probability theory
		C Mathematical statistics
		D Applied mathematics
		E Combinatorics
		F Mathematics in information science
		G Discrete mathematics
		H Computational mathematics
		J Mathematical model
		K Self-assembly
		4104
B Real analysis		
C Functional equation		
D Functional analysis		
E Stochastic analysis		
F Algebraic analysis		
4105	Global analysis	A Global theory of functional equation
		B Calculus of variations
		C Nonlinear phenomena
		D Analysis on manifold
		E Dynamical system
		F Operator algebra
		G Integrable system

#### Discipline: Astronomy

Item Number	Research Field	Keyword
4201	Astronomy	A Optical/Infrared astronomy
		B Radio astronomy
		C Solar physics
		D Astrometry
		E Theoretical astronomy
		F X-ray/ $\gamma$ -ray astronomy

#### Discipline: Physics

Item Number	Research Field	Screening Sub-panel Number / Keyword
4301	Particle/ Nuclear/ Cosmic ray/ Astro physics	A Particle physics (theory)
		B Nuclear physics (theory)
		1 C Cosmic ray (theory)
		D Astrophysics (theory)
		E Relativity/Gravitation (theory)
		F Particle physics (experiment)
		G Nuclear physics (experiment)
		H Cosmic ray (experiment)
		2 J Astrophysics (experiment)
		K Relativity/Gravitation (experiment)
		L Accelerator technology
		M Particle detectors
		4302
B Mesoscopic system/Localization		
C Optical properties		
D Surface/Interface		
E Crystal growth		
F Dielectrics		
G Lattice defects		
H X-ray/Particle beam		
J Phonon properties		

#### (Physics)

Item Number	Research Field	Screening Sub-panel Number / Keyword
4303	Condensed matter physics II	1 A Magnetism
		B Magnetic resonance
		C Strongly-correlated system
		D High temperature superconductivity
		E Metal
		2 F Ultralow temperature/Condensed quantum system
		G Superconductivity/Density wave system
		H Molecular solid/Organic conductor
4304	Mathematical physics/ Fundamental condensed matter physics	A Statistical physics
		B Fundamental condensed matter theory
		C Mathematical physics
		D Integrable system
		E Non-equilibrium/Nonlinear physics
		F Applied mathematics
		G Dynamics
H Fluid physics		
J Disordered system		
K Computational physics		
4305	Atomic/ Molecular/ Quantum electronics	A Atom/Molecule
		B Quantum electronics
		C Quantum information
		D Radiation
		E Beam physics
4306	Biophysics/ Chemical physics	A Polymer/Liquid crystal
		B Chemical physics
		C Biophysics
		D Soft matter physics

#### Discipline: Earth and planetary science

Item Number	Research Field	Keyword
4401	Solid earth and planetary physics	A Earthquake phenomena
		B Volcanic phenomena
		C Crustal movement/Sea floor crustal
		D Geomagnetism
		E Gravity
		F Observation methods
		G Tectonics
		H Internal structure
		J Internal variability/physical properties
		K Solid planets/Satellite/Asteroid
		L Planet formation and evolution
		M Exploration of solid planets
		N Earthquake disasters and prediction
		4402
B Physical oceanography		
C Land-area water cycle/Material circulation		
D Water balance		
E Global environmental system		
F Geophysical fluid dynamics		
G Climatology		
H Planetary atmospheres		
J Air-sea interaction		
4403	Space and upper atmospheric physics	
		B Solar wind/Interplanetary space
		C Terrestrial and planetary magnetospheres
		D Terrestrial and planetary ionospheres
		E Terrestrial and planetary upper atmospheres
		F Space plasma
		G Geomagnetic variation
		H Plasma waves
4404	Geology	A Stratum
		B The earth's crust
		C Environmental geology
		D Tectonics
		E Geologic era
		F Earth history
		G Applied geology
		H Planetary geology
		J Quaternary research
		K Geologic hazard

## (Earth and planetary science)

Item Number	Research Field	Keyword
4405	Stratigraphy/ Paleontology	A Stratigraphic succession
		B Paleoenvironment
		C Fossil
		D Phylogeny/Evolution/Diversity
		E Paleocology
		F Paleobiogeography
		G Function/Morphology
		H Paleo-ocean
4406	Petrology/ Mineralogy/ Science of ore deposit	A Terrestrial and planetary material
		B Terrestrial and planetary evolution
		C Crust/Mantle/Core
		D Magma/Igneous rock
		E Metamorphic rock
		F Natural and artificial crystals
		G Element fractionation
		H Mineral resources
		J Ore deposit formation
		K Mineral physics
		L Biologic and environmental minerals
		4407
B Isotope/Radiometric age		
C Material recycling		
D Chemistry of the crust and mantle		
E Chemistry of the extraterrestrial material		
F Atmospheric and hydrospheric chemistry		
G Biosphere geochemistry		

## Discipline: Plasma science

Item Number	Research Field	Keyword
4501	Plasma science	A Basic studies of plasma
		B Plasma applications
		C Plasma diagnostic techniques and instrumentation
		D Plasma physics
		E Electric discharges
		F Reactive plasmas
		G Space and astrophysical plasmas
		H Burning plasma
		J Plasma chemistry
		K Plasma control/Laser

## Area: Chemistry

## Discipline: Basic chemistry

Item Number	Research Field	Keyword
4601	Physical chemistry	A Molecular structure
		B Crystal structure
		C Electronic state
		D Molecular dynamics
		E Chemical reaction
		F Reaction dynamics
		G Cluster
		H Solution/Colloid
		J Molecular spectroscopy
		K Molecular excitation process elementary
		L Quantum beam
		M Electron/Energy transfer
		N Surface/Interface
		P Theoretical chemistry
		Q Electrochemistry
		R Spin chemistry
		S Biophysical chemistry
		4602
B Organic reaction chemistry		
C Synthetic organic chemistry		
D Organoelement chemistry		
E Organic photochemistry		
F Physical organic chemistry		
G Theoretical organic chemistry		
4603	Inorganic chemistry	A Metal complex chemistry
		B Organometallic chemistry
		C Inorganic solid-state chemistry
		D Solution chemistry
		E Bioinorganic chemistry
		F Nuclear/Radiochemistry
		G Cluster
		H Supramolecular complex
		J Polynuclear complex
		K Coordination polymer

## Discipline: Applied Chemistry

Item Number	Research Field	Keyword		
4701	Analytical chemistry	A Sample preparation		
		B Chemical analysis		
		C Biological analysis		
		D Chemical analysis by nuclear methods		
		E Separation analysis		
		F Chemical sensors		
		G Chip analysis		
		H Chromatography		
		J Instrumental analysis		
		K Surface and interface analysis		
		L Chemical speciation		
		M Environmental analysis		
		N Bio-material analysis		
		P Biosensors		
4702	Synthetic chemistry	A Selective synthesis/reaction		
		B Complex/Organometallic catalysis		
		C Fine chemicals		
		D Asymmetric synthesis/reaction		
		E Catalyst design/reaction		
		F Environmentally friendly reaction		
		G Reaction field		
		H Automatic synthesis		
		J Biotic synthesis technique		
		K Combinatorial method		
		4703	Polymer chemistry	A Polymer synthesis
				B Polymer reaction/degradation
				C Asymmetric polymerization
				D Polymerization catalyst
E Non-covalent polymer				
F Self-assembled polymer				
G Polymer structure				
H Polymer properties				
J Functional polymer				
K Bio-related polymer				
L Polymer thin film/surface				
M Polymer complex				
N Environment-related polymer				
4704	Functional materials chemistry			A Optical properties
		B Electric/Magnetic function		
		C Molecular devices		
		D Sensors		
		E Molecular recognition		
		F Supramolecule		
		G Liquid crystal/Crystal		
		H Film/Assembly		
		J Surface/Interface		
		K Colloid/Ultrafine particle		
		L Electrochemistry		
		M Functional catalysts		
		4705	Environmental chemistry	A Green chemistry
				B Recycle chemistry
C Low environmental load substances				
D Biodegradable substances				
E High-functional catalysts				
F Trace environmental substance evaluation				
G Reaction media				
H Safety chemistry				
J Micro-chemical methods				
K Highly efficient reaction design				
4706	Chemistry related to living body			A Biofunctional chemistry
				B Biomacromolecule chemistry
				C Bioinorganic chemistry
				D Natural products chemistry
		E Bioorganic chemistry		
		F Biotechnology		
		G Nucleic acid/Protein/Sugar chemistry		
		H Enzyme chemistry		
		J Biological recognition/Biofunctional chemistry		
		K Post-genomic drug discovery		
		L Biofunctional materials		

**Discipline: Materials chemistry**

Item Number	Research Field	Keyword
4801	Functional materials/ Devices	A Liquid crystal materials/devices
		B Organic EL devices
		C Organic semiconductor devices
		D Optical materials/devices
		E Organic electronic materials/devices
		F Devices for electric conduction
		G Molecular devices
		H Electric/Magnetic devices
		J Battery
		K Condenser (Capacitor)
		L Biofunctional applied devices
4802	Organic industrial materials	A Functional organic materials
		B Hybrid materials
		C Surfactant
		D Dye/Pigment
		E Dye/Color materials
		F Printing/Ink
		G Resist
		H Glue
		J Selective reaction
		K New functional group
		4803
B Glass		
C Ceramics		
D Fine particles/Powder		
E Layered/Intercalation compound		
F Ion exchanger/conductor		
G Inorganic synthesis		
H Photocatalyst		
J Electrochemistry		
K Nanoparticle		
L Porous materials		
M Hybrid materials		
4804	Polymer/ Textile materials	A Polymeric material properties
		B Polymeric material synthesis
		C Textile materials
		D Rubber materials
		E Gel
		F Polymeric functional materials
		G Natural/Biopolymeric materials
		H Polymer alloy
		J Polymer composites
		K Polymer/Textile processing
		L Computational polymer science

**(Applied physics)**

Item Number	Research Field	Keyword
4903	Applied optics/ Quantum optical engineering	A Optics
		B Optical elements/Instrumentation/Materials
		C Imaging/Optical information processing
		D Vision
		E Quantum electronics
		F Laser
		G Nonlinear optics
		H Quantum optics
		J Photonic crystals
		K Opt-electronics
		L Micro-and nano-optics
		M Optical sensing
		N Optical recording
		P Light control
		Q Photo-processing
4904	Applied physics, general	A Force
		B Heats
		C Sounds
		D Waves
		E Electromagnetism
		F Physical measurements and control
		G Standards
		H Sensors
		J Micromachines
		K Energy conversion
		L Plasma physics
M Radiation		
N Accelerators		
4905	Engineering fundamentals	A Mathematical engineering (mathematical analysis/plan/design/optimization)
		B Physical mathematics
		C Computational mechanics
		D Simulation engineering

**Discipline: Mechanical engineering**

Item Number	Research Field	Keyword
5001	Materials/ Mechanics of materials	A Material design/Process/Mechanical properties/Evaluation
		B Continuum mechanics
		C Structural mechanics
		D Damage mechanics
		E Fracture
		F Fatigue
		G Environments
		H Reliability
		J Biomechanics
		K Micromechanics of materials
		5002
B Production Systems		
C Production management		
D Process design		
E Machine tools		
F Forming process		
G Cutting/Grinding process		
H Special processing		
J Ultraprecision machining		
K Nano/Micro machining		
L Precise positioning/Measurements		
5003	Design engineering/ Machine functional elements/ Tribology	A Design engineering
		B Shape modeling
		C Computer aided design (CAD)/Computer aided engineering (CAE)
		D Synectics
		E Dynamics of mechanisms
		F Machine elements
		G Functional components
		H Failure diagnostics
		J Safety design
		K Life cycle analysis and design
		L Tribology

**Area: Engineering**

**Discipline: Applied physics**

Item Number	Research Field	Keyword
4901	Applied materials science/ Crystal engineering	A Metal
		B Semiconductor
		C Magnetic material
		D Superconductor
		E Amorphous
		F Dielectric
		G Ceramics
		H Crystal growth
		J Epitaxial growth
		K Crystal characterization
		L Heterostructure
		M Optical properties
		N Particulate
		P Organic molecule
		Q Liquid crystal
		R New functional materials
		S Spintronics
T Organic/Molecular electronics		
U Bioelectronics		
4902	Thin film/ Surface and interfacial physical properties	A Thin film
		B Surface
		C Interface
		D Plasma process
		E Vacuum
		F Beam application
		G Scanning probe microscopy
		H Electron microscopy

## (Mechanical engineering)

Item Number	Research Field	Keyword		
5004	Fluid engineering	A Computational fluid dynamics		
		B Flow measurements		
		C Compressible/Incompressible flow		
		D Turbulent flow		
		E Multi-phase flow		
		F Reacting flow		
		G Non-Newtonian flow		
		H Micro flow		
		J Molecular fluid dynamics		
		K Bio-fluid mechanics		
		L Environmental fluid mechanics		
		M Acoustics		
		N Fluid machinery		
		P Fluid power systems		
5005	Thermal engineering	A Thermophysical property		
		B Convection		
		C Heat conduction		
		D Thermal radiation		
		E Mass transfer		
		F Combustion		
		G Micro/Nanoscale heat transfer		
		H Thermal engine		
		J Refrigeration/Air conditioning		
		K Heat transfer equipment		
		L Energy use		
		M Bio-thermal engineering		
		5006	Dynamics/Control	A Dynamics
				B Dynamic design
C Vibration mechanics				
D Vibration analysis/tests				
E Control instrument				
F Motion control				
G Vibration control				
H Mechanical measurements				
J Aseismic/Seismic isolation design				
K Vehicle and transport system control				
L Acoustic information/Acoustical control				
M Acoustic energy				
5007	Intelligent mechanics/Mechanical systems			A Robotics
				B Mechatronics
		C Micro/Nano mechatronics		
		D Biomechanics		
		E Softmechanics		
		F Information equipment/Intelligent (smart) machine systems		
		G Precision mechanics and systems		
		H Human-machine systems		
		J Information systems		

## (Electrical and electronic engineering)

Item Number	Research Field	Keyword
5104	Communication/Network engineering	A Electronic circuits and systems
		B Nonlinear theory/circuits
		C Information theory
		D Signal processing
		E Communication systems (wireless, wired, satellite, optical and mobile)
		F Modulation/Demodulation
		G Coding/Decoding
		H Protocol
		J Antennas
		K Routing/Switching
		L Networks/Local area networks (LAN)
		M Multimedia
		N Cryptography/Security
		5105
B Social engineering		
C Industrial engineering and management		
D Environmental engineering		
E Production system engineering		
F Biological engineering		
5106	Measurement engineering	A Measurement technology
		B Sensing devices
		C Measuring/Analyzing instruments
		D Measurement systems
		E Signal processing
		F Sensing information processing
5107	Control engineering	A Control theory
		B System theory
		C Knowledge-based control
		D Control technology
		E Control systems
		F Complex systems

## Discipline: Civil engineering

Item Number	Research Field	Keyword		
5201	Civil engineering materials/Construction/Construction management	A Concrete		
		B Steel		
		C Bituminous material		
		D Composite material/New materials		
		E Timber		
		F Construction		
		G Maintenance/Management		
		H Construction business plan/Construction design		
		J Construction management		
		5202	Structural engineering/Earthquake engineering/Maintenance management engineering	A Applied mechanics
				B Structural engineering
C Steel structure				
D Concrete structure				
E Hybrid structure				
F Wind engineering				
G Earthquake engineering				
H Earthquake resistant structure				
J Earthquake disaster prevention				
K Maintenance engineering				
5203	Geotechnical engineering			A Soil mechanics
		B Foundation engineering		
		C Rock engineering		
		D Engineering geology		
		E Ground behavior		
		F Ground and structure		
		G Geotechnical disaster prevention		
		H Geo-environmental engineering		
5204	Hydraulic engineering	A Hydraulics		
		B Environmental hydraulics		
		C Hydrology		
		D River engineering		
		E Water resources engineering		
		F Coastal engineering		
		G Port engineering		
		H Ocean engineering		
5205	Civil engineering project/Traffic engineering	A Infrastructure planning		
		B Regional/Urban planning		
		C Nationwide spatial planning		
		D Disaster prevention planning/Environmental planning		
		E Transportation planning		
		F Traffic engineering		
		G Railway engineering		
		H Surveying/Remote sensing		
		J Landscape architecture/Design		
		K Infrastructure history		

## Discipline: Electrical and electronic engineering

Item Number	Research Field	Keyword
5101	Power engineering/Power conversion/Electric machinery	A Electrical energy engineering (generation/conversion/storage, and energy conservation)
		B Power system engineering
		C Electric machinery
		D Power electronics
		E Effective utilization of electric energy
		F Electric/Electromagnetic compatibility
		G Illumination/Lighting
5102	Electronic materials/Electric materials	A Electrical and electronic materials (semiconductor, dielectric, magnetic, ferro-dielectric, organic, insulator, superconductor, etc.)
		B Thin film/Quantum structure
		C Thick film
		D Fabrication/Characterization method
5103	Electron device/Electronic equipment	A Electron device/Integrated circuits
		B Circuit design/Computer aided circuit design (CAD)
		C Optical devices and circuits
		D Quantum devices/Spintronic devices
		E Microwave/Millimeter wave
		F Wave technology and applications
		G Bio devices
		H Information storage/record
		J Display
		K Sensing
		L Micro fabrication process technology
M Interconnect, packaging and system integration		

## (Civil engineering)

Item Number	Research Field	Keyword
5206	Civil and environmental engineering	A Environmental planning and management
		B Environmental systems
		C Environmental conservation
		D Water and wastewater systems
		E Domestic and industrial wastes
		F Soil and water environments
		G Atmospheric circulation/Noise and vibration
		H Ecological engineering

## (Material engineering)

Item Number	Research Field	Keyword		
5402	Inorganic materials/ Physical properties	A Crystal structure/Microstructure control		
		B Mechanical/Electronic/Electromagnetic/Optical/Thermal properties		
		C Surface/Interface properties		
		D High-temperature properties		
		E Grain boundary characteristics		
		F Functional ceramics		
		G Functional glass		
		H Structural ceramics		
		J Carbon material		
		K Dielectric materials		
		L Inorganic polymer		
		5403	Composite materials/ Physical properties	A Organic/Inorganic fibers
				B Matrix materials
				C Composite effect
				D Dispersion strengthening
				E Continuous fiber reinforcement
F Fiber reinforced metals (FRM)				
G Fiber reinforced plastics (FRP)				
H Fiber reinforced ceramics (FRC)				
J Functionally gradient				
K Composite particle				
L Composite fracture				
M Composite deformation stress				
N Interface failure				
P Reaction sintering				
Q Complex polymer				
5404	Structural/ Functional materials			A Strength/Toughness/Fracture/Fatigue/Creep/Stress corrosion cracking/Superplasticity/Wear
		B Nanostructure		
		C Magnetic materials		
		D Electronic/Information materials		
		E Hydrogen storage materials		
		F Fuel cell materials		
		G Materials for heat and energy		
		H Sensor materials/Optical functional materials		
		J Cryogenic material		
		K Earthquake resistant/ Environmental resistant materials		
		L Biomaterials		
		M High-temperature materials		
		N Amorphous materials		
		P Intelligent/Safety/Relieved material		
		Q New functional materials		
		R Environment-conscious materials		
S Functional polymeric material				
5405	Material processing/ treatments	A Surface/Interface control		
		B Corrosion anticorrosion		
		C Plastic forming		
		D Powder metallurgy		
		E Heat treatment		
		F Joining/Welding		
		G Crystal/Microstructure control		
		H Nano process		
		J Microfabrication		
		K Plasma treatment/Laser processing		
		L Thermal spraying/Coating/Particle deposition process		
		M Plating process		
		N Non destructive inspection		
		P Thin film process		
		Q Nonequilibrium process		
		R Mechanical alloying		
S Precision molding process				
T Electrocatalysis				
U Repair/Life-prolonging treatment				
V Electrical connection/Wiring				

## Discipline: Architecture and building engineering

Item Number	Research Field	Keyword
5301	Building structures/ materials	A Load theory
		B Structural analysis
		C Structural design
		D Concrete structure
		E Steel structure
		F Foundation
		G Structural material
		H Building construction method
		J Maintenance technology
		K Earthquake disaster prevention
		L Structure control
		M Earthquake resistant design
		N Wind resistant design
		5302
B Light environment		
C Heat environment		
D Air environment		
E Environmental equipment planning		
F Environmental psychology/physiology		
G Building equipment		
H Fire engineering		
J Global/Urban environment		
K Environment designing		
5303	Town planning/ Architectural planning	
		B Design theory
		C Housing theory
		D Building types/District facilities
		E Urban/Regional planning
		F Administration/System
		G Building/Urban economy
		H Production management
		J Disaster prevention planning
		K Landscape/Environmental planning
		5304
B Urban history		
C Architectural theory		
D Design		
E Style		
F Landscape/Environment		
G Preservation/Renovation		

## Discipline: Material engineering

Item Number	Research Field	Keyword
5401	Physical properties of metals	A Electronic/Magnetic properties
		B Properties of semiconductors
		C Thermal properties
		D Optical properties
		E Mechanical properties
		F Superconductor
		G Properties of thin films
		H Properties of nano materials
		J Computational material properties
		K Surface/Interface/Grain boundary properties
		L Fine particulate/Cluster
		M Quasicrystals
		N Radiation damage
		P Atomic/Electronic structure
		Q Lattice defects
		R Diffusion/Phase transformation/Phase diagram

## (Material engineering)

Item Number	Research Field	Keyword
5406	Metal making engineering	A Reaction/Separation
		B Materials refining
		C Melting/Solidification
		D Foundry
		E Crystal growth
		F Microstructure control
		G Purification
		H Various manufacturing process
		J Energy saving process
		K Extreme condition/Environmental conscious process
		L Ecological materials
		M Resource separation/Resource conservation
		N Waste management
		P Material recycling process
		Q Recycling
		R Materials engineering for safety

## Discipline: Integrated engineering

Item Number	Research Field	Keyword		
5601	Aerospace engineering	A Aerodynamics		
		B Structure/Material		
		C Vibration/Strength		
		D Guidance/Navigation/Control		
		E Propulsion/Engine		
		F Flight dynamics		
		G Aerospace system		
		H Design/Instrumentation		
		J Special aircraft		
		K Space utilization/Exploration		
		L Aerospace environment		
		5602	Naval and maritime engineering	A Propulsion/Vessel dynamics
				B Material/Structural mechanics
				C Marine hydrodynamics
				D Planning/Design/Production system
				E Shipbuilding/Equipment
				F Maritime transportation system
				G Marine engine/Fuel
H Marine environment				
J Marine resources/Energy				
K Ocean exploration/Equipment				
L Undersea and subsea engineering				
M Polar engineering				
5603	Earth system and resources engineering			A Applied geology
				B Geo-engineering
				C Remote sensing
				D Monitoring in Geo-engineering
				E Earth systems
				F Resource exploration
		G Natural resource development		
		H Resource evaluation		
		J Mineral processing		
		K Underground disposal and storage		
		L Contaminated soil remediation		
		M Development and utilization of deep underground		
		N Material resources		
		P Renewable source/Energy		
		Q Economic resources		
		5604	Recycling engineering	A Waste reduction
				B Reuse
				C Cascade recycling/Utilization
D Recycling				
E Waste valuable recovery				
F Solid-solid separation				
G Purification of materials				
H Proper treatment and disposal of waste				
J Recycling and LCA				
K Environmentally conscious design				
L Green productions				
M Zero emission				
5605	Nuclear fusion studies			A Core plasma
				B Peripheral plasma
				C Plasma measurement
				D Plasma-wall interaction
				E Theoretical simulation
				F Low activation material
		G Fuel/Blanket		
		H Electromagnet		
		J Inertial confinement fusion		
		K Fusion systems engineering		
		L Safety/Biological influence		
		5606	Nuclear engineering	A Radiation engineering/Beam science
				B Reactor physics/Nuclear data
				C Nuclear measurements/Radiation physics
				D Thermo-hydrodynamics/Structure
				E System design/Safety engineering
				F Nuclear material/Nuclear fuel
				G Isotope/Radiation chemistry
H Fuel cycle				
J Backend				
K Advanced reactors				
L Health physics/Environmental safety				
M Social environment of nuclear energy				
5607	Energy engineering			A Energy generation/conversion
				B Energy transport/storage
				C Energy saving/Efficient use of energy
				D Energy system
				E Environmental harmony
				F Natural energy use

## Discipline: Process engineering

Item Number	Research Field	Keyword		
5501	Properties in chemical engineering process/ Transfer operation/ Unit operation	A Equilibrium/Transport properties		
		B Fluid/Heat transfer/Mass transfer operation		
		C Distillation		
		D Extraction		
		E Absorption		
		F Adsorption		
		G Ion exchange		
		H Membrane separation		
		J Hetero-phase separation		
		K Ultra high separation		
		L Stirring/Blending operation		
		M Granular and powdered materials operation		
		N Crystallization procedure		
		P Thin film/Microparticle forming operation		
		Q Polymer processing		
		5502	Reaction engineering/ Process system	A Gas/Liquid/Solid/Supercritical fluid operation
				B Novel reaction field
				C Reaction rate
D Reaction mechanism				
E Reaction apparatus				
F Materials synthesis process				
G Polymerization process				
H Measurement				
J Sensors				
K Process control				
L Processing system design				
M Process information processing				
N Process operation/Facilities management				
5503	Catalyst/ Resource chemical process			A Catalysis reaction
				B Catalyst preparation chemistry
				C Catalyst performance analysis
				D Energy conversion process
				E Fossil fuel effective utilization technology
		F Resources/Energy effective utilization technology		
		G Resources/Energy saving technology		
		H Combustion technology		
5504	Biofunction/ Bioprocess	A Biocatalyst engineering		
		B Biofunction engineering		
		C Food engineering		
		D Medicochemical engineering		
		E Applied bioelectrochemistry		
		F Bioproduction process		
		G Bioreactor		
		H Biosensor		
		J Bioseparation		
		K Bioinformatics		

**Category: Biological Sciences**

(Biological science)

**Area: Biology**

**Discipline: Basic biology**

Item Number	Research Field	Keyword		
5701	Genetics/ Genome dynamics	A Molecular genetics		
		B Cytogenetics		
		C Population genetics		
		D Evolutionary genetics		
		E Human genetics		
		F Genetic diversity		
		G Genome architecture, reorganization, and maintenance		
		H Genomic function and expression		
		J Developmental genetics		
		K Behavioral genetics		
		L Mutagen		
		M Chromosome		
		N Model organism		
		5702	Ecology/ Environment	A Population
B Society				
C Species interaction				
D Assemblage				
E Ecosystem				
F Evolutionary ecology				
G Behavioral ecology				
H Natural environment				
J Physiological ecology				
K Molecular ecology				
L Conservation ecology				
5703	Plant molecular biology/ Plant physiology			A Plastid function/Photosynthesis
				B Phytohormones/Growth and development/Totipotency
				C Organelles/Cell wall
		D Response to environmental factors		
		E Plant-microbe interaction/Symbiosis		
		F Metabolism		
		G Plant molecular function		
5704	Morphology/ Structure	A Animal morphology		
		B Plant morphology		
		C Microbial morphology		
		D Comparative endocrinology		
		E Molecular morphology		
		F Morphogenesis		
		G Tissue construction		
H Microstructure				
J Microscopical technique				
5705	Animal physiology/ Animal behavior	A Metabolism		
		B Neurobiology		
		C Neuroethology		
		D Behavioral physiology		
		E Animal physiology and biochemistry		
5706	Biodiversity/ Systematics	A Metabolism physiology		
		B Classification system		
		C Evolution		
		D Genetic diversity		
		E Population/Species diversity		
		F Community/Ecosystem diversity		
		G Taxonomic character		
		H Phylogenetics		
		J Speciation		
		K Natural history		
		L Museum		

**Discipline: Biological science**

Item Number	Research Field	Keyword
5801	Structural biochemistry	A Carbohydrate
		B Lipid
		C Nucleic acid
		D Protein
		E Enzyme
		F Gene and chromosome
		G Biological membrane and receptor
		H Intercellular matrix
		J Organelles
		K Posttranslational modification
		L Molecular recognition and interaction
		M Denaturation and folding
		N Structural analysis and prediction
		P NMR
		Q Mass spectrometry
		R X-ray crystallography
		S High resolution electron microscopy

Item Number	Research Field	Keyword		
5802	Functional biochemistry	A Catalytic mechanism of enzyme		
		B Regulation of enzyme		
		C Allosteric effect		
		D Enzyme abnormality		
		E Gene expression and replication		
		F Biological energy transduction		
		G Metalloprotein		
		H Biological trace element		
		J Hormone and bioactive substances		
		K Cell signal transduction		
		L Membrane transport and transporters		
		M Proteolysis		
		N Cytoskeleton		
		P Immunobiochemistry		
Q Glycobiology				
R Bioelectrochemistry				
5803	Biophysics	A Structure, dynamics and functions of proteins and nucleic acids		
		B Motility/Transport		
		C Biomembranes/Receptors/Channels		
		D Photobiology		
		E Cellular signaling and dynamics		
		F Neural information processing		
		G Theoretical biology/Bioinformatics		
		H Structural biology		
		J Folding		
		K Prediction of structure and function		
		L Single-molecule measurements and manipulation		
		M Bioimaging		
		N Non-equilibrium/Complex systems		
		5804	Molecular biology	A DNA replication
B DNA damage and repair				
C Recombination				
D Transcription				
E RNA				
F Translation				
G Protein modification				
H Intermolecular interaction				
J Chromosomal organization, function and segregation				
5805	Cell biology	A Cell structure and function		
		B Biomembrane		
		C Cytoskeleton/Cell motility		
		D Intracellular signaling		
		E Intercellular communication		
		F Cell cycle		
		G Cytokinesis		
H Nuclear structure				
J Cell-cell interaction/Extracellular matrix				
K Protein degradation				
L Chromatin				
5806	Developmental biology	A Cell differentiation		
		B Stem cells		
		C Germ layer formation/Gastrulation/Somitogenesis		
		D Organogenesis		
		E Fertilization		
		F Reproduction/Germ cells		
		G Regulation of gene expression		
		H Developmental genetics		
		J Evolution and development		
		5807	Evolutionary biology	A Origin of life
				B Origin of eukaryotic organisms
C Origin of organelles				
D Origin of multicellularity				
E Molecular evolution				
F Morphological evolution				
G Evolution of function				
H Evolution of genes				
J Evolutionary biology in general				
K Comparative genomics				
L Experimental evolutionary biology				

Discipline: Anthropology

Item Number	Research Field	Keyword
5901	Physical anthropology	A Morphology
		B Prehistory/Chronology
		C Biomechanism
		D Molecular anthropology/Genetics
		E Ecology
		F Primates
		G Evolution
		H Growth/Aging
		J Society
		K Behavior/Cognition
		L Reproduction/Development
		M Bone archaeology
		N Geographic diversity
		5902
B Ergonomics		
C Physiological polymorphism		
D Environmental adaptive capacity		
E Systemic relationship		
F Functional potential		
G Techno-adaptability		
H Somatometry		
J Clothing		
K Somatology/Adaptation		
L Constitution/Health		
M Forensic anthropology		
N Medical anthropology		

Area: Agricultural sciences

Discipline: Agriculture

Item Number	Research Field	Keyword		
6001	Breeding science	A Plant breeding/Plant genetics		
		B Breeding theory		
		C Genetic resources/Phylogeny		
		D Plant molecular breeding		
		E Resistance/Tolerance		
		F Generation of genetic diversity/Analysis of genetic diversity		
		G Gene/Protein		
		H Chromosome engineering		
		J Plant genome information		
		K Quality/Composition		
		L Developmental physiology/Developmental genetics		
		6002	Crop science/Weed science	A Food crop
				B Industrial crop
				C Forage crop
D Cultivation system				
E Crop quality/Crop processing				
F Weed science				
G Weed control				
H Wild plant resources				
6003	Horticulture/Landscape architecture	A Fruit tree		
		B Vegetable		
		C Flower		
		D Use of horticultural plants		
		E Storage of horticultural plants/Processing of horticultural plants		
		F Protected horticulture		
		G Landscaping		
		H Landscape formation/Landscape conservation		
		J Open space planning		
		6004	Plant pathology	A Pathologic
B Pathological physiology				
C Plant-pathogen interactions				
D Pathogenicity factor/Virulence factor				
E Disease control				
F Disease resistance				
G Phylogenetic systematics				
H Infection/Proliferation				
6005	Applied entomology	A Animal pest		
		B Animal pest management		
		C Insect properties development and utilization		
		D Insect pathology		
		E Sericulture/Silk		
		F Insect ecology		
		G Insect physiology		
		H Insect classification		
		J Insect pest management/Biological control		
		K Insect molecular biology		
		L Insect behavior		

Discipline: Agricultural chemistry

Item Number	Research Field	Keyword
6101	Plant nutrition/Soil science	A Plant physiology, growth and development
		B Plant nutrition and metabolism
		C Plant metabolic regulation
		D Fertilizer
		E Soil classification
		F Soil physics
		G Soil chemistry
		H Soil organisms
		J Soil environment
		6102
B Fermentative production		
C Microbial classification		
D Microbial genetics/breeding		
E Microbial enzyme		
F Microbial metabolism		
G Microbial function		
H Microbial application		
J Environmental microorganism		
K Antibiotic production		
L Microbial ecology		
M Control of microbe		
N Genetic resources		
P Gene expression		
6103	Applied biochemistry	A Animal biochemistry
		B Plant biochemistry
		C Enzyme application
		D Genetic engineering
		E Protein engineering
		F Bioengineering
		G Metabolic engineering
		H Cell/Tissue culture
		J Enzyme chemistry
		K Metabolism and physiology
		L Gene expression
		M Production of useful material
		N Cellular response
		P Signal transduction
		Q Trace element
		6104
B Regulator of cell function		
C Pesticide science		
D Plant growth substance		
E Signal molecule		
F Biosynthesis		
G Natural products chemistry		
H Bioinorganic chemistry		
J Physical chemistry		
K Analytical chemistry		
L Organic chemistry		
M Bioregulatory chemistry		
N Molecular recognition		
6105	Food science	
		B Provisions chemistry
		C Food biochemistry
		D Food physics
		E Food engineering
		F Food function
		G Food preservation
		H Food manufacturing/processing
		J Nutritional chemistry
		K Nutritional biochemistry
		L Food safety
		M Food analysis

**Discipline: Forestry**

Item Number	Research Field	Keyword
6201	Forest science	A Forest productivity/Tree breeding
		B Forest ecology/Forest protection/Forest conservation
		C Forest biology
		D Forest management/Forest policy
		E Forest landscape
		F Forest utilization
		G Revegetation/Environmental conservation forest
		H Erosion control/Erosion and torrent improvement
		J Landcollapse/Landslide/Mudflow
		K Water conservation/Water quality
		6202
B Materials/Physical properties		
C Cellulose		
D Lignin		
E Extractives/Minor extractives		
F Chemical processing		
G Preservation/Wood culture		
H Drying/Machining		
J Adhesion/Wood based material		
K Strength/Wooden construction		
L Habitability/Sensibility		
M Woody biomass		
N Pulp/Paper		

**Discipline: Fisheries science**

Item Number	Research Field	Keyword
6301	General fisheries	A Taxonomy
		B Development
		C Morphology
		D Physiology
		E Ecology/Behavior
		F Fishery
		G Resources/Resource management
		H Aquaculture
		J Genetics/Hereditiy/Breeding
		K Fish disease
		L Aquatic environment/Conservation
		M Algae/Seaweeds
		N Plankton
		P Microorganisms
		Q Harmful algae
6302	Fisheries chemistry	A Biochemistry
		B Metabolism/Enzyme
		C Fish nutrition
		D Molecular biology
		E Bioengineering
		F Biopolymer
		G Natural products chemistry
		H Analytical chemistry
		J Food chemistry
		K Food processing/Preservation
		L Hygiene/Food sanitation
M Food microorganism		

**Discipline: Agro-economics**

Item Number	Research Field	Keyword
6401	Agronomy	A Farm management
		B Agricultural policy
		C Agricultural economy
		D Agricultural finance
		E Agricultural history
		F International agriculture
		G Regional planning
		H Rural society
		J Agriculture and environment
		K Food system
		L Marketing
M Food safety		
N Agricultural ethics		

**Discipline: Agro-engineering**

Item Number	Research Field	Keyword
6501	Irrigation, drainage and rural engineering/Rural planning	A Hydraulics
		B Hydrology
		C Soil physics
		D Soil mechanics/Applied mechanics
		E Land improvement facilities
		F Material/Construction
		G Irrigation and drainage
		H Land improvement/Agricultural land use planning
		J Regional planning/Community development
		K Regional environment/Countryside landscape
		L Rural ecosystem
M Water pollution/Water environment		
N Material circulation		
P Soil conservation/Disaster prevention		
6502	Agricultural environmental engineering	A Agricultural production environment
		B Bioproduction machinery
		C Postharvest engineering
		D Bioproduction system
		E Farming technology management
		F Agricultural labour science
		G Supply chain management
		H Environment control in biology
		J Greenhouse horticulture/Plant factory
		K Bioprocessing
		L Natural energy use
M Agricultural meteorology/Micrometeorology		
N Meteorological disasters		
P Global warming impacts		
Q Greening environment		
6503	Agricultural information engineering	A Image processing/Image recognition
		B Nondestructive measurement
		C Bioinstrumentation
		D Biosensing
		E Bioinformatics
		F Remote sensing
		G Geographic information system
		H Modeling/Simulation
		J Computer network
		K ICT/Knowledge processing
		L Agricultural robotics
		M Precision agriculture
		N Bioenvironmental information
		P Agricultural information
		Q Farming information

Discipline: Zootechnical science/Veterinary medical science

Item Number	Research Field	Keyword
6601	Zootechnical science/ Grassland science	A Grassland ecology
		B Grassland utilization
		C Grassland management/Conservation
		D Feed/Feedstuffs
		E Nutrition/Feeding
		F Livestock production system
		G Livestock management/Welfare
		H Wild animal management/utilization
		J Animal product utilization
		K Livestock biomass
		6602
B Reproduction		
C Metabolism/Endocrine control		
D Functional substance		
E Developmental biotechnology		
F Cloned livestock		
G Livestock genome		
H Wildlife protection/Proliferation		
6603	Basic veterinary science/ Basic zootechnical science	
		B Embryology/Fetal development
		C Physiology
		D Morphology
		E Pharmacology
		F Pathology
		G Pathological condition
		H Pathogenic microorganism
		J Parasitology
		K Immunology
		L Biological information
		M Behavior
		6604
B Veterinary public health		
C Toxicology		
D Disease prevention and control		
E Wildlife		
F Animal welfare		
G Zoonoses		
H Epidemiology		
6605	Clinical veterinary science	
		B Surgery
		C Clinical breeding/Obstetrics
		D Diagnostics
		E Laboratory examination
		F Therapy
		G Prognosis
		H Clinical pathology/Pathological condition
		J Regenerative medicine
		K Anesthesia/Analgetics
		L Radiology
		M Animal nursing

Area: Medicine, dentistry, and pharmacy

Discipline: Pharmacy

Item Number	Research Field	Screening Sub-panel Number / Keyword		
6801	Chemical pharmacy	A Organic chemistry		
		B Synthetic organic chemistry		
		C Biomolecules		
		D Herbal medicine/Natural products chemistry		
		E Mechanistic organic chemistry		
		F Heterocyclic chemistry		
		G Asymmetric synthesis		
6802	Physical pharmacy	A Physical chemistry		
		B Analytical chemistry		
		C Galenical pharmacy		
		D Biophysical chemistry		
		E Isotope pharmaceutical chemistry		
		F Biocomplex chemistry		
		G Molecular structure science		
		H Structural biology		
		J Imaging		
		K Drug delivery		
		L Information science		
6803	Biological pharmacy	A Biochemistry		
		B Molecular biology		
		C Immunology		
		D Cell biology		
		E Developmental biology		
		F Pharmacology		
		G Analytical pharmacology		
		H Neurobiology		
		6804	Drug development chemistry	A Medicinal chemistry
				B Medicinal molecular design
C Bioactive substance				
D Functional science of medicinal molecules				
E Genomic drug development				
F Regulatory science				
6805	Environmental pharmacy	A Environmental hygiene		
		B Environmental chemistry		
		C Environmental dynamics		
		D Food hygienics		
		E Chemical nutrition		
		F Microbiology and infectious diseases		
		G Medicinal resources		
		H Toxicology		
6806	Medical pharmacy	A Clinical pharmaceutical sciences		
		B Pharmacokinetics and drug metabolism		
		C Medical pharmaceuticals		
		D Drug information and clinical toxicology		
		E Clinical chemistry		
		F Drug economics		
		G Personalized medicine		
		H Social pharmacy		
		J Pharmacy management insurance		

Discipline: Boundary agriculture

Item Number	Research Field	Keyword
6701	Boundary agriculture	A Environmental analysis
		B Environmental pollution
		C Environmental reclamation
		D Environmental purification
		E Aquatic pollution
		F Resource recycling systems
		G Biomass
		H Genetic resources
		J Biological environment
		K Resource environment balance
		L Regional agriculture
6702	Applied molecular and cellular biology	A Gene/Chromosome engineering
		B Protein/Glycosylation engineering
		C Metabolic engineering
		D Organelle engineering
		E Cellular engineering
		F Gene expression
		G Development/Differentiation control
		H Cell-cell interaction
		J Intermolecular interaction
		K Biosensor
		L Cellular function
		M Molecular information
		N Functional-molecule design

Discipline: Basic medicine

(Basic medicine)

Item Number	Research Field	Screening Sub-panel Number / Keyword	Item Number	Research Field	Screening Sub-panel Number / Keyword		
6901	General anatomy (including histology/embryology)	A Gross anatomy	6906	Pathological medical chemistry	A Abnormal metabolism		
		B Functional anatomy			B Molecular pathogenesis		
		C Clinical anatomy			C Molecular and gene diagnosis		
		D Comparative anatomy			D Molecular oncology		
		E Radiological anatomy			E Molecular pathogenesis of nutrition		
		F Physical anthropology	6907	Human genetics	A Medical genome science		
		G Morphogenesis and embryogenesis			B Molecular genetics		
		H Teratology			C Cytogenetics		
		J Experimental morphology			D Pharmacogenetics		
		K Anatomical education			E Genetic biochemistry		
		L Cytology			F Genetic epidemiology		
		M Histology			G Genetic diagnostics		
		N Cell differentiation and tissue formation			H Gene therapy		
		P Cell function and morphology			J Genetic counseling		
Q Ultrastructural morphology	K Bioethics						
R Molecular morphology	L Epigenetics						
S Histochemistry	6908	Human pathology	A Brain and nervous system				
T Microscopic technology			B Digestive system and salivary gland				
6902			General physiology	A Molecular and cellular physiology	C Respiratory and mediastinal organs		
				B Biological membrane, channel, transporter and active transport	D Cardiovascular system		
				C Receptor and intracellular signal transduction	E Urogenital and endocrine organs		
				D Stimulation-secretion coupling	F Bone, joint, muscle, skin and sense organs		
				E Epithelial function	G Blood		
				F Heredity, fertilization, development and differentiation	H Molecular pathology		
				G Cellular proliferation and cell death	J Geographic pathology		
				H Cellular motility, morphogenesis and intercellular interaction	K Diagnostic pathology		
				J Microcirculation, peripheral circulation, circulation dynamics and regulation	L Telepathology		
				K Ventilation mechanics, blood gas function and respiratory control	M Environmental pathology		
				L Gastrointestinal motility, absorption and digestion	N Transplantation pathology		
				M Renal function, body fluids, and acid-base balance	6909	Experimental pathology	A Animal
	N Blood coagulation and rheology	B Cells					
	P Pathophysiology	C Molecules					
Q System physiology and physiome	D Ultrastructure						
R Comparative, developmental and genome physiology	E Tumors						
6903	Environmental physiology (including physical medicine and nutritional physiology)	A Environmental physiology	F Inflammation				
		B Physical medicine	G Toxicological pathology				
		C Nutritional physiology	H Developmental pathology				
		D Adaptive and associative physiology	J Animal models				
		E Biorhythm	K Regenerative medicine				
		F Growth, development, and aging	6910	Parasitology (including sanitary zoology)	A Helminth		
		G Stress			B Protozoa		
		H Space medicine			C Arthropod vector		
		J Behavioral physiology			D Pathogenic animals		
		K Biological clock			E Molecule		
		L Hyperthermia physiology			F Epidemiology		
		M Feeding regulation			G Incidence		
		N Social environment			H Genetics		
		P Sleep and arousal			J Immunity		
Q Reproductive physiology	K Tropical diseases and international health						
6904	General pharmacology	A Kidney			6911	Bacteriology (including mycology)	A Pathogenicity
		B Smooth muscle and skeletal muscle					B Infection immunity
		C Gastrointestinal					C Epidemiology
		D Inflammation and immunity					D Genetics
		E Bioactive substance	E Classification				
		F Central nervous system and peripheral nerve	F Diagnosis				
		G Spinal cord and pain	G Structure and physiology				
		H Receptor, channel, transport system, and signal transduction system	6912	Virology	A Molecules		
		J Cardiovascular system and hematology			B Cells		
		K Drug discovery and pharmacogenomics			C Whole body		
		L Drug therapy and toxicology			D Epidemiology		
		M Herbal medicine and pharmacology of natural products			E Pathogenicity		
		6905			General medical chemistry	A Biomolecular medicine	F Diagnosis and treatment
						B Cellular biochemistry (cellular medical chemistry)	G Protection/Vaccine
C Genomic biochemistry (genomic medical chemistry)	H Prions						
D Developmental medicine	A Cytokines						
E Regenerative medicine	B Antibodies						
F Aging medicine	C Antigen recognition						
G Higher order life sciences	D Lymphocytes						
H Intracellular signaling	E Innate immunity						
6909	Experimental pathology	A Animal	6913	Immunology	F Acquired immunity		
		B Cells			G Mucosal immunity		
		C Molecules			H Immunological memory		
		D Ultrastructure			J Immune tolerance/Autoimmunity		
		E Tumors			K Immune surveillance/Tumor immunology		
		F Inflammation			L Immunodeficiency		
		G Toxicological pathology			M Allergy/Immune-related disorder		
		H Developmental pathology			N Immunoregulation/Transplantation immunology		
		J Animal models					
		K Regenerative medicine					

Discipline: Boundary medicine

Item Number	Research Field	Keyword
7001	Medical sociology	A Hospital administration
		B Medical administration
		C Medical informatics
		D Bioethics
		E Medical history
		F Medical and pharmaceutical education
		G Health economics
		H Risk management
		J Quality of medical care
		K Community medicine
		L Health policy science
		M Social security science
		N Care and welfare
		P Health policy evaluation
		Q Infection control science
		7002
B Clinical trials and ethics		
C Pharmaceutical therapeutics		
D Adverse drug reaction and drug interaction		
E Drug transport mechanism		
F Pharmacogenomics		
G Clinical isotope pharmacy		
H Medical devices and pharmacy		
J Drug metabolic enzyme and transporter		
K Imaging		
L Research using human tissue		
M Drug dependence and drug sensitivity		
N Genetic diagnosis and gene therapy		
P Drug delivery		
Q Pharmacoepidemiology		
7003	Laboratory medicine	
		B Clinical pathology
		C Clinical chemistry
		D Immunology and serology
		E Clinical laboratory system
		F Genetic testing
		G Clinical microbiology
		H Laboratory oncology
		J Clinical hematology
		K Physiological laboratory testing

(Society medicine)

Item Number	Research Field	Keyword
7103	Legal medicine	A Forensics
		B Medical ethics
		C Criminal psychiatry
		D Correctional medicine
		E Compensation science
		F Medical record management
		G Forensic examination
		H Alcohol research
		J Forensic odontology
		K DNA polymorphism
		L Forensic pathology

Discipline: Clinical internal medicine

Item Number	Research Field	Screening Sub-panel Number / Keyword
7201	General internal medicine (including psychosomatic medicine)	A Psychosomatic internal medicine
		B Stress science
		C Oriental medicine
		D Alternative medicine
		E Palliative medicine
		F General medicine
		G Primary care
		H Geriatrics
7202	Gastroenterology	1 A Upper gastroenterology (esophagus, stomach, duodenum)
		2 B Lower gastroenterology (small intestine, colon)
		3 C Hepatology
		4 D Biliary-Pancreatology
		5 E Digestive endoscopy
7203	Circulatory organs internal medicine	1 A Clinical cardiology
		2 B Molecular cardiology
		3 C Molecular vascular biology
7204	Respiratory organ internal medicine	1 A Obstructive lung disease
		2 B Non-obstructive lung disease, pulmonary fibrosis, respiratory infection and other diseases
7205	Kidney internal medicine	1 A Nephrology
		B Hypertension
		2 C Water and electrolyte metabolism
		D Hemodialysis
7206	Neurology	1 A Molecular pathophysiology
		B Neuroimmunology
		C Clinical molecular neurogenetics
		D Clinical neurophysiology
		2 E Clinical neuromorphology
		F Clinical neuropsychology
		G Functional neuroimaging
7207	Metabolomics	1 A Disturbances of energy and carbohydrate metabolism
		B Metabolic syndrome
		C Abnormal lipid metabolism
		2 D Disorder of purine metabolism
		E Abnormal bone and calcium metabolism
		F Metabolic electrolyte abnormality
7208	Endocrinology	A Endocrinology
		B Reproductive endocrinology
7209	Hematology	1 A Hematology
		B Hematology/Oncology
		C Thrombosis/Hematostasis
		2 D Transfusion medicine
		E Hematopoietic stem cell transplantation
		F Hematology/Immunology
		G Immune regulation
7210	Collagenous pathology/ Allergology	1 A Connective tissue diseases
		B Rheumatology
		2 C Allergology
		D Clinical immunology
		E Inflammation
7211	Infectious disease medicine	A Infection diagnosis
		B Infection therapy
		C Infection prevention
		D International infection science
		E Infection epidemiology
		F Opportunistic infection

Discipline: Society medicine

Item Number	Research Field	Keyword
7101	Hygiene	A Environmental health
		B Preventive medicine
		C Industrial health
		D Environmental epidemiology
		E Molecular epidemiology
		F Medical statistics
		G Bioethics
		H Environmental toxicology
		J Industrial toxicology
		K Environmental physiology
		L Global environment
		M Disaster accident
		N Ergonomics
		P Traffic medicine
		Q Food sanitation
		7102
B Maternal and child health		
C School health		
D Adult health issues		
E Health/Nutrition		
F Health management		
G Health education		
H Behavioral healthcare		
J Population problem		
K International health		
L Health administration		
M Hospital management		
N Medical informatics		
P Care insurance		
Q Epidemiology		
R Medical examination		
S Mass-screening		

## (Clinical internal medicine)

## Discipline: Clinical surgery

Item Number	Research Field	Screening Sub-panel Number / Keyword	Item Number	Research Field	Screening Sub-panel Number / Keyword				
7212	Pediatrics	A Developmental pediatrics	7301	General surgery	A General surgery				
		B Growth and developmental medicine			1 B Transplant surgery				
		C Pediatric neurology			C Artificial organs science				
		D Pediatric endocrinology			D Vascular surgery				
		E Pediatric metabolism/Nutrition			E Experimental surgery				
		F Hereditary/Teratology			2 F Endocrine surgery				
		G Pediatric health			G Breast surgery				
		H Pediatric social medicine			H Surgical metabolism and nutrition				
		J Pediatric hematology			7302	Digestive surgery	1 A Esophageal surgery		
		K Pediatric oncology					B Gastroduodenal surgery		
		L Pediatric immunology/Allergy/Connective tissue diseases					2 C Colorectal surgery		
		M Pediatric cardiology					D Hepatic surgery		
		N Pediatric respiratory					E Surgery for spleen and portal vein		
		3 P Pediatric infectious disease					F Biliary surgery		
Q Pediatric nephrology/Urology	G Pancreatic surgery								
R Pediatric gastroenterology	7303	Thoracic surgery	1 A Cardiovascular surgery						
A Prenatal diagnosis			B Chest surgery						
B Fetal medicine			2 C Mediastinal surgery						
C Teratology			D Pleural surgery						
D Neonatal medicine			7304	Cerebral neurosurgery			A Head injury		
E Premature baby medicine							B Cerebrovascular disorder		
A Skin diagnostics							1 C Cerebral blood vessel surgery		
1 B Dermatopathology					D Experimental brain surgery				
C Dermatologic oncology					E Diagnostic neuroimaging				
D Laser therapeutics					F Brain tumor				
E Skin physiology					G Functional cranial nerve surgery				
2 F Pigment cell biology					H Pediatric neurological surgery				
G Sexually transmitted diseases					J Spinal cord/Spine disease				
H Infectious diseases					K Brain surgical instruments				
J Inflammation and regeneration	L Radiation neurological surgery								
7213	Embryonic/ Neonatal medicine	A Prenatal diagnosis			7305	Orthopaedic surgery	A Spinal disorders		
		B Fetal medicine					B Muscle/Nerve disorders		
		C Teratology					C Physical therapy		
		D Neonatal medicine	D Musculoskeletal rehabilitation						
		E Premature baby medicine	E Bone and soft tissue tumors						
		A Skin diagnostics	2 F Limb reconstruction surgery						
		1 B Dermatopathology	G Pediatric orthopaedics						
		C Dermatologic oncology	H Musculoskeletal traumatology						
		D Laser therapeutics	J Joint disorders						
		E Skin physiology	3 K Rheumatic diseases						
		2 F Pigment cell biology	L Bone cartilage metabolism						
		G Sexually transmitted diseases	M Sports medicine						
		H Infectious diseases	7306	Anesthesiology/ Resuscitation studies			1 A Anesthesiology		
		J Inflammation and regeneration					B Resuscitation studies		
A Psychopharmacology	C Perioperative management								
1 B Clinical molecular genetics	D Pain management								
C Psychophysiology	7307	Urology			1 A Oncology				
D Psychopathology					B Voiding function and dysfunction				
E Social psychiatry					C Urolithiasis studies				
F Child and adolescence psychiatry					2 D Infectious diseases				
2 G Geriatric psychiatry					E Regenerative medicine				
H Forensic psychiatry					F Teratology				
J Neuropsychology					G Adrenal surgery				
K Liaison psychiatry					3 H Kidney transplantation				
L Psychiatric rehabilitation					J Andrology				
7214					Dermatology	A Medical imaging (including diagnostic)	7308	Obstetrics and gynecology	1 A Obstetrics
			1 B X-Ray/CT	B Reproductive medicine					
			C Magnetic resonance imaging	C Gynecology					
			D Nuclear medicine (including PET)	2 D Gynecologic oncology					
			E Radiopharmaceuticals/Contrast medium	E Menopause medicine					
	F Radiation safety management	7309	Otorhinolaryngology	1 A Otolaryngology					
	G Medical imaging technology			2 B Rhinology					
	2 H Interventional radiology			C Head and neck surgery					
	J Angioplasty/Osteoplasty/Vascular embolization			D Tracheal esophageal study					
	K Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment			E Laryngology					
	L Therapeutic radiology			F Pharyngology					
	M Radiation oncology			7309		Otorhinolaryngology			3 A Otolaryngology
	3 N Radiotherapy physics								B Rhinology
	P Radiotherapy biology								C Head and neck surgery
Q Particle beam therapy	D Tracheal esophageal study								
A Prenatal diagnosis	E Laryngology								
B Fetal medicine	F Pharyngology								
C Teratology									
D Neonatal medicine									
E Premature baby medicine									
A Skin diagnostics									
1 B Dermatopathology									
C Dermatologic oncology									
D Laser therapeutics									
E Skin physiology									
2 F Pigment cell biology									
G Sexually transmitted diseases									
H Infectious diseases									
J Inflammation and regeneration									
A Psychopharmacology									
1 B Clinical molecular genetics									
C Psychophysiology									
D Psychopathology									
E Social psychiatry									
F Child and adolescence psychiatry									
2 G Geriatric psychiatry									
H Forensic psychiatry									
J Neuropsychology									
K Liaison psychiatry									
L Psychiatric rehabilitation									
A Medical imaging (including diagnostic)									
1 B X-Ray/CT									
C Magnetic resonance imaging									
D Nuclear medicine (including PET)									
E Radiopharmaceuticals/Contrast medium									
F Radiation safety management									
G Medical imaging technology									
2 H Interventional radiology									
J Angioplasty/Osteoplasty/Vascular embolization									
K Radiofrequency ablation (RFA)/Stent treatment/Reserver treatment									
L Therapeutic radiology									
M Radiation oncology									
3 N Radiotherapy physics									
P Radiotherapy biology									
Q Particle beam therapy									

## (Clinical surgery)

Item Number	Research Field	Screening Sub-panel Number / Keyword		
7310	Ophthalmology	A Clinical research		
		B Epidemiology study		
		C Social medicine		
		1 D Ocular biochemistry and molecular biology		
		E Ocular cell biology		
		F Ophthalmic genetics		
		G Ocular histology		
		H Ocular pathology		
		J Ocular pharmacology		
		K Ocular physiology		
		L Ocular developmental and regenerative biology		
		2 M Ocular immunology		
		N Ocular microbiology/Infectious diseases		
		P Orthoptic science		
		Q Ophthalmological optics		
		R Ophthalmic medical engineering		
		7311	Pediatric surgery	A Gastroenterology of congenital diseases
				B Surgery of congenital cardiovascular diseases
C Fetal surgery				
D Pediatric urology				
E Pediatric chest surgery				
F Pediatric oncology				
7312	Plastic surgery	A Reconstructive surgery		
		B Wound healing science		
		C Microsurgery		
		D Tissue culture/Transplantation		
		E Regenerative medicine		
7313	Emergency medicine	A Intensive care medicine		
		B Trauma surgery		
		C Emergency resuscitation science		
		D Acute toxicology		
		E Disaster medicine		

## (Dentistry)

Item Number	Research Field	Screening Sub-panel Number / Keyword
7407	Surgical dentistry	1 A Oral and maxillofacial surgery
		2 B Clinical oncology
		C Dental anesthesiology
		3 D Pathobiological examination
		E Oral maxillofacial reconstructive surgery
7408	Orthodontic/ Pediatric dentistry	A Orthodontics
		B Pediatric dentistry
		C Pediatric oral health science
		D Stomatognathic function and mechanics
7409	Periodontal dentistry	A Periodontal immunology
		B Surgical periodontology
		C Preventive periodontology
7410	Social dentistry	A Dental hygiene (including public hygiene/nutrition)
		B Preventive dentistry
		C Oral health administration and management
		D Forensic odontology
		E Gerodontology
		F Psychosomatic medicine dentistry

## Discipline: Nursing

Item Number	Research Field	Screening Sub-panel Number / Keyword
7501	Fundamental nursing	A Nursing philosophy
		B Nursing ethics
		C Nursing art
		D Nursing education
		E Nursing management
		F Nursing policy/Administration
		G Disaster nursing
		H History of nursing
7502	Clinical nursing	A Critical care/Emergency nursing
		B Perioperative nursing
		C Adult nursing (chronic)
		D Rehabilitation nursing
		E Terminal care
		F Oncology nursing
7503	Lifelong developmental nursing	A Family health nursing
		B Maternal/Women's nursing
		C Midwifery
		D Child health nursing
7504	Community health/ Gerontological nursing	A Community health nursing
		B Public health nursing
		1 C School nursing
		D Occupational and environmental health nursing
		E Gerontological nursing
		F Psychiatric/Mental health nursing
		2 G Home nursing
		H Visiting nursing
		J Family health nursing
		K Rehabilitation nursing

## Discipline: Dentistry

Item Number	Research Field	Keyword
7401	Morphological basic dentistry	A Oral anatomy (including histology/embryology)
		B Oral pathology
		C Oral bacteriology
7402	Functional basic dentistry	A Oral physiology
		B Oral biochemistry
		C Dental pharmacology
7403	Pathobiological dentistry/ Dental radiology	A Experimental oncology
		B Immunity/Infection/Inflammation
		C General dental radiology
		D Oral and maxillofacial radiology
7404	Conservative dentistry	A Operative dentistry
		B Endodontist
7405	Prosthetic dentistry	A General prosthodontics
		B Removable denture prosthodontics
		C Fixed partial denture prosthodontics
		D Oral and maxillofacial prosthetics
		E Stomatognathic function
7406	Dental engineering/ Regenerative dentistry	A Dental science and engineering
		B Dental materials science
		C Biomaterials science
		D Adhesion dentistry
		E Regenerative dentistry
		F Oral implantology

## **IV. Screening Panels and Other Matters**

### **1. Screening Panels**

The screening for a Grant-in-Aid for Scientific Research 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.

Document-based screening and screening by deliberation per research field is scheduled to be conducted within the screening committee.

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

(The current “screening and evaluation rules” for Grant-in-Aid for Young Scientists (Start-up) for which a call for proposals will be organized are shown in this manual for application procedures, and can be used for reference. The “screening and evaluation rules” are available on the JSPS website.)

### **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 (This is scheduled for late August.)
- 2) Applications have not been accepted, wish to have the results of the document-based screening, the Scientific Research Grant Committee of the Japan Society for the Promotion of Science (JSPS) will disclose the approximate ranking per research area and the score (average score) given by the judges of the screening committee for each element which is taken into account when rating.

### **4. Handling of Personal Information**

The personal information included in the application documents will be used to eliminate unreasonable reduplication and excessive concentration of competitive funds and to carry out service on Grants-in-Aid for Scientific Research. (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 “Cross-ministerial Research and Development management system (e-Rad)”.

Moreover, in the case of selected research projects, the title of the proposed project, the name of the Principal Investigator, the amount of the budget to be granted, etc. will be disclosed through press release materials, the database of the National Institute of Informatics, etc.

## V. Application Procedures via the Electronic Application System

When applying it is necessary to complete the following procedures via the JSPS electronic application system (hereinafter called “electronic application system”).

### 1. Procedures that need to be done in advance by the research institution (p. “Outline of the Electronic Application Procedures” 1)

- ① When there are researchers who are planning to apply, but who don't have an electronic certificate for research institutions, an ID, or password, they should submit an “Application for Use of the JSPS Electronic Application System” (hereinafter called “Application for Use of the Electronic Application System”) and a return-mail envelope (A4 size and with a return address and a stamp attached) to the JSPS General Affairs Department, Planning and Information Division, System Administrator, after obtaining an electronic certificate via the Cross-ministerial Research and Development management system (hereinafter called “e-Rad”). Based on the submitted application JSPS will send an “ID and password for use of the research institution”.

It takes approximately one week for the “ID and password for use of the research institution” to arrive after submitting the “Application for Use of the Electronic Application System”.

**Note 1** From September 1, 2008 applicants have to use the electronic certificate issued by e-Rad in the electronic application system. If the applicant uses the electronic application system for the first time, or if he or she uses the electronic certificate issued by JSPS, it is necessary to install the electronic certificate issued anew by e-Rad on his/her personal computer. Please refer to “Advance Preparation when Using the System” (<http://www.e-rad.go.jp/shozoku/system/index.html>) on the e-Rad website for information on downloading the e-Rad electronic certificate.

**Note 2** Research institutions that already obtained an electronic certificate issued by e-Rad, an ID and a password issued by JSPS do not need to obtain it again.

**Note 3** It is not necessary to obtain an electronic certificate, an ID and a password for each research category of the grants-in-aid for scientific research.

**Note 4** Please download the form “Application for Use of the JSPS Electronic Application System” from “Information on Electronic Application” (<http://www.shinsei.jsps.go.jp>).

- 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 Operation Manual for People in Charge in the Research Institution (Detailed Version) for information on the concrete way how to provide them.

Moreover, at the time the research institution provides the ID and the password to the researcher, this researcher in question should be registered on the researcher list of the research institution.

**Note 1** Once the ID and the password have been provided they can be used, unless the research institution changes. (This does not apply when the password is altered.)

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

### 2. Procedures that need to be done by the researcher (p. “Outline of the Electronic Application Procedures” 2-(1) – 2-(2))

- ① Researchers who apply as Principal Investigators should access the “electronic application system” from “Information on Electronic Application” (<http://www.shinsei.jsps.go.jp>) using the ID and the password which has been provided by the research institution to which they belong. Next they should enter the application information (to be entered in the website) based on the “Procedures for Preparing and Entering Application Information (to Be Entered in the Website) (Grant-in-Aid for Young Scientists (Start-up))”. Finally they should attach the project description file (items to be entered in the attached file), that has been separately prepared, to the “electronic application system” and prepare the proposal for grant-in-aid (PDF file).

**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 (<http://www.jsps.go.jp/j-grantsinaid/index.html>) before obtaining an ID and a password.

- ② The applicant should check the content of the proposal for grant-in-aid (PDF file) which he or she prepared, and, if there are no mistakes, he or she should 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.)

### 3. Procedures that need to be done by the research institution (p. “Outline of the Electronic Application Procedures” 2-(3))

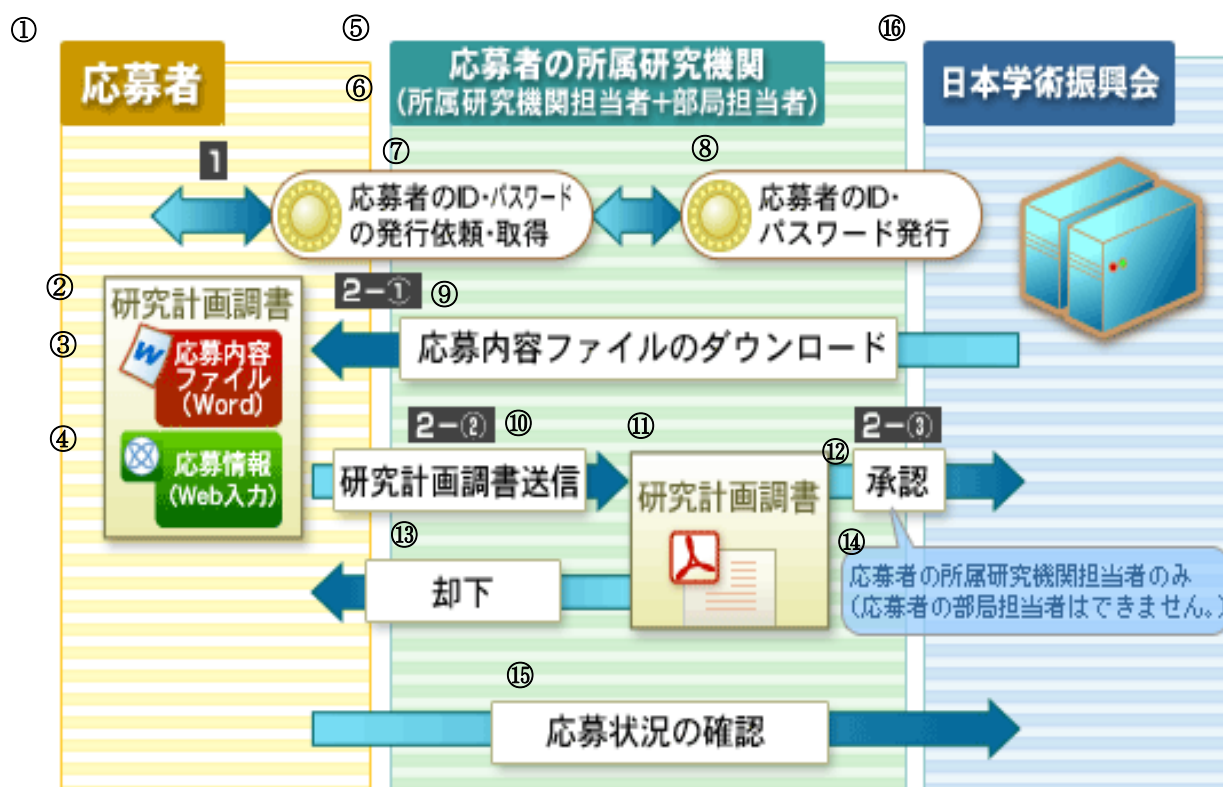
- ① The research institution should access the “electronic application system” from the “Information on Electronic Application” (<http://www-shinsei.jps.go.jp>) using the ID and the password, download the information in the proposal for grant-in-aid (PDF file) that the Principal Investigator prepared, and check the content.
- 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.)

**Note** It is not possible to make corrections or other changes in the proposal for grant-in-aid after submitting (sending) it.

The electronic certificate, the ID and the password which are used in the “electronic application system” 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, for details on electronic application, refer to “Information on Electronic Application” (<http://www-shinsei.jps.go.jp>).

### 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
- ⑧ issue of the applicant’s ID and password
- ⑨ downloading of the project description file
- ⑩ sending the proposal for grant-in-aid
- ⑪ proposal for grant-in-aid
- ⑫ approval

- ⑬ rejection
- ⑭ 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.)
- ⑮ confirmation of the state of the application
- ⑯ 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 accesses the “electronic application system” form “Information on Electronic Application” using the ID and the password he or she received, 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 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**

- 2-(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.

**Note** Download the “Operation Manual” (for projects funded by grants-in-aid for scientific research) from “Information on Electronic Application” (<http://www.shinsei.jps.go.jp>) and please refer to it for further details.

## VI. Administrative Work to Be Performed by the Research Institution

### 1. Verification of the Eligibility to Apply

The research institution should verify whether the Principal Investigator who have been listed in the application documents are eligible to apply, as specified in the Application Procedures and whether he or she is registered in the “researcher list”.

Moreover, the research institution should verify whether he or she is not persons who have been excluded from receiving grants-in-aid due to fraudulent use of grants-in-aid or due to other reasons.

### 2. Verification of the Principal Investigator

The research institution should verify whether the Principal Investigator who have been listed in the application documents prepared the application documents after verifying the section “ I . Details of the Call for Proposals”, which are laid down in the Application Procedures.

### 3. Application Procedures

The following procedures should be completed.

- (1) The application procedures via the electronic application system. (See “V. Application Procedures via the Electronic Application System”, p. 43-45)
- (2) Obtaining sufficient knowledge about the contents of the Application Procedures.
- (3) A Report on the Status of the Implementation of the System, Based on the Guidelines on the Management and Audit of Public Research Funds at Research Institutions (Implementation Standards).

Research institutions which make an application for grants-in-aid for scientific research for FY2009 for the first time should submit a “Report on the Status of the Implementation of the System, Based on the Guidelines on the Management and Audit of Public Research Funds at Research Institutions” to the Office of Research Funding Administration, Research and Coordination Division, Science and Technology Policy Bureau of the Ministry of Education, Culture, Sports, Science and Technology (MEXT) by May 15 (Friday), 2009, using e-Rad. (When using e-Rad, an e-Rad login ID, password, and an electronic certificate are required. Research institutions that still have not obtained them should without delay download a registration form from the e-Rad portal site (<http://www.e-rad.go.jp/>) and complete a registration application in writing. Usually, it takes about 2 weeks to register.) If the report is not submitted, applications from researchers who belong to that research institution will not be accepted. (If the report has already been submitted in FY2008, it is not necessary to submit it again.)

Note: After submission of the report, it sometimes happens that the applicant is requested to cooperate with the on-the-spot investigation on the state of the complete equipment of the system by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) (including its resource distribution organs), as the occasion demands.

**Please direct inquiries to:**

**(for inquiries concerning forms of the guidelines and submission)**

Office of Research Funding Administration,  
Research and Coordination Division  
Science and Technology Policy Bureau  
Ministry of Education, Culture, Sports, Science and Technology (MEXT)  
e-mail: [kenkyuhi@mext.go.jp](mailto:kenkyuhi@mext.go.jp)  
URL: [http://www.mext.go.jp/a\\_menu/02\\_b/08191222/001.htm](http://www.mext.go.jp/a_menu/02_b/08191222/001.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: 9:30-17:30, except on Saturdays, Sundays, National Holidays)  
URL: <http://www.e-rad.go.jp/shozoku/system/index.html>

#### **4. Notification of Changes of the Research Institution Specified by the Minister of Education, Culture, Sports, Science and Technology Based on Article 2 of the Rules on Handling of Grants-in-Aid for Scientific Research (Announcement of the MEXT)**

If any of the following items are scheduled to change, the content of the change should without delay be reported to the Ministry of Education, Culture, Sports, Science and Technology (MEXT):

- ① abolition or dissolution of the research institution,
- ② name and address of the research institution, and name of the representative,
- ③ 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.

#### **5. Verification of the Application Documents**

The “(1) Procedures that need to be done in advance by the research institution” and the “(3) Procedures that need to be done by the research institution”, which are stipulated in the “V. Application Procedures via the Electronic Application System” should be completed, and a summary of the proposal for grant-in-aid should be made, according to the following procedures.

##### **(1) Verification of the “Proposal for Grant-in-Aid”**

Please verify whether the form of the proposal for grant-in-aid is in conformity with the prescribed form.

##### **(2) Application Documents**

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 Young Scientists (Start-up)	To be entered in the electronic application system	S-1-17

#### **6. Submission of the Application Documents and Other Matters**

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

**May 15 (Friday), 2009, 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.

## VII. Reference Material

### 1. Actual funding of Grants-in-Aid for Scientific Research for FY200:

(1) New Projects

As of November 2008

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
<b>Grants-in-Aid for Scientific Research</b>	[ 94,923 ] 99,754	[ 21,086 ] 20,228	[ 22.2 ] 20.3	[ 62,511,900 ] 60,735,195 【 16,034,769 】	[ 2,965 ] 3,003	[ 31,400 ] 42,000
Specially Promoted Research	[ 139 ] 114	[ 20 ] 19	[ 14.4 ] 16.7	[ 2,072,900 ] 1,907,800 【 572,340 】	[ 103,645 ] 100,411	[ 310,400 ] 306,100
Scientific Research on Priority Areas	[ 5,890 ] 5,999	[ 1,210 ] 1,481	[ 20.5 ] 24.7	[ 6,086,500 ] 4,953,000	[ 5,030 ] 3,344	[ 8,700 ] 42,000
Scientific Research on Innovative Areas*1 (Research in a proposed research area)	[ - ] 2,153	[ - ] 198	[ - ] 9.2	[ - ] 3,051,300 【 915,390 】	[ - ] 15,411	[ - ] 67,600
Scientific Research on Innovative Areas*1 (Research a proposed research project)	[ - ] 549	[ - ] 81	[ - ] 14.8	[ - ] 656,900 【 197,070 】	[ - ] 8,110	[ - ] 10,000
Scientific Research (S)	[ 431 ] 551	[ 81 ] 85	[ 18.8 ] 15.4	[ 2,025,300 ] 3,329,400 【 998,820 】	[ 25,004 ] 39,169	[ 54,400 ] 96,800
Scientific Research (A)	[ 2,345 ] 2,439	[ 543 ] 545	[ 23.2 ] 22.3	[ 7,437,200 ] 7,307,000 【 2,192,100 】	[ 13,697 ] 13,407	[ 31,400 ] 31,400
Scientific Research (B)	[ 11,345 ] 11,717	[ 2,649 ] 2,601	[ 23.3 ] 22.2	[ 16,592,200 ] 14,924,200 【 4,477,260 】	[ 6,264 ] 5,738	[ 14,200 ] 14,500
Scientific Research (C)	[ 32,645 ] 32,939	[ 7,736 ] 7,128	[ 23.7 ] 21.6	[ 12,902,400 ] 10,570,900 【 3,171,270 】	[ 1,668 ] 1,483	[ 3,500 ] 3,600
Exploratory Research	[ 15,000 ] 15,605	[ 1,820 ] 1,117	[ 12.1 ] 7.2	[ 3,319,000 ] 1,983,000	[ 1,824 ] 1,775	[ 3,700 ] 3,700
Grant-in-Aid for Young Scientists (S)	[ 1,262 ] 805	[ 35 ] 39	[ 2.8 ] 4.8	[ 600,000 ] 812,100 【 243,630 】	[ 17,143 ] 20,823	[ 49,200 ] 55,800
Grant-in-Aid for Young Scientists (A)	[ 1,415 ] 1,430	[ 244 ] 254	[ 17.2 ] 17.8	[ 2,037,600 ] 1,993,300 【 597,990 】	[ 8,351 ] 7,848	[ 17,700 ] 16,900
Grant-in-Aid for Young Scientists (B)	[ 17,842 ] 18,322	[ 5,132 ] 5,068	[ 28.8 ] 27.7	[ 7,925,700 ] 7,751,800 【 2,325,540 】	[ 1,544 ] 1,530	[ 3,200 ] 3,500
Grant-in-Aid for Young Scientists (start-up)	[ 3,459 ] 3,749	[ 834 ] 934	[ 24.1 ] 24.9	[ 1,013,100 ] 1,144,530 【 343,359 】	[ 1,215 ] 1,225	[ 1,500 ] 1,500
Encouragement of Scientists	[ 3,150 ] 3,382	[ 782 ] 678	[ 24.8 ] 20.0	[ 500,000 ] 349,965	[ 639 ] 516	[ 1,000 ] 900
Grants-in-aid for Special (pluriannual application)	[ 245 ] 230	[ 68 ] 69	[ 27.8 ] 30.0	[ 110,000 ] 90,000	[ 1,618 ] 1,304	[ 3,000 ] 2,600
Grant-in-Aid for Publication of Scientific Research	[ 1,599 ] 1,330	[ 483 ] 455	[ 30.2 ] 34.2	[ 1,604,340 ] 1,277,100	[ 3,322 ] 2,807	[ 35,800 ] 43,100
Grant-in-Aid for JSPS Fellows	[ 2,541 ] 2,896	[ 2,541 ] 2,896	[ 100.0 ] 100.0	[ 2,412,700 ] 1,815,553	[ 950 ] 627	[ 3,000 ] 3,000
Grant-in-Aid for Creative Scientific Research *2	[ 85 ] -	[ 18 ] -	[ 21.2 ] -	[ 1,526,400 ] - 【 - 】	[ 84,800 ] -	[ 116,500 ] 109,300
<b>Total</b>	[ 99,393 ] 104,210	[ 24,196 ] 23,648	[ 24.3 ] 22.7	[ 68,165,340 ] 63,917,848 【 16,034,769 】	[ 2,817 ] 2,703	[ 35,800 ] 43,100

Notes:

1. The figures in [ ] indicate the previous fiscal year.
2. The figures in 【 】 indicate indirect costs (excluded from the total).
3. \*1 is a research category that has been newly established in FY2008.
4. For \*2 no new applications have been conducted in FY2008.

## (2) Newly approved and continued

As of November 2008

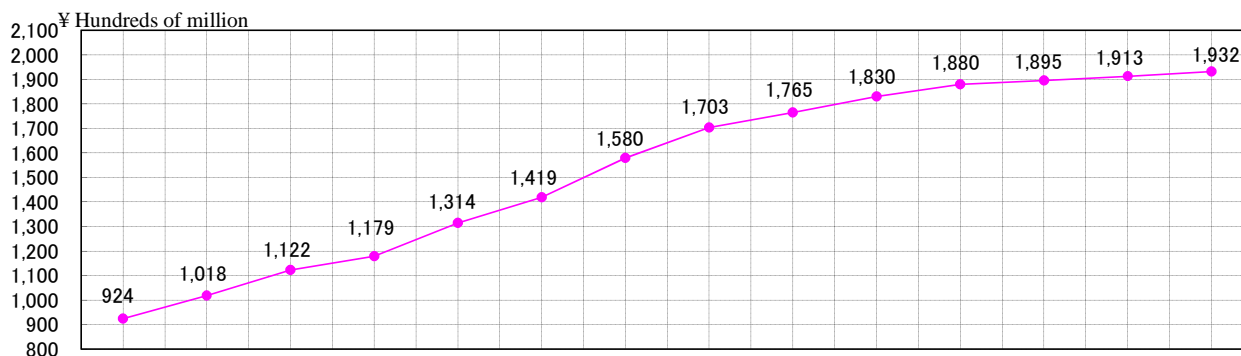
Research category	Number of proposed projects			Amount allocated	Amount allocated per project	
	Applications	Applications approved	Approval rate		Average	Maximum
<b>Grants-in-Aid for Scientific Research</b>	# 〔 123,960 〕 129,296	# 〔 50,042 〕 49,705	% 〔 40.4 〕 38.4	(1,000 yen) 〔 145,876,633 〕 143,609,543 【 33,147,787 〕	(1,000 yen) 〔 2,915 〕 2,889	(1,000 yen) 〔 310,400 〕 306,100
Specially Promoted Research	〔 204 〕 181	〔 85 〕 86	〔 41.7 〕 47.5	〔 6,595,000 〕 7,031,200 【 2,109,360 〕	〔 77,588 〕 81,758	〔 310,400 〕 306,100
Scientific Research on Priority Areas	〔 8,575 〕 7,995	〔 3,895 〕 3,477	〔 45.4 〕 43.5	〔 32,142,100 〕 28,559,000	〔 8,252 〕 8,214	〔 177,500 〕 281,100
Scientific Research on Innovative Areas*1 (Research in a proposed research area)	〔 - 〕 2,153	〔 - 〕 198	〔 - 〕 9.2	〔 - 〕 3,051,300 【 915,390 〕	〔 - 〕 15,411	〔 - 〕 67,600
Scientific Research on Innovative Areas*1 (Research a proposed research project)	〔 - 〕 549	〔 - 〕 81	〔 - 〕 14.8	〔 - 〕 656,900 【 197,070 〕	〔 - 〕 8,110	〔 - 〕 10,000
Scientific Research (S)	〔 698 〕 832	〔 344 〕 363	〔 49.3 〕 43.6	〔 5,813,700 〕 7,351,400 【 2,205,420 〕	〔 16,900 〕 20,252	〔 54,400 〕 96,800
Scientific Research (A)	〔 3,552 〕 3,672	〔 1,731 〕 1,767	〔 48.7 〕 48.1	〔 16,782,300 〕 17,206,700 【 5,162,010 〕	〔 9,695 〕 9,738	〔 31,400 〕 34,300
Scientific Research (B)	〔 16,330 〕 16,709	〔 7,598 〕 7,559	〔 46.5 〕 45.2	〔 34,011,000 〕 32,224,700 【 9,667,410 〕	〔 4,476 〕 4,263	〔 14,200 〕 14,500
Scientific Research (C)	〔 42,363 〕 43,896	〔 17,432 〕 18,068	〔 41.1 〕 41.2	〔 22,424,087 〕 21,301,619 【 6,390,486 〕	〔 1,286 〕 1,179	〔 3,500 〕 3,600
Exploratory Research	〔 17,059 〕 17,684	〔 3,879 〕 3,196	〔 22.7 〕 18.1	〔 5,506,065 〕 4,207,955	〔 1,419 〕 1,317	〔 3,700 〕 3,700
Grant-in-Aid for Young Scientists (S)	〔 1,262 〕 840	〔 35 〕 74	〔 - 〕 8.8	〔 600,000 〕 1,412,100 【 423,630 〕	〔 17,143 〕 19,082	〔 49,200 〕 55,800
Grant-in-Aid for Young Scientists (A)	〔 2,000 〕 1,928	〔 829 〕 752	〔 41.5 〕 39.0	〔 4,830,700 〕 4,087,632 【 1,226,289 〕	〔 5,827 〕 5,436	〔 19,300 〕 16,900
Grant-in-Aid for Young Scientists (B)	〔 24,518 〕 24,899	〔 11,808 〕 11,645	〔 48.2 〕 46.8	〔 14,716,171 〕 14,050,603 【 4,215,181 〕	〔 1,246 〕 1,207	〔 3,200 〕 3,500
Grant-in-Aid for Young Scientists (start-up)	〔 4,249 〕 4,576	〔 1,624 〕 1,761	〔 38.2 〕 38.5	〔 1,955,510 〕 2,118,470 【 635,541 〕	〔 1,204 〕 1,203	〔 1,500 〕 1,500
Encouragement of Scientists	〔 3,150 〕 3,382	〔 782 〕 678	〔 24.8 〕 20.0	〔 500,000 〕 349,965	〔 639 〕 516	〔 1,000 〕 900
Grants-in-aid for Special (pluriannual application)	〔 245 〕 230	〔 68 〕 69	〔 27.8 〕 30.0	〔 110,000 〕 90,000	〔 1,618 〕 1,304	〔 3,000 〕 2,600
Grant-in-Aid for Publication of Scientific Research	〔 1,631 〕 1,350	〔 515 〕 475	〔 31.6 〕 35.2	〔 1,800,000 〕 1,367,900	〔 3,495 〕 2,880	〔 35,800 〕 43,100
Grant-in-Aid for JSPS Fellows	〔 5,636 〕 6,254	〔 5,636 〕 6,254	〔 100.0 〕 100.0	〔 5,315,818 〕 4,932,295	〔 943 〕 789	〔 3,000 〕 3,000
Grant-in-Aid for Creative Scientific Research *2	〔 164 〕 79	〔 97 〕 79	〔 59.1 〕 100.0	〔 7,319,100 〕 5,766,200 【 1,729,860 〕	〔 75,455 〕 72,990	〔 116,500 〕 109,300
<b>Total</b>	〔 131,636 〕 137,209	〔 56,358 〕 56,582	〔 42.8 〕 41.2	〔 160,421,552 〕 155,765,938 【 34,877,647 〕	〔 2,846 〕 2,753	〔 310,400 〕 306,100

Notes:

1. The figures in [ ] indicate the previous fiscal year
2. The figures in 【 】 indicate indirect costs (excluded from the total)
3. \*1 is a research category that has been newly established in FY2008.
4. For \*2 no new applications have been conducted in FY2008.

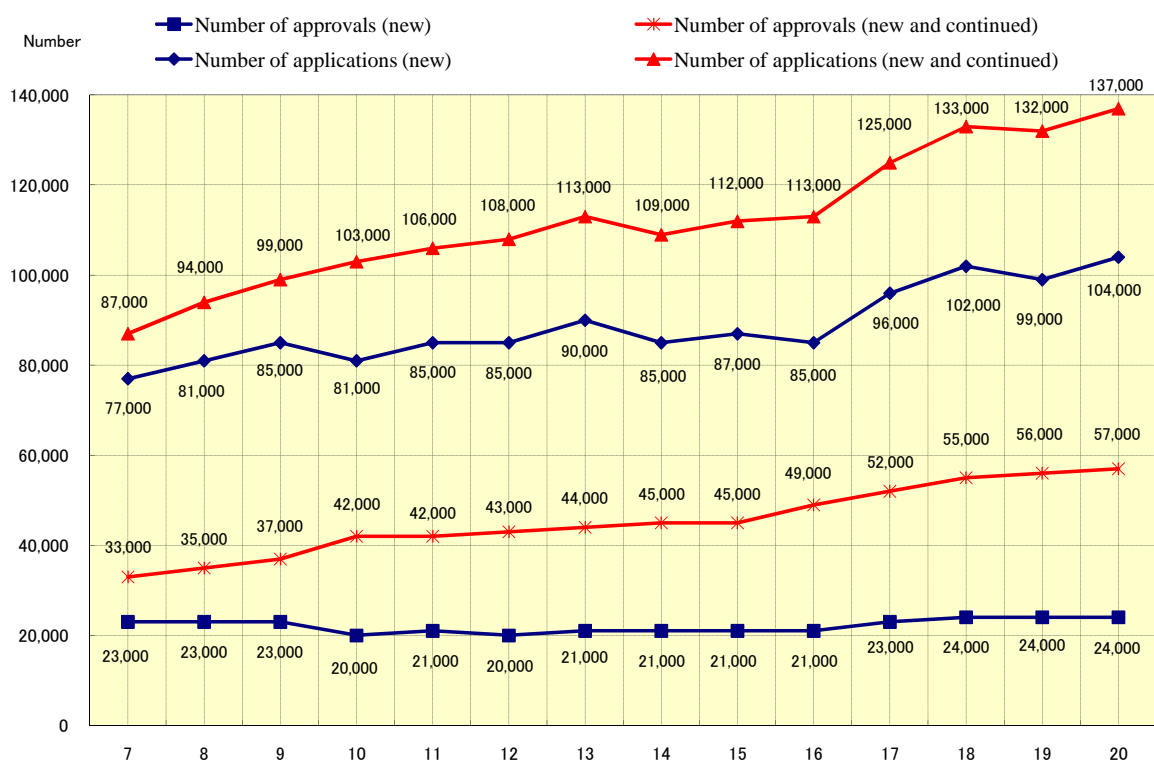
## 2. Changes in budgets and other information

### ○ Changes in budgets and other information



FY	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Budget (¥ hundreds of millions)	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
Year-on-year increase (%)	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

### ○ State of applications and approvals



### ○ State of applications and approvals

FY	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Approval rate (%)	29.4	28.3	27.1	24.8	24.3	23.9	23.1	24.6	23.7	24.8	24.0	23.5	24.3	22.7
Fulfilling rate (%)	74.9	74.6	72.3	71.5	74.7	77.2	78.2	76.1	76.2	76.5	76.4	77.5	75.7	76.9

Note: The table shows the data at the time of the initial allocation in each fiscal year.

### 3. Catalogue of Research Categories

(Funding provided by the Ministry of Education, Culture, Sports, Science and Technology)

Research category	Purposes and description of the research category
<b><u>Grants-in-Aid for Scientific Research</u></b>	
<b><i>Grant-in-Aid for Specially Promoted Research</i></b> *	Highly regarded research in the international arena that is likely to yield highly acclaimed research achievements (There is no limit to the period or budget although, as a guide, a period of three to five years and a budget of around 500 million yen per project may be awarded.)
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 years. In principle, the budget is set at around 20 million to 600 million yen per fiscal year per field.)
Scientific Research on Innovative Areas	<b>(Research in a proposed research area)</b> 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.) <b>(Research a proposed research project)</b> 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.)
Grant-in-Aid for Young Scientists (A) / (B) *	(A) and (B): Research conducted by one researcher who is not more than 39 years old (The period is set at two to four years. Projects are classified in A or B, depending on the budget provided.) (A) from 5 million yen to 30 million yen (B) 5 million yen or less
<b><u>Grant-in-Aid for Special Purposes</u></b>	Funding of urgent and important projects, and trial of multiple applications per year (experimental trial for the funding of research)
<b><u>Grant-in-Aid for Publication of Scientific Research Results</u></b>	
Publication of Scientific Research Results	Funding of disclosure of research results with high academic value by a group of researchers, and of international dissemination

\* JSPS conducts the call for proposals and screens the applications for the research category marked with an asterisk.

(Funding provided by the Japan Society for the Promotion of Science)

Research category	Purposes and description of the research category
<b><u>Grants-in-Aid for Scientific Research</u></b>	
Scientific Research	(S): Creative/pioneering research performed by one researcher or a relatively small group of researchers (over a period of five years, with a budget ranging from 50 million yen to approximately 200 million yen per project) (A), (B) and (C): Creative/pioneering research done by one or more researchers (over a period of three to five years) (Projects are classified in A, B and C, depending on the budget provided.) (A): From 20 million yen to 50 million yen (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 and Start-up)	(S): Research done by one researcher aged 42 or less (Over a period of five years, and with a budget ranging roughly from 30 million yen to 100 million yen per project) (Start-up): Research done by one researcher who has just started employment at a research institution (Over a period of two years, and with a budget of 1.5 million or less per year)
Encouragement of Scientists	Research done by one person who is an employee of an educational/research institution, a company employee or any other person engaging in scientific research (Over a period of one year, and with a budget of 1 million yen or less per project)
<b><u>Grants-in-Aid for Publication of Scientific Research Results</u></b>	
Scientific Periodicals	Funding of scientific journals that academic societies, either individually or within a cooperative framework regularly issue as a contribution to international scientific exchange
Scientific Literature	Funding of scientific literature that individual researchers or groups of researchers issue in order to disclose their scientific research results
Database	Funding of databases that individuals or groups of researchers prepare for the disclosure of research results through scientific data systems and suchlike
<b><u>Grants-in-Aid for JSPS Fellows</u></b>	Funding of research done by JSPS fellows (including foreign researchers) (for a period not exceeding three years)
<b><u>Grant-in-Aid for Creative Scientific Research</u></b>	Among research supported by Grants-in-Aid for Scientific Research and others, focus is placed on the most outstanding research field. Research projects that are especially important in promoting the research field in question are selected to promote highly creative scientific research (recommendation required; for a period of five years)

## 4. Assessment Rules

### **Rules Concerning the Screening and Assessment for Grants-in-Aid for Scientific Research (Scientific Research, etc.) (Extract)**

September 22, 2006

Japan Society for the Promotion of Science

Decision of Committee on Grants-in-Aid for Scientific Research

Partly Amended on February 19, 2007

Partly Amended on May 23, 2007

Partly Amended on October 1, 2007

Partly Amended on December 17, 2007

Partly Amended on September 25, 2008

Partly Amended on January 27, 2009

#### **Chapter 1: General Rules**

##### **(Objective)**

Article 1: The objective of these Rules is to define the requirements for screening and assessment (hereinafter called “Assessment”) related to the Grants-in-Aid for Scientific Research (Scientific Research, etc.) to be conducted by the Committee on Grants-in-Aid for Scientific Research (hereinafter called “the Committee”) (Appendix 1) and to ensure appropriate implementation.

##### **(Definitions of the terminology used)**

Article 2: The terms in these Rules are defined below.

1. Proposed Project: Each of the research projects supported by Grants-in-Aid for Scientific Research (Specially Promoted Research, Scientific Research, Challenging Exploratory Research, Grant-in-Aid for Young Scientists and Encouragement of Scientists), Grants-in-Aid for JSPS Fellows and Grants-in-Aid for Creative Scientific Research)
2. Publication of Research Results: Each of the projects that are supported by Grants-in-Aid for Publication of Scientific Research Results (scientific periodicals, scientific literature and databases)
3. Reviewer/evaluator: Committee Members and Specialized Committee Members who belong to a committee panel, subcommittee or steering subcommittee, as stipulated in Articles 8, 10 and 12 of the committee rules
4. The examined: Collective term for the following under assessment  
 (“Applicant” is a collective term for the following parties subject to screening.)
  - (1) Principal Investigator of a proposed project to be funded by a Grant-in-Aid for Scientific Research (Specially Promoted Research, Scientific Research, Challenging Exploratory Research, Grant-in-Aid for Young Scientists and Encouragement of Scientists)
  - (2) The representative of published research results who receives a Grant-in-Aid for the

Publication of Scientific Research Results (scientific periodicals, scientific literature and databases)

(3) The Principal Investigator of a proposed project supported by a Grant-in-Aid for JSPS Fellows

(4) The Principal Investigator of a proposed project supported by a Grant-in-Aid for Creative Scientific Research

5. Presenter: Person who presents the research topics to be promoted with Grants-in-Aid for Creative Scientific Research
6. Recorder of the views of the examiner: Person to whom the preparation of the document containing the views of the examiner will be commissioned during the screening for Specially Promoted Research.
7. Cooperative reviewer: Academic expert selected by JSPS for who selects each of the projects in the research progress assessment and the ex-post assessment screening for the Grants-in-Aid for Scientific Research (S), Grant-in-Aid for Young Scientists (S) and Creative Scientific Research

### **(Types of Assessment)**

Article 3: The types of assessment are as follows.

1. Screening (preliminary assessment)
2. Interim Research Progress Assessment
3. Ex-post assessment

### **(Timing of the Assessment)**

Article 4: The timing of the assessment is as given below.

1. Assessment: To be done promptly after receipt of the application documents
2. Interim assessment: To be done within the time frame as stipulated in Chapter 3 (for the proposed projects of the type Specially Promoted Research, Scientific Research (S), Grant-in-Aid for Young Scientists (S) or Grant-in-Aid for Creative Scientific Research only)
3. Ex-post assessment: To be done in the year after the final year of a research project (only for proposed projects for grants-in-aid for Specially Promoted Research, Scientific Research (S) or Creative Scientific Research that have not received research progress assessment )

### **(Methods of Assessment)**

Article 5: The assessment is based on considerations of originality, pioneering spirit, scholarly significance and contribution to society/economy in combination with the following items.

1. Assessment based on written documents
2. Assessment based on consultation
3. Assessment based on interviews
4. Assessment based on field surveys

### **(Full Confidentiality)**

Article 6: The assessment processes should not be disclosed.

- 2: Reviewers (evaluators), Recorder of the views of the examiner and, cooperative reviewers (hereinafter, "Evaluators and Other People") should not divulge the following information that they come to know in the course of assessment.
  1. Proposals, research progress reports and research termination reports, and details thereof (unless the examinee agrees to the provision of the information)
  2. Information as to whether a proposed project under assessment is subject to an interview or a field survey (until the examinees are informed)

3. Information that makes it possible to identify evaluators and other people in connection with their statements and assessment (including names, organizations and field of specialization)
  4. Ratings by evaluators and other people and totals
  5. Assessment results (until the examinees are informed)
  6. Names of and other information on evaluators who belong to any of the panels, subcommittees or steering subcommittees (until disclosure)
  7. Other nonpublic information
- 3: Evaluators and other people will not respond to inquiries about assessment results.

**(Observance of Researchers' Ethics)**

Article 7: Evaluators and other people should neither use for their own benefit nor divulge to a third party the unique ideas of another party or unpublished research results that they come to know in the course of assessment, as such behavior violates the researchers' ethics and social ethics.

**(Exclusion of Stakeholders)**

Article 8: The exclusion of stakeholders from the assessment (conflict of interest) is to be handled as follows:

1. Grants-in-Aid for Scientific Research, Grants-in-Aid for JSPS Fellows or Grants-in-Aid for Creative Scientific Research
  - (1) If evaluators and other people are the Principal Investigator, Co-Investigator(s) (*kenkyū-buntansha*) or Co-Investigator(s) (*renkei-kenkyūsha*), or if evaluators and other people present the project for which an application for a Grant-in-Aid for Creative Scientific Research is made, they will not take part in the assessment.
  - (2) If evaluators and other people are deemed to fall into any of the following categories, with respect to the relationship with the Principal Investigator, Co-Investigator(s) (*kenkyū-buntansha*) or Co-Investigator(s) (*renkei-kenkyūsha*), they will not take part in the assessment.
    - 1) Relative or the equivalent of a close personal relationship
    - 2) Relationship of close-knit joint research  
(For example, a close relationship in the implementation of a joint project, writing of a co-authored research paper or a research association with the same purpose)
    - 3) Affiliation within the same research unit (researchers in the same chair)
    - 4) Close relationship between a teacher and a student, or relationship of direct employment
    - 5) Confrontational or competitive relationship in which the screening or the assessment results can be considered to be connected with the direct benefits for evaluators and other people

**【2. (Omitted) 】**

**(Disclosure of Assessment Results)**

Article 9: The disclosure of the screening results is as stipulated in Article 13.

2. **(Omitted)**
3. **(Omitted)**
4. The names of and other information on the reviewers (evaluators) and cooperative reviewers will be made public after the assessment is completed.

## Chapter 2: Screening (Preliminary Assessment)

### (Screening Policy)

Article 10: The screening is conducted based on the “Basic Policy of the Screening for Grants-in-Aid for Scientific Research”, to be performed by the Japan Society for the Promotion of Science (determined by the Council for Science and Technology on November 14, 2003). It is conducted according to the following policy.

#### 1. Common policy for all the research categories

- (1) The screening is strictly conducted in accordance with the purport of the “National Guidelines on the Assessment for Governmental Research and Development”, decided by the Prime Minister in March 2005, and the “Assessment Guidelines Concerning Research and Development by the Ministry of Education, Sports, Culture, Science and Technology”, decided by the Minister of Education, Sports, Culture, Science and Technology in September 2005.
- (2) Research projects and research results to be disclosed that are especially important in the light of trends in scientific research inside and outside Japan should be selected according to the purposes and characteristics of each research category.

The selection of research projects should be done in consideration of the clarity of research purposes, originality and scientific follow-on effects, and the records of achievement and the research results of the researchers should also strictly be evaluated (except in the case of Challenging Exploratory Research). The selected research projects need to be reasonable and expected to bring forth results. Due consideration should be given to the creation and development of new research areas.

Moreover, the results to be disclosed should be selected as long as they benefit the promotion and dissemination of science in Japan and also contribute to international scientific exchange.

- (3) When the project members consist of a Principal Investigator and Co-Investigator(s) (*kenkyū-buntansha*) who are engaged in a research project, research projects which possess an appropriate organizational structure of the project members and where the specific roles of each of the Co-Investigators (*kenkyū-buntansha*) are clear should be selected.
- (4) For the selected projects and results to be disclosed, a necessary amount corresponding to the content of the research or project should be allocated, provided that the amount is in units of at least 100,000 yen, in principle.
- (5) Strict screening will be conducted whereby the past results of research supported by the Grants-in-Aid for Scientific Research are appropriately evaluated and an application will be handled in a manner equivalent to other new applications if it is for Specially Promoted Research or Scientific Research with a research period of four years or more and if the Principal Investigator intends to reconstruct his/her research plan in light of the progress of the research (hereinafter, “Project for the Fiscal Year before the Final Fiscal Year of a Research Plan”).

- (6) Research projects cannot be transferred to any other research category (screening division), or any other field of specialization.
- (7) Due consideration should be given to the protection of human rights and the protection of the benefits if a proposed research project requires the consent or the cooperation of the other party, social consensus or involves questionnaire-based surveys.
- (8) Due consideration should be given to compliance with the laws and regulations if a proposed project involves analytical research on human genes (human genome/gene analytical research, research handling a specified embryo, research including the setup and use of human ES cells, gene recombination experiments, clinical research on gene therapy, and research including epidemiological research).

## **2. Policy for each research category (screening division)**

### **(1) (Omitted)**

### **(2) Grants-in-Aid for Scientific Research (Scientific Research, Challenging Exploratory Research and Grant-in-Aid for Young Scientists)**

#### **① Common items**

##### **A. Methods of allocation to each specialization**

For Scientific Research, Challenging Exploratory Research and Grant-in-Aid for Young Scientists, the amounts should be made consistent among the areas of humanities/social science and natural science. Allocation limits should be set in advance for each field of specialization according to the actual conditions of scientific research. For new research projects, the amount allocated to each field of specialization is calculated in accordance with “Appendix 2 Allocation system of Grants-in-Aid for Scientific Research (Funding for Scientific Research)” (hereinafter “Allocation System”) based on planned allocation amounts indicated separately by the MEXT.

##### **B. Adjustment of the allocated amount**

In addition to the allocation methods mentioned in A. above, the amounts are adjusted in the second stage of the screening stage, when necessary, according to the following:

- a. Adjustment for the promotion of research on humanities/social sciences
- b. Adjustment based on considerations for promoting private universities and technical colleges and fulfillment of research funding for researchers belonging to private universities and technical colleges
- c. Adjustment the necessity of which is recognized

##### **C. Determination of the amounts planned to be allocated**

The planned amounts to be allocated for candidate projects are basically decided according to the sufficiency rates defined for each research category. If there is any obvious problem, reviewers in the second stage of the screening appraise the amounts while taking into account the section “Validity of the Budget” in the screening results, that is one of the assessment items in the first stage of the screening.

##### **D. Handling of continued research projects where there is a planned significant change in the research plan**

The content of the research plan that is planned to be changed is subject to a full assessment. The appropriateness of an increase of the budget is decided, taking into consideration the influence on funding for new applied projects.

**E. Handling of informally agreed amounts for the following fiscal year onward**

For the allocation of amounts to be informally agreed in the following fiscal year onward, consideration should be given to the satisfactory implementation of the research in the selected research project. In addition, it should be borne in mind that an increase in the informally agreed amount will significantly affect the screening of new research projects in the following fiscal year onward.

**F. Handling of the results of the research progress assessment**

The results of the research progress assessment will be utilized for the screening of research projects for which the Principal Investigator of the research project that received results of the research progress assessment applied consecutively in the research period of research projects for which an application was made in the fiscal year before the final fiscal year and research projects that received research progress assessment. In the first stage of the screening (screening of the written documents) they will be utilized during the screening of the connection between the research plan and the research project that received results of the research progress assessment, and in the second stage of the screening (consultation-based screening) they will be used as reference material especially during the discussion on adoption or rejection.

Moreover, the assessment standards of the research progress assessment have 4 grades (namely A+, A, B and C). It should be borne in mind that, among these grades, “A” means “the project is progressing towards its original targeted goal and achievements in line with the anticipated expectations” and that the highest grade is “A+” (meaning “there is research progress that exceeds the original targeted goal and better-than-expected achievements are anticipated”).

**G. Handling of the state of funding obtained and state of applications for funding for other research projects**

- a. The section “State of Funding Obtained, State of Applications for Funding for Other Research Projects” should be referred to when it is judged in the second stage of the screening (by consultation) whether a research project can be appropriately implemented without unreasonable duplication or excessive concentration of research funding.
- b. For candidate research projects, the section “States of Funding Obtained and State of Applications for Other Research Projects” in the proposal for grant-in-aid should be referred to so as to check against unreasonable duplication or the excessive concentration of research funding.
- c. An application will be rejected due to unreasonable duplication or the excessive concentration of research funding, provided the entire subcommittee reaches an agreement.

**H. Handling of the “effort”**

Efforts (the ratio of the amount of time required for the implementation of the research project to the entire amount of time that the Principal Investigator and Co-Investigator (*kenkyū-buntansha*) work) should be referred to when it is judged in the second stage of the screening (by consultation) whether a project is fully feasible.

It should be noted, however, that the effort can be changed after the approval for an application, since the effort is the estimate that the Principal Investigator or

Co-Investigator (*kenkyū-buntansha*) indicates while considering the project is feasible when preparing the proposal for grant-in-aid.

### **I. Handling of the document stating the reason of completion of Grant-Aided project**

The content of the document stating the reason of completion of Grant-Aided project, that is submitted when the applicant aims at further research developments, by changing the research category, because the research progressed more than expected and the original targeted goals of the continued research project have already been accomplished, is verified and its appropriateness is judged within the subcommittee that conducts the second stage of the screening (consultation-based screening) of research projects for which a new application has been made.

If it is judged within the subcommittee in question that the content is inappropriate, the research project for which a new application has been made will not be submitted to screening.

### **㊦ Specific Parts**

**【(a) – (e) (omitted)】**

#### **(f) Grant-in-Aid for Young Scientists (Start-up)**

- a. Research that will independently conducted by a researcher and research projects that have an original idea that are expected to result in a major development in the future will be selected.
- b. The research period of the research project is 2 years.
- c. The following research projects under application are taken into consideration during the consultation-based screening.
  - a) Research projects for which an application has been made by applicants who received an informal agreement for “Grant-in-Aid for JSPS Fellows” in the initial fiscal year of the research project under application.
  - b) Research projects for which an application has been made by applicants who have been employed from a different research institution.
  - c) Research projects for which an application is currently being made and for which an improvement or progress can be expected based on the current research environment of the researcher(s) involved in it.

**【(3) – (5) (omitted)】**

### **(Screening Implementation System)**

Article 11: The screening conducted within the committee shall be conducted within the sections shown below.

<b>Name of Sections</b>	<b>Matters for Screening</b>
Steering Subcommittee and 3 Subcommittees under Screening and Assessment Section 1	• Specially Promoted Research projects
Steering Subcommittee and 12	• Scientific Research (S) projects

Subcommittees under Screening and Assessment Section 2	<ul style="list-style-type: none"> <li>• Grant-in-Aid for Young Scientists (S) projects</li> </ul>
Steering Subcommittee and 15 Subcommittees under Screening Section 1	<ul style="list-style-type: none"> <li>• Scientific Research (A) (screening division “General”) projects</li> <li>• Scientific Research (B) (screening division “General”) projects</li> <li>• Challenging Exploratory Research projects</li> </ul>
3 Subcommittees under Screening Section 1	<ul style="list-style-type: none"> <li>• Scientific Research (A) (screening division “Overseas Academic Research”) projects</li> <li>• Scientific Research (B) (screening division “Overseas Academic Research”) projects</li> </ul>
Steering Subcommittee and 15 Subcommittees under Screening Section 2	<ul style="list-style-type: none"> <li>• Scientific Research (C) (screening division “General”) projects</li> <li>• Grant-in-Aid for Young Scientists (A) projects</li> <li>• Grant-in-Aid for Young Scientists (B) projects</li> </ul>
Steering Subcommittee under Screening Section 2	<ul style="list-style-type: none"> <li>• Grant-in-Aid for JSPS Fellows projects</li> </ul>
Steering Subcommittee and 7 Subcommittees under Screening Section 3	<ul style="list-style-type: none"> <li>• Grant-in-Aid for Young Scientists (Start-up) projects</li> </ul>
Steering Subcommittee and 3 Subcommittees under Encouragement of Scientists Section	<ul style="list-style-type: none"> <li>• Encouragement of Scientists projects</li> </ul>
Steering Subcommittee and 4 Subcommittees under Results Publication Section	<ul style="list-style-type: none"> <li>• Publication of results in scientific periodicals</li> <li>• Publication of results in scientific literature</li> <li>• Publication of results in databases</li> </ul>

**(Screening Method)**

Article 12: The screening method is as follows.

**【1 – 4 (Omitted) 】**

**5. Screening Section 3**

**(Process until a decision on research project adoption is made)**

- a) Each subcommittee conducts the screening of the written documents in advance and based on those results, make decisions for or against adopting research projects by consultation.
- b) Examiners who belong to each subcommittee conduct screening in advance based on the proposals for grant-in-aid in accordance with the assessment standards indicated in Appendix 8.

**(Process up to where each subcommittee makes a decision on whether to adopt a research project)**

- a) In order to facilitate the screening process, each subcommittee sets up screening groups.
- b) Each screening group selects candidate research projects by consultation, based on the amount of projects scheduled to be adopted. The amount of projects scheduled to be adopted is calculated based on the “allocation limit” and the “average amount under application for the fiscal year in question”, which are calculated for each research field (each subcommittee) based on the allocation system.
- c) Each subcommittee, through subcommittee-wide consultation and by undertaking necessary adjustments, decides which of the candidate research projects selected by the

screening groups to adopt.

**(Adjustment of the amount of the allocation to each research project)**

- a) The amount of the allocation to each research project is the amount that is calculated by adjusting the average sufficiency rate of the whole of all the research projects that are adopted by each subcommittee. The abovementioned adjustment is conducted in order to fit the total amount of the allocations within the “allocation limit”, based on the results of the screening on the amount of the allocation.
- b) If it is judged that the average sufficiency rate of the whole of all the research projects that are adopted by a particular subcommittee is remarkably lower compared to the average sufficiency rate of the whole of all the research projects that are adopted by the other subcommittees, as a result of the adjustment mentioned in the abovementioned point a), the steering subcommittee conducts an adjustment, based on the “allocation adjustment limit”. The aim of this adjustment is to avoid remarkable imbalances in the average sufficiency rate of the whole of all the research projects that are adopted by each subcommittee.

**【6 – 7 (Omitted) 】**

**(Disclosure of the results of the screening)**

Article 13

**1. (Omitted)**

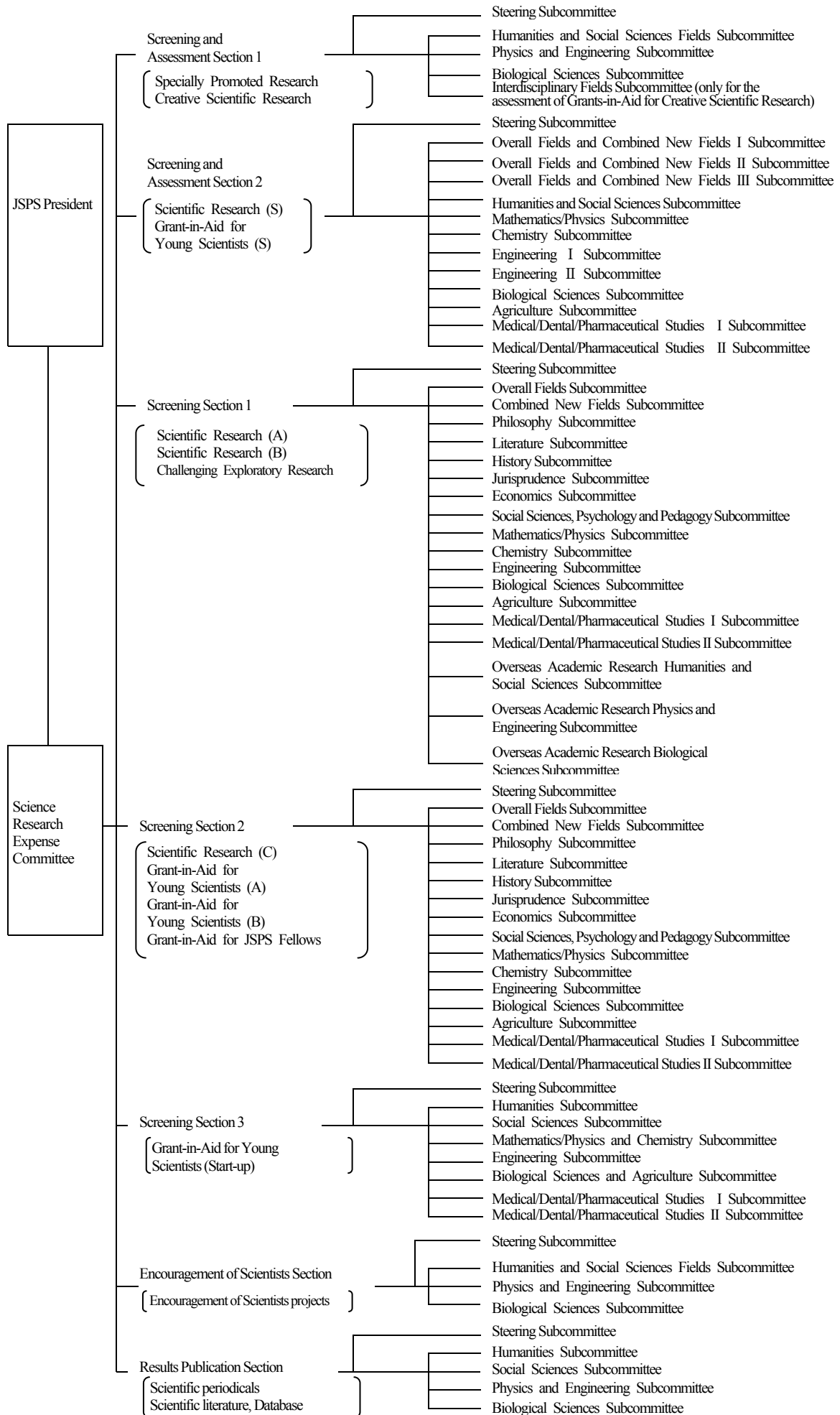
**2. Scientific Research, Challenging Exploratory Research and Grant-in-Aid for Young Scientists**

Principal Investigators whose research projects have not been adopted and who have requested, at the time of application, the disclosure of the results of the first stage of the screening may be informed about the approximate ranking of the relevant item (field) and the rough score (average points) awarded by examiners with regard to each element for assessment.

**【3 – 4 (Omitted) 】**

**【Chapters 3 and 4 are omitted 】**

# Organization Chart of the Scientific Research Grant Committee



**Allocation System of Grants-in-Aid for Scientific Research**  
**(Funding for Scientific Research)**  
**(Excluding “Encouragement of Scientists”)**

- Allocation limit of the research expenses per field of specialization

$$(B - A) \times \frac{a + b}{2}$$

**(Note) Elements:**

- A = Informally agreed amount for this fiscal year’s grants for continued research projects for the relevant research category (screening division)
- B = Scheduled amount for this fiscal year’s grants for the relevant research category (screening division)
- a = The D/C ratio. C is the budget for this year’s new applications for the relevant research category (screening division) (including applications for an increase in the grants for continued research projects). D is the budget for this year’s new applications for the relevant field of specialization (including applications for an increase in the grants for continued research projects).
- b = The F/E ratio. E is the number of this year’s new research project applications for the relevant research category (screening division). F is the number of this year’s new research project applications for the relevant field of specialization.

## **Assessment Standards in the Screening of Written Documents for Grant-in-Aid for Young Scientists (Start-up)**

Grants-in-Aid for Scientific Research aim to facilitate significant development of all kinds of basic and applied academic research, irrespective of differences in research fields. When conducting the screening for the allocation, the examiners are required to appropriately and fairly judge whether each of the research project applications would significantly contribute to the abovementioned aim.

In the screening of the written documents an absolute assessment of each factor concerning the research content, the research plans and other elements mentioned below is conducted for each research project, before an overall grade based on the relative assessment is chosen from the five given levels.

In the consultation-based screening, based on the overall grades and T score (calculated by correcting the unevenness of grades among the different examiners in accordance with the average points and the standard deviation) assigned in the screening of the written documents, the examiners appropriately consider each of the assessment factors, the number of applications accepted, and other factors, before deciding on research project adoption and the amounts of the research grants to be allocated.

Research projects which obtained a high overall grade are not necessarily given a high score for all factors. For example, research projects that are not very unique or innovative and yet can be expected to have a significant impact in academic circles and society may obtain a high overall grade.

Taking into consideration the characteristics of the research fields and other factors of diversity in academic research, a broad view to identify important projects should be kept and an appropriate evaluation so that the selected academic projects can be facilitated should be made.

Moreover, applications for research projects that fall under a conflict of interest (specified in Article 8-1) should not be examined.

The research category Grant-in-Aid for Young Scientists (Start-up) aims at carrying out support for research that is in its start-up stage (e.g. support for improvement of the environment in the initial stage of the research), in order to enable researchers to devote themselves to research independently from an early stage. Therefore, applications should be assessed asking the question whether they can contribute to the promotion of independent researchers.

### **i. Assessment Standards**

**(Factors for assessment) The parts of the proposal for grant-in-aid that should be referred to are indicated in parentheses**

**(1) Academic Importance and Validity of the Research Project (the sections “Budget for Proposed Research Project”, “Research Objectives”, etc.)**

- The research project is academically important and should be implemented.
- The framework of the research and the research objectives are specified and clarified.
- The scientific importance of the research project is worth the scale of the costs for which an application is made.

Grades	Assessment Standards
4	Excellent
3	Good
2	Poor
1	Bad

**(2) Validity of the Research Plan and Methods (the sections “Research Plan and Methods”, “Validity/Necessity of the Budget for the Proposed Research Project”, etc.)**

- To ensure that the research objectives are achieved, the research plan is carefully discussed and verified.
- Consideration to problematic points that can be anticipated and countermeasures against problems that might be incurred during the implementation of the research plan are discussed.
- The length of the research period and the allocation of the budget are appropriate.
- The research project does not fall into one of the following types of research plans, which are not included within the scope of the call for proposals.
  - ① A research plan that is merely intended to purchase ready-made research equipment
  - ② A research plan that is intended to manufacture large-size research equipment that should be funded by other budgets
  - ③ A research plan that directly aims at developing and selling goods and services (including market trend surveys concerning the development and sale of goods and services)
  - ④ Funded research conducted as commercial business

Grades	Assessment Standards
4	Excellent
3	Good
2	Poor
1	Bad

**(3) Uniqueness and Innovativeness of the Research Project (the sections “Research Objectives” and “Research Plan and Methods”)**

- The uniqueness and the innovativeness of the objects of the research, the research methods and the research results it will bring forth are recognizable.

Grades	Assessment Standards
4	Excellent
3	Good
2	Poor
1	Bad

**(4) Impact and Universality of the Research Project (the sections “Research Objectives” and “Research Plan and Methods”)**

- Academic impact, such as a significant contribution to the development of the relevant or related research field(s), and the exploration of new academic fields, can be expected.
- Significant impact and contribution to society can be expected with regard to technology, industry, culture and many other areas.

Grades	Assessment Standards
4	Excellent
3	Good
2	Poor
1	Bad

**(5) Ability to Implement the Research and Appropriateness of the Research Environment (the sections “Recent Research Activities”, “Brief Background Description of Research of the Applicant”, “現在の研究環境”, etc.)**

- As well as the state of the applicant’s recent research activities, the applicant can be judged to be highly capable of implementing the research plan.
- The research environment, such as research facilities, equipment, research material and other necessities, necessary for the implementation of the research plan is available.

Grades	Assessment Standards
4	Excellent
3	Good
2	Poor
1	Bad

**(Overall Grading)**

Referring to the assessment results regarding the abovementioned factors for assessment, taking into consideration the adequacy as a Grant-in-Aid for Young Scientists (Start-up), and based on the standards mentioned below, an overall grading should be conducted, by grading each research project into five levels.

While the grading by the examiner should be based on absolute assessment, the standard percentages indicated in the right-hand column of the table below should be taken into consideration when grading research projects for each research. In this way, the examiner should avoid giving the same grades to too many applicants. (This does not apply if the number of research projects which the examiner has to assess is small.)

Moreover, for research projects that fall under a conflict of interest, the reason for the conflict should be entered in the section “Views of the Examiner”.

Grades	Assessment Standards	Standard Percentage
5	Excellent research project that deserves the highest priority	10%
4	Good research project that should be adopted by all means	20%
3	Contains some good elements of research and may be adopted	40%
2	Insufficient in some of its details and should not be adopted	20%
1	There are problems in the contents of the research. Does not deserve to be adopted	10%
—	Impossible to judge because it involves a conflict of interest	—

**(Filling in the Section “Views of the Examiner”)**

Besides assigning overall grades, the examiner should state his/her views on the research projects by filling in the section “Views of the Examiner” and by focusing on the good and bad points of the research projects. These views of the examiner are very important in order to ensure that the results of the screening of the written documents are accurately reflected in consultation-based screening.

(Reference) The adoption rate for newly adopted research projects for FY2008  
 Grant-in-Aid for Young Scientists (Start-up) 24.9%

**ii. Other Items to be Assessed**

Besides the overall grading based on the abovementioned assessment standards, the appropriateness of the relevant research project and the validity of the budget should be considered as described below, when necessary.

**(1) Distinctiveness of the Proposed Project for which Currently an Application is Being Made (section “Distinctiveness of the Proposed Project for which Currently an Application is Being Made in Case the Applicant is Participating in Other Projects, etc.”)**

This research category aims at the promotion of researchers who are able to conduct research independently. Therefore, if the applicant is participating in other research projects (or is planning to participate), if the research plan for which he or she is currently applying has a connection with these other research projects, and, if it is identical or substantively similar to conducting the research plan for which he or she is currently applying as a part of these research projects, then it cannot be said that the research will contribute to the “independence of the researcher”, which is a purpose of this research category.

On the other hand, if the research plan for which the applicant is currently applying can be conducted independently, and from a distinct viewpoint, although it has a connection with these other research projects he or she is participating in, then it does not conflict with the purposes of this research category.

Therefore, if the applicant is participating in other research projects and there is a connection with the research plan for which he or she is currently applying, then the examiner should consider whether it is clear or not that the research currently under application can be conducted independently, from a distinct viewpoint, and assign either of the grades shown below.

Moreover, in case “x” is assigned, the reason for reaching this judgment should be specifically stated in the section “Comment”.

Grades	Assessment Standards
(Blank)	No problem
×	As for the connection with other research projects the applicant is participating in, there are questionable points on whether the research currently under application can be conducted independently, and from a distinct viewpoint.

**(2) Appropriateness of the Research Project that Requires the Protection of Human Rights and the Observance of Laws and Ordinances (the section “Protection of Human Rights and Observance of Laws and Ordinances”)**

The examiner should consider the following points and assign either of the grades indicated below to research projects that require the protection of human rights and the observance of laws and ordinances during the implementation of their research plan.

Moreover, if “x” is assigned, the reason for reaching this judgment should be written in the section “Comments”.

Grades	Assessment Standards
(Blank)	No problem
×	Procedures and actions concerning the observance of the laws and ordinances contain some questionable points

- Procedures and actions necessary for research plans that require the other party’s consent or cooperation or the consensus of society, research plans that require care and consideration in the handling of personal information, or research plans that require that legal procedures are performed.
- Procedures and actions necessary, based on laws and procedures, for research projects involving the analysis of human genes (including the analysis of human genome and genes, research involving the handling of specific embryos, research involving the

establishment and use of human ES cells, gene recombination experiments, clinical research on gene therapy, and epidemiological research) are observed.

**(2) Validity of the Budget (the section “Validity/Necessity of the Budget”, etc.)**

With the aim of ensuring the effective and efficient allocation of grants, the following points related to the validity and necessity of the budget should be considered. If the examiner has a clear judgment, he/she should grade the validity of the budget in accordance with the assessment standards described below.

Moreover, in case “x” is assigned, the reason for reaching that judgment should be stated in the section “Comments”.

- The content of the budget is appropriate and can be used effectively.
- A budget for the purchase of equipment that is really necessary for the implementation of the research plan has been allocated.
- If more than 90% of the budget is for the purchase of equipment, travel expenses or personnel, it should be made sure that the use of the budget can effectively facilitate the implementation of the research plan.

Grades	Assessment Standards (When assessing research projects, the examiner should refer to the section “State of the Allocation” outside this section.)
(Blank)	The research project can be implemented with an average sufficiency rate.
○	The sufficiency rate of the research project should be greater than that of other projects.
△	Greater cost reduction than that of other research projects is possible or should be achieved. (The sufficiency rate should be lowered.)
×	The research plan and the budget are disproportionate.

(Reference) The state of the allocation for FY2008 (the average sufficiency rate for newly adopted research projects)

Grant-in-Aid for Young Scientists (Start-up)                      88.8%

**iii. Other Notes**

**(1) On the Handling of the Section “State of Applications for Funding, State of Funding Obtained and Effort”**

The state of funding obtained, the state of applications for funding for other research projects is the section to which the examiner should refer during the consultation-based screening when judging whether the project can be satisfactorily completed without causing unreasonable duplication or excessive concentration of research funds. Therefore, the examiner should not focus too much on this point during the screening of the written

documents and, when necessary, state his/her views in the section “Comments”.

**(2) On the Handling of the Section “Effort”**

The “effort” here is the amount of time required for the implementation of the relevant research project as a ratio of the total amount of working hours of the Principal Investigator or the Co-Investigator (*kenkyū-buntansha*). During the consultation-based screening, the examiner should refer to “effort” when judging whether the project can be satisfactorily completed. Therefore, the examiner should not focus too much on this point during the screening of the written documents and, when necessary, state his/her views in the section “Comments”.

## 5. Spending Rules: Supplementary Conditions for FY2008

<Scientific Research, Exploratory Research, Grant-in-Aid for Young Scientists (S), Grant-in-Aid for Young Scientists (Start-up) or Grant-in-Aid for Creative Scientific Research>

The following are supplementary conditions that a member of a research project receiving a grant (Principal Investigator and Co-Investigator (*kenkyū-buntansha*) should follow when working on projects for which a Grant-in-Aid for Scientific Research is received (Scientific Research, Exploratory Research, Grant-in-Aid for Young Scientists (S), Grant-in-Aid for Young Scientists (Start-up) or a Grant-in-Aid for Creative Scientific Research) from the Japan Society for the Promotion of Science (hereinafter “JSPS”) in compliance with the provisions of the Law Concerning the Optimization of Budgets for Subsidies (No. 179, 1955, hereinafter “the Optimization Law”) and JSPS Grants-in-Aid for Scientific Research (Scientific Research, etc.) Management Procedures (Rule No. 17, 2003, hereinafter “Management Procedures”).

### 1. General rules

#### Observance of laws and ordinances

1-1 In conducting a project that is funded by a grant, the Principal Investigator and Co-Investigators (*kenkyū-buntansha*) should comply with the provisions of all related laws and ordinances, including the Optimization Law, the ordinance to enforce the Optimization Law (Government Ordinance No. 255, 1955), the rules for handling Grants-in-Aid for Scientific Research (the Ministry of Education Notification No. 110, 1965, hereinafter “Handling Rules”), Management Procedures and these supplementary conditions.

#### Responsibilities of the member of a project funded by a grant

1-2 The Principal Investigator and Co-Investigators (*kenkyū-buntansha*) should always ensure that the grant is paid with the money of the taxpayers and should remain diligent when implementing the funded project in accordance with the objective for which the project is funded.

#### Distribution of the copy of the document of supplementary conditions

1-3 The Principal Investigator should distribute copies of the supplementary conditions document to all of the Co-Investigators (*kenkyū-buntansha*) concerned. As a member of a project receiving a grant, the Co-Investigators (*kenkyū-buntansha*) are also accountable for their requirement to follow the supplementary conditions in compliance with Article 11 of the Optimization Law.

#### The management of grants by the research institution

1-4 The Principal Investigator and the Co-Investigators (*kenkyū-buntansha*) should ensure that their research institutions (hereinafter “the institutions”) specified in Article 2 of the Handling Rules keep the grant in accordance with the JSPS rules on what the institutions need to do concerning the use of Grants-in-Aid for Scientific Research. The Principal Investigator and the Co-Investigators (*kenkyū-buntansha*) should also work with the institution in conducting the procedures specified in the supplementary conditions. This also applies where the Principal Investigator and Co-Investigators (*kenkyū-buntansha*) have moved to a different institution.

## 2. Use of direct costs

### Fair and efficient use of direct costs

2-1 The Principal Investigator and the Co-Investigators (*kenkyū-buntansha*) should ensure the fair and efficient use of direct costs, namely the costs necessary to implement a funded research project and for the research results to be summarized. The Principal Investigator and the Co-Investigators (*kenkyū-buntansha*) are strictly warned against using such costs for other purposes or violating the supplementary conditions.

### Items of direct costs

2-2 The following items of expenses fall under direct costs.

Commodity costs (costs for equipment): for the purchase of commodities (equipment)

Travel expenses: transportation, accommodation and daily allowances for the Principal Investigator, Co-Investigators (*kenkyū-buntansha*), Co-Investigators (*renkei-kenkyūsha*) and other participants engaged in overseas or domestic travel to collect materials, to conduct surveys, to attend meetings, to present the research results, and other purposes

Personnel: remuneration, wages and salaries payable to persons participating in the research for document creation/management, experiments, translation, proof-reading, provision of specialized knowledge, distribution and collection of questionnaires or the collection of research materials; and money payable to temporary workers. When signing an employment contract, the relevant institution shall be party to the contract.

Miscellaneous (other costs): not categorized into any of the abovementioned cost items that are intended for implementing the research. For example, other costs may be incurred through printing, creating reproductions, developing and printing photos, communication (such as stamps and telephone bills), transportation, leases for research venues (only if none of the institution's facilities are adequate for conducting the funded project), charges for meeting rooms and meals (excluding alcoholic beverages) served at meetings, rental (of computers, automobiles, experimental equipment and devices), repairs of equipment, transportation costs other than travel expenses, presentation of research results (contribution to academic journals, website creation and preparation of pamphlets to advertise the research results)

### Allocation of a share of the funding

2-3 If there is/are Co-Investigator(s) (*kenkyū-buntansha*) who belong(s) to another institution than the Principal Investigator, the Principal Investigator should apportion the direct costs and 30% of the indirect costs the Co-Investigator(s) (*kenkyū-buntansha*) in question spend(s), to the Co-Investigator(s) (*kenkyū-buntansha*) in question, after receiving the funding. Moreover, in principle, the amount of the direct costs that is mentioned in the grant application form should be apportioned, but, as necessary, the amount that is apportioned can be modified. Moreover, for the indirect costs it is allowable to handle it in a different way, in accordance to the arrangements of the institution to which Principal Investigator and a Co-Investigator(s) (*kenkyū-buntansha*) belong.

2-4 The Principal Investigator and the Co-Investigator(s) (*kenkyū-buntansha*) should use the

direct costs in accordance with the amount of each expense item that is mentioned in the grant application form. However, the Principal Investigator can change the amount of each expense item in the details of the research budget within the scope of less than 50% of the direct costs received, without obtaining the approval of JSPS, in accordance with clause 3, article 10 of the Management Procedures. (If 50% of the total amount of the direct costs is less than 3 million yen, up to 3 million yen.)

#### **Start of research and contract**

2-5 The research of new projects that are adopted start immediately after receiving the notification of the informal decision that the grant will be funded. The research of projects that continue from the previous fiscal year start on April 1, and the necessary contracts are signed on April 1. The necessary costs should be paid after the receipt of direct costs. Alternatively, they should be paid for by the institution and settled after the direct costs are received.

#### **Use of direct costs within the fiscal year**

2-6 It is not allowed to use direct costs beyond the fiscal year in which the funded project is to be implemented, even if the research period of the project continues for two or more years, except where the provision in 2-7 below applies.

#### **Use of direct costs in the following fiscal year**

2-7 There may be cases where the funded project is expected not to be able to be completed within the planned deadline due to the difficulties in determining the methods for prior surveys and research, the conditions of the research plan, weather events, a shortage of material or other unavoidable reasons that were not expected at the time of the decision to give the grant. If this is deemed likely, the Principal Investigator may wish to have the project period extended and to use all or part of the grant in the following fiscal year. In this case it is necessary to fill out Form C-1, "Grounds for calculating the approved amount for the carryover," Form C-2, "Reason for carrying over the grant" and Form C-3 "Project schedule" and submit it to the Minister of Education, Culture, Sports, Science and Technology and to complete the necessary procedures by March 2, 2009.

#### **Restriction on use of direct costs**

2-8 Direct costs should not be used for any of the following objects or purposes.

- ① Costs for buildings and facilities, except minor installations that are necessary in order to install items that are purchased using direct costs
- ② Costs for the purchase of equipment that the institution is supposed to usually have in stock
- ③ Costs to handle problems resulting from accidents and disasters that occurred during the implementation of the funded project
- ④ Other kinds of costs that should be appropriated from indirect costs

#### **Restriction on the combined use of costs**

2-9 Direct costs should not be combined with other costs, unless the following applies:

- ① In case of a business trip (only one trip) that concerns business related to the funded project and other business, the direct costs are used, after the clarifying the separation of the direct costs and the other costs.
- ② Direct costs are used to purchase consumables (necessary for fulfilling the funded project) for an independent commodity that is purchased at the same time.
- ③ In case direct costs are used for the funded project, by adding other costs (such as costs for commissioned projects, grants that are ordinary expenses of private universities and other institutions, other grants-in-aid for scientific research, or indirect costs; excluding costs that have restrictions on the purposes for which they should be used) to the direct costs. (Moreover, in case they are used as purchase costs for equipment, furniture or books

(hereinafter called “equipment”), the handling of this equipment in question should be decided in advance, in case, for example, the researcher changes the research institution to which he or she belongs, in order not to hinder the implementation of the funded research.)

#### **Deadline for delivery and payment**

2-10 The delivery of goods and offers of services concerning a funded project should be completed by March 31 of the fiscal year in which the funded project is to be implemented. Payments concerning these deliveries and services should be made by the deadline for submitting the relevant report.

### **3 Procedures necessary for changes to a funded project (rules for revising information entered in the grant application form)**

#### **Items that cannot be changed**

3-1 Information entered for the sections “title of the proposed project” and information entered in the section “Research Objectives” cannot be changed.

#### **Changes to the breakdown of the use of direct costs**

3-2 To change the amounts for direct cost items up to 50% or more of the total amount of direct costs granted (if the total amount of the direct costs is three million yen or less, up to three million yen), the Principal Investigator should file an application by filling in and submitting Form C-4-1, “Application form for approval for a change to the breakdown of direct costs used” and obtain the approval of JSPS.

#### **Discontinuation of a funded project**

3-3 To discontinue a funded project, the Principal Investigator should file an application by filling in and submitting Form C-5-1, “Application form for the discontinuation of a funded project” and obtain the approval of JSPS. In addition, the Principal Investigator should refund the unused part of the grant and, within 30 days of the discontinuation, file reports to JSPS on the progress of the funded project until it is discontinued. The reports should be written on Form C-6, “Report on results (Report of settlement of accounts)” and Form C-7-1, “Report on results (Report on the research results)”. The section “Summary of the research results” in the abovementioned report will be displayed on the website of the National Institute of Informatics.

#### **Change of affiliation (change of research institution)**

3-4 If the Principal Investigator changes his/her affiliation (research institution), he or she should report it to JSPS by filling in and submitting Form C-10-1, “Notice of change of Principal Investigator’s research institution.”

#### **Disqualification of the Principal Investigator**

3-5 If a Principal Investigator loses his/her eligibility to apply for grants, he or she should terminate his/her funded project, in accordance with the procedures specified in 3-3 above.

3-6 If a Principal Investigator who lost his/her eligibility to apply for grants wants his/her funded project to continue after a change of Principal Investigator (only applicable if he/she is replaced by one of the new Co-Investigators (*kenkyū-buntansha*) for the relevant funded project), the disqualified Principal Investigator should obtain the consent of the Co-Investigator (*kenkyū-buntansha*) who replaces him/her. Thereafter, it is necessary to submit Form C-9, “Application form for approval for a change in the project members”, and

obtain the approval of JSPS.

3-7 Under certain circumstances, the Principal Investigator may have to resign and a Co-Investigator (*kenkyū-buntansha*) may, based on a consensus, replace the resigning Principal Investigator. (This possibility is limited to cases where the candidate for replacement is a Co-Investigator (*kenkyū-buntansha*) in the funded project.) In this case, the candidate to become the new Principal Investigator should file an application by filling in and submitting Form C-9, “Application form for approval to a change in the project members”, and obtain the approval of JSPS.

#### **Replacement of the Principal Investigator**

3-8 Reasons other than loss of eligibility to apply for grants may result in the Principal Investigator’s decision to be replaced. (This possibility is limited to cases where the candidate for replacement is a Co-Investigator (*kenkyū-buntansha*) in the funded project.) In such a case, the Principal Investigator should obtain the consent of the person who will become the new Principal Investigator, and should file an application by filling in and submitting Form C-9, “Application form for approval for a change in the project members”, and obtain the approval of JSPS.

If the new Principal Investigator belongs to a different institution, he/she should fill in and submit to JSPS Form C-10-2, “Notice of change of affiliation after the replacement of the Principal Investigator.”

#### **Change of Co-Investigator (*kenkyū-buntansha*)**

3-9 In case of a loss of eligibility to apply for grants by a Co-Investigator (*kenkyū-buntansha*), or in case of a change of Co-Investigator (*kenkyū-buntansha*), the Principal Investigator should obtain the approval of JSPS by filling in and submitting Form C-9, “Application form for approval for a change in the project members.”

3-10 To assign a replacement to fill the vacancy created by the change mentioned in 3-9 above, the Principal Investigator should complete Form C-11 “Approval form of the Co-Investigator (*kenkyū-buntansha*) (for another institute)” or Form C-12 “Approval form of the Co-Investigator (*kenkyū-buntansha*) (for the same institute)” completed and should retain it.

#### **Suspension due to maternity leave, etc.**

3-11 A Principal Investigator may wish to take a leave before and after childbirth (hereinafter “maternity leave”). In this case, this Principal Investigator may wish to discontinue her funded project before the relevant fiscal year ends, and to receive a grant again after her maternity leave terminates in the following fiscal year. In this scenario, the Principal Investigator should fill in and submit Form C-13 “Application form for approval to suspend a project”, and obtain the approval of JSPS, before taking the maternity leave. She should also refund the unused part of the grant and, within 30 days of the discontinuation, file reports to JSPS on the progress of her funded project up to the point of discontinuation. The reports should include Form C-6 “Report on results (Report on settlement of accounts)” and Form C-7-1, “Report on results (Report on the research results)”. The section “Summary of the research results” in the abovementioned report of the research results will be displayed on the website of the National Institute of Informatics.

#### **Minor changes**

3-12 It is possible to make changes to the information entered in the sections “Roles”, “Direct

costs (breakdown of partial grants per researcher)”, “This year’s research plan” and “Breakdown of main equipment”, where it is necessary to fulfill the funded project. However, the objectives of the funded project cannot be changed.

#### **Handling of equipment**

3-13 The Principal Investigator and the Co-Investigator (*kenkyū-buntansha*) should make sure that the equipment and other items purchased using direct costs (hereinafter “equipment”) are contributed to the research institution to which the Principal Investigator or the Co-Investigator (*kenkyū-buntansha*) belongs immediately after the purchase. If immediately contributing books that are worth less than 50,000 yen causes inconvenience to the research, they may be contributed when doing so does not cause such inconvenience. If immediately contributing equipment causes inconvenience to the research, the Principal Investigator may have the contribution postponed by filling in and submitting Form C-15 “Application form for approval to postpone contribution”, and obtain the approval of JSPS.

#### **Handling of interest**

3-14 The Principal Investigator and the Co-Investigator (*kenkyū-buntansha*) should ensure that the interest accrued from the direct costs is used to implement the funded project or is transferred to the institution to which the Principal Investigator or the Co-Investigators (*kenkyū-buntansha*) belongs.

#### **Handling of income**

3-15 The Principal Investigator and the Co-Investigators (*kenkyū-buntansha*) should refund to JSPS any income that is related to the funded project that is gained after the submission of the report on the research results.

### **4. Transfer of the indirect costs**

#### **Transfer of the indirect costs**

4-1 If indirect costs are granted, the Principal Investigator and the Co-Investigator (*kenkyū-buntansha*) should immediately transfer the indirect costs to the institution he/she belongs to. This also applies where the Principal Investigator and the Co-Investigator (*kenkyū-buntansha*) have changed affiliation (i.e. changed research institution).

#### **Refund of the indirect costs**

4-2 The institution to which the Principal Investigator and the Co-Investigator (*kenkyū-buntansha*) transferred may refuse to accept the indirect costs. In this case, the Principal Investigator should obtain the approval of JSPS by filling in and submitting Form C-16 “Application form for a change in the decided amount of indirect costs”, and should refund the unused portion of the indirect costs. This also applies where the institution to which a Co-Investigator (*kenkyū-buntansha*) who is going to replace the Principal Investigator belongs refuses to accept indirect costs. The application should be filed by the Principal Investigator who is going to be replaced.

#### **Addition of indirect costs**

4-3 A Principal Investigator or a Co-Investigator (*kenkyū-buntansha*) who belongs to an institution that refuses to accept indirect costs may change affiliation or be replaced by a researcher who belongs to a different institution. To have the indirect costs granted again, the Principal Investigator should obtain the approval of JSPS by filling in and submitting Form C-16 “Application form for a change in the decided amount of indirect costs”.

## **5. Report of Results**

### **Deadline for submission of the reports**

5-1 The Principal Investigator should file reports to JSPS by May 31, 2009 or, in the case of a discontinued project, within 30 days after the discontinuation. The reports should consist of Form C-6 “Report on the results (Report on settlement of accounts)” and Form C-7-1 “Report on the results (Report on the results of the research)”. The section “Summary of the results of the research” in the abovementioned reports will be shown on the website of the National Institute of Informatics.

### **Submission of reports on results in case of use of grants in the following fiscal year**

5-2 In compliance with the provision in 2-7 above, the period of a funded project may be extended and grants may be used in the following year. In this case, the Principal Investigator should file reports to JSPS. More specifically, he or she should fill in and submit Form C-17-1, “Report on the results (Report of settlement of accounts) (2),” at the end of the fiscal year in which the funded project started. The Principal Investigator should also file the reports mentioned in the previous clause after the completion or discontinuation of a funded project. The section “Summary of the results of the research” in the abovementioned reports will be shown on the website of the National Institute of Informatics.

## **6. Submission of self-assessment report**

The Principal Investigators of research projects of the research categories “Scientific Research”, “Grant-in-Aid for Young Scientists (S)” and “Grant-in-Aid for Creative Scientific Research” of which the research period is more than 4 years and of which FY2008 is the third year of the research period should submit the Form C-7-2 “Self-Assessment Report” to JSPS by May 31, 2009. However, this does not apply to research projects that will receive “research project progress assessment” in FY2008, in accordance with the “Rules Concerning the Screening and Assessment for Grants-in-Aid for Scientific Research (Scientific Research, etc.)”. (The abovementioned report will be made public on the website of the National Institute of Informatics.)

## **7. Submission of reports on research results**

### **Submission of reports on the results and other matters**

7-1 The Principal Investigator for a project categorized as “Scientific Research”, “Grant-in-Aid for Young Scientists (S)”, “Grant-in-Aid for Young Scientists (Start-up)” or “Grants-in-Aid for Creative Scientific Research” should file a report on the results of research funded by a grant, by filling in and submitting Form C-19 “Report on research results” to JSPS between June 20 and June 30 of the fiscal year that follows the final fiscal year of the research plan. However, if the research results cannot be summarized by the abovementioned deadline, the Principal Investigator should fill in and submit Form C-21 “Report on progress of research” to JSPS. As soon as the summary of the results is ready, the Principal Investigator should submit it to JSPS. (The abovementioned report will be made public on the website of the National Institute of Informatics.)

7-2 A project may have to be withdrawn due to the adoption of a project application for the fiscal year before the final fiscal year of a Research Plan. If so, the Principal Investigator should promptly report the results of his/her project in the final fiscal year by submitting Forms C-19 “Report on research results” to JSPS. In principle the reports should be submitted by June 30 of the fiscal year that follows the final fiscal year in which the project has been withdrawn. Moreover, the abovementioned report will be made public on the website of the National

## **8. Presentation of research results**

### **Required indication at publication of the research results**

8-1 When publishing the results of a funded project, the Principal Investigator and the Co-Investigators (*kenkyū-buntansha*) should indicate that the project was supported by Grants-in-Aid for Scientific Research.

### **Report of publication of research results**

8-2 Whenever the results of a funded project are published in a newspaper, book, magazine, journal or other medium, or are granted a patent, the Principal Investigator should report it to JSPS by filling in and submitting Form C-24 “Report of publication of research results” or Form C-25 “Report of publication in a newspaper, etc.”.

## **9. Other items**

### **Maintaining fairness when conducting research activities**

9-1 During the implementation of a funded project, no fraudulent acts concerning the research activities (forgery, manipulation, or plagiarism of data or research results included in publicized research results) should be committed, and nobody should become involved in such fraudulent acts.

### **Compliance with bioethics and safety measures**

9-2 If a research plan to be implemented by the Principal Investigator or the Co-Investigator(s) (*kenkyū-buntansha*) includes research that requires the social consensus, care and consideration in the handling of personal information, or a commitment to bioethics or safety, or other kinds of research that require compliance with the related laws and ordinances, the Principal Investigator and the Co-Investigators (*kenkyū-buntansha*) should follow the related laws and ordinances in implementing the research plan.

### **Storage of related documents**

9-3 The Principal Investigator and the Co-Investigator(s) (*kenkyū-buntansha*) should maintain the accounts of the balance of the grant, file the receipts and other related documents, and retain them for at least five years after the end of the fiscal year in which the grant is received.

## **6. Procedures on the Handling of JSPS Grants-in-Aid for Scientific Research (Scientific Research, etc.)**

(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

### **(General rules)**

Article 1 The handling of Grants-in-Aid for Scientific Research (Scientific Research etc.), 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 of 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 Management Procedures.

### **(Objectives)**

Article 2 The aim of the Management 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 Management 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) Scientific Research;
  - b) Exploratory Research;
  - c) Grant-in-Aid for Young Scientists (S);
  - d) Grant-in-Aid for Young Scientists (Start-up); or
  - e) 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 the Management Procedures, a research institution refers to an institution that engages in academic research and falls under any of the following definitions provided in Article 2, Clause 1 of Handling Rules.
  - (1) Universities or inter-university research institutes (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
3. In these Management 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 Management 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 Management 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 Management 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 Management Procedures "illicit use" is use of the grant-in-aid for scientific research for other purposes, intentionally or by serious 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 Management 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.
9. 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.

**(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 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, taking into consideration the content of the fraudulent acts in question and other elements.
2. 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 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 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.

**(Account books 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.

**(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.

**(Contribution of equipment and suchlike)**

Article 20 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 contribute 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 contribute 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. worth 50,000 yen or more, the recipient should promptly contribute 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 contribute the purchased equipment etc. to the research institute, the equipment etc. may not be contributed until the time the abovementioned contribution 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 21 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 Management Procedures take effect in compliance with JSPS Grants-in-Aid for Scientific Research (Scientific Research) Management Procedures (Rule No. 6, June 9, 1999) is deemed as JSPS's handling of a grant in accordance with the relevant provisions in the Management 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 Management 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.

## 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 I, Research Program Department, Japan Society for the Promotion of Science

Phone: 03-3263-0976,0980,1041

(2) Availability of electronic application system:

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

Call center: 0120-556739 (toll-free)

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

\* The following phone numbers are also available: 03-3263-1902 and 03-3263-1902-1913

(3) About “Report on the Status of the Implementation of the System, Based on the Guidelines on the Management and Audit of Public Research Funds at Research Institutions”:

Office of Research Funding Administration, Research and Coordination Division, Science and Technology Policy Bureau, the Ministry of Education, Culture, Sports, Science and Technology

Phone: 03-6734-4014

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>