

Purpose of the Research

The applicant shall indicate the general nature of the research and the specific purpose of the research, after succinctly summarizing it and providing an outline at the beginning, and with the existing academic literature referred to where necessary. In particular, details shall be given clearly with a focus on the following points. [Refer to the rules relating to the screening and evaluation for grants-in-aid for scientific research.]

- 1) Scientific background for the research (e.g., domestic and overseas trends related to the research and positioning of the research; how the applicant has reached the concept based on his or her achievements in earlier research work; and details of achievements of past research work where the purpose of this project is to attain a greater level of knowledge in a similar area)
- 2) What will be elucidated and to what extent will it be pursued during the research period
- 3) Scientific characteristics, originality and expected results and significance of the research in the area

Purpose of the Research (Outline) * Concerning the Purpose of the Research Project, the applicant should succinctly summarize and describe in detail.

| | | | |
|----------------------------------|--|------------------------------------|--|
| Name of the research institution | | Name of the Principal Investigator | |
|----------------------------------|--|------------------------------------|--|

Purpose of the Research (continued)

Research Plan and Method

The applicant should provide details of the research plan and the methods for achieving the objectives of the research in a clear and specific manner, after succinctly summarizing it and providing an outline at the beginning. The plan should be divided into one for FY2011 and one for FY2012. The literature should be referred to as needed and main points focused on. The plan and methods should indicate achievements through a discussion from different angles, such as the action in the event that the research does not progress as originally planned. Where the research plan is being implemented by a group, indicate the specific roles of the Principal Investigator and Co-Investigator (*kenkyu-buntansha*) of the research team (using figures, tables and other visual aids) In case the research plan is being implemented together with Co-Investigators (*kenkyu-buntansha*), include the necessity and rationality of the research group, and the relationship to the purpose of the research from the scientific viewpoint.

In addition, in order to clearly indicate the general view of the research team, state the roles of Co-Investigators (*kenkyu-buntansha*) and Research Collaborators [overseas co-researchers, company-employed researchers not eligible to apply for the grants-in-aid for scientific research, graduate students and others (the names and the number of members may be stated)].

Research Plan and Method (Outline) * Concerning the Research Plan and Method to accomplish the Purpose of the Research, the applicant should succinctly summarize and describe in detail.

| | |
|----------------------------------|------------------------------------|
| Name of the research institution | Name of the Principal Investigator |
|----------------------------------|------------------------------------|

Research Plan and Method (continued)

Research Plan and Method (continued)

Name of the research
institution

Name of the Principal
Investigator

State of Preparations for the Research Plan and Methods to Disseminate the Research Results to

Society and Citizens

- The following points should be highlighted and stated in a clear and specific manner:
- 1) The current state of research environment, such as research facilities, equipment and materials that are to be used in conducting the research
 - 2) The state of preparation for starting the research, such as coordination and contact with research members, in case there are Co-Investigator(s) (*kenkyu-buntansha*) (This should also be stated if appropriate in the case that there are Co-Investigators (*kenkyu-buntansha*) and/or Research Collaborators.)
 - 3) How the research achievements are disseminated to society and members of the public

Entries when Applying for a Grant for the Final Year of a Research Plan

[It is essential that this is filled in by the relevant applicants. (see procedures for application)]

The applicant should indicate the initial research plan of a continued research project having FY2011 as the final year in which the applicant participates as the Principal Investigator. The applicant should also state new findings in the research and other research achievements and reasons for the new application based on a reconstruction (e.g., the degree to which the research has been developed and a justification of the cost). (Do not include the research achievements of the continued research project stated here in *Research funding received and the achievements* on Scientific Research A/B (General) - 10.)

| Research Category | Screening Division | Project Number | Title of a Research Project | Research Period |
|-------------------|--------------------|----------------|-----------------------------|----------------------------|
| | | | | From FY _____ to FY2011 |

Initial Research Plan and Results

Reasons for Applying

Recent Research Activities

The applicant should fill in the important research papers/articles, books, industrial property rights and invited lectures relating to the research in the sequence of publication from new to old with serial numbers assigned. Lines should be drawn between groups of research papers and others published in the same calendar year to separate them. Forthcoming research papers/articles in academic journals may be included, only if they have been accepted for publication.

Moreover, if the need arises, it is also possible to fill in the recent research activities of the Co-Investigators (*renkei-kenkyusha*). If the recent research activities are filled in, double lines should be drawn to distinguish between them. (The double lines can be moved.) They should be filled in per researcher in the sequence of publication from new to old. (It is not necessary to draw lines between every year.)

| Year of Publication | Names of the Principal Investigator and Co-Investigator(s) (<i>kenkyu-buntansha</i>) | Title of Published Research Papers/Articles, Books, and Other Publications (For published research papers/articles, state the title, the names of authors, name of the journal, referee reading, volume, page numbers of the initial and final pages and the year of publication.) The abovementioned sequence of such items is not compulsory as long as all of the items are included. <u>If there are many authors, only include several authors omitting others (if any authors' names are omitted, state the number of the authors and the order on the author list for the related researchers).</u> The Principal Investigator should be marked with a double underline, Co-Investigator(s) (<i>kenkyu-buntansha</i>) with a single underline, and the Co-Investigator(s) (<i>renkei-kenkyusha</i>) with a dotted underline. | |
|---|--|---|--|
| 2010 onward | | | |
| 2009 | | | |
| 2008 | | | |
| 2007 | | | |
| 2006 | | | |
| Name of the Co-Investigator (<i>renkei-kenkyusha</i>) (research institution, academic unit, position) | Titles of published research papers/articles, titles of books, etc. (Please do not mention items which have been mentioned in the section above as recent research activities of the Principal Investigator or Co-Investigator(s) (<i>kenkyu-buntansha</i>)). | | |
| | | | |
| Name of the research institution | | Name of the Principal Investigator | |

| Recent Research Activities (continued) | | |
|--|---|--|
| Year of Publication | Principal Investigator/ Co-Investigator (<i>kenkyu-buntansha</i>) | Title of Research Papers/Articles, Books, and Other Publications |
| | | |

| Recent Research Activities (continued) | | | |
|--|---|---|--|
| Year of Publication | Principal Investigator/ Co-Investigator (<i>kenkyu-buntansha</i>) | Title of Research Papers, Books, and Other Publications | |
| | | | |
| Name of the research institution | | Name of the Principal Investigator | |

Research Funding Received and Achievements

State the achievements of funded research that is being effectively used for planning the current research from the grants that the Principal Investigator/Co-Investigator (*kenkyu-buntansha*) has received (including grants-in-aid for scientific research, research funding provided by his or her research institution, research funding paid by any ministry/office, local public organization, research promotion corporation, private corporation and any current research funding). Classify the grants into grants-in-aid for scientific research and others. The following should be taken into consideration:

- 1) For each research funding, state the research category (name of the system for research funding other than grants-in-aid for scientific research), period (fiscal year), title of the research project, whether the applicant is the Principal Investigator or Co-Investigator (*kenkyu-buntansha*) eligible costs of the research. Also give a clear statement of the research achievements and interim and after-the-fact assessment results (only to be made by the funding organizations). (If there are research progress assessment results for the grant-in-aid for scientific research for FY2009 or in FY2010, they should be described in the section “Connection between the Research Plan and the Research Project which received a Research Progress Assessment” on Scientific Research A/B (General) -11.)
- 2) The applicant should describe them and make a distinction by drawing a line between grants-in-aid for scientific research and other research funding.

Connection between the Research Plan and the Research Project which received a Research Progress Assessment

- If the Principal Investigator of the current application received a research progress assessment in FY2009 or in FY2010, as a Principal Investigator of “Specially Promoted Research”, “Scientific Research (S)”, “Grant-in-Aid for Young Scientists (S)” or “Grant-in-Aid for Creative Scientific Research”, he or she should describe it in this section
- The researcher should describe the connection between the research plan and the research project which received a research progress assessment in this section (e.g. what kind of connection is there, how the researcher will advance the research which received a research progress assessment in concrete terms, etc.).

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

| | | | |
|----------------------------------|--|------------------------------------|--|
| Name of the research institution | | Name of the Principal Investigator | |
|----------------------------------|--|------------------------------------|--|

Protection of Human Rights and Compliance with Laws and Regulations (see procedure for application)

Describe the measures and action that you will take if your research involves compliance with the related laws and regulations (e.g. research requiring the consent and the cooperation of the other party when implementing the research plan, research requiring consideration for the handling of personal information and research requiring efforts regarding bioethics and safety measures). This applies to surveys, research, experiments which require an approval procedure in an ethics committee outside the research institution, such as for example questionnaire surveys in which personal information is involved, interview surveys, the use of provided samples, analysis study of human genome, recombinant DNA experiments, experiments on animals, etc. Please indicate where this is not applicable.

Rationality and Justification of the Research Costs

The applicant should explain the rationality, necessity and grounds for calculating the research cost to be stated on the following page and thereafter, based on the scale and organization of the research given in *Research Plan and Methods*. Indicate the necessity of the cost (e.g. breakdown) if, in any fiscal year of the research project, any of the costs (equipment, travel expenses, and personnel (technical assistant, labor cost, etc.), and suchlike) exceeds 90% of the entire research funding, or if there is any other predominant cost.

Scientific Research A/B (General) - 13

(Unit: in thousands of yen)

| Statement of Costs for Equipment [(See the procedures for preparing and entering a Proposal for Grant-in-Aid for Scientific Research (A/B) (General).)] | | | Statement of Costs for Consumables [(See the procedures for preparing and entering a Proposal for Grant-in-Aid for Scientific Research (A/B) (General).)] | |
|---|--|------------------------------------|---|--------|
| FY | Item and Specifications (unit price × qty) (institute where equipment is installed) | Amount | Item | Amount |
| 2011 | | | | |
| Name of the research institution | | Name of the Principal Investigator | | |

Application for Research Funding, Current State of Funding and Effort

(Since examiners will refer to the information stated here in the second screening (collegial screening) when they discuss whether a research project will be able to be sufficiently implemented without causing unreasonable duplication or excessive concentration of research funding. It is necessary that the applicant correctly states the budget for the proposed research project that he or she receives and uses. The applicant should take into account the following: (1) research funding under application, (2) research funding to be granted and (3) other activities at the time of application by the Principal Investigator. Distinguish between sources of research funding, if there is more than one. For the exact method for filling in the necessary data, the applicant should verify the procedures for preparing and entering the proposal for grant-in-aid for Scientific Research A/B (General).

- 1) Fill in *Effort* with a percentage of time allocation (%) necessary for the implementation of the research where the entire yearly working time is set at 100%.
- 2) State the title of the research project at the beginning of *Research funding applied for*.
- 3) In the case of a grant-in-aid for scientific research for “Scientific Research on Innovative Areas (Research in a proposed research area)” or “Scientific Research on Priority Areas”, the applicant should state whether it is “planned research” or “invited research”.
- 4) Include research funding to be competitively provided by the research institution to which the researcher belongs.

(1) Research funding applied for

| Funding system, name of research funding and research period (e.g., name of the funding institution) | Title of the research project (name of the Principal Investigator) | Role (Principal Investigator or Co-Investigator (kenkyu-buntan sha)) | Budget for FY2011 (throughout the period) (thousands of yen) | Effort (%) | Differences in details of research and reasons for additional application for a grant for the current research project <small>(In the case of a Principal Investigator (or a researcher who receives the grant for the whole program, like, for example, the Project Leader), the amount to receive for the whole research period (or for the whole program) should be entered)</small> |
|--|--|--|--|------------------------------------|--|
| Research project for which a grant is applied Scientific Research () (General) (2011-____) | | Principal Investigator | | | |
| | | | | | |
| Name of the research institution | | | | Name of the Principal Investigator | |

To be filled in and attached by the Principal Investigator

| Application for Research Funding, a Current State of Funding and Efforts (continued) | | | | | |
|---|--|---|--|------------|--|
| (2) Research funding to be provided | | | | | |
| Funding system, name of research funding and research period (e.g., name of the funding institution) | Title of the research project (name of the Principal Investigator) | Role (Principal Investigator or Co-Investigator (<i>kenkyu-bun tansha</i>)) | Budget for FY2011 (throughout the period) (thousands of yen) | Effort (%) | Differences in details of research and reasons for additional application for a grant for the current research project <small>(In the case of a Principal Investigator (or a researcher who receives the grant for the whole program, like, for example, the Project Leader), the amount to receive for the whole research period (or for the whole program) should be entered)</small> |
| | | | | | |
| (3) Other activities (State the effort for the research and educational activities that are carried out as work) other than the aforesaid research activities being applied for or to be funded. | | | | | |
| Total (Total of the effort in (1), (2) and (3) above) | | | | 100 (%) | |