

1. Research Objectives, Research Method, etc.

This research proposal will be reviewed in the Basic Section of the applicant's choice. In filling this application form, refer to the Application Procedures for Grants-in-Aid for Scientific Research -KAKENHI-.

Research objectives, research method, etc. should be described within 4 pages.

A succinct summary of the research proposal should be given at the beginning.

The main text should give descriptions, in concrete and clear terms, of (1) scientific background for the proposed research, and the "key scientific question" comprising the core of the research plan, (2) the purpose, scientific originality, and creativity of the research project, and (3) applicant's research development leading to conception of the present research proposal, domestic and overseas trends related to the proposed research and the positioning of this research in the relevant field, (4) what will be elucidated, and to what extent and how will it be pursued during the research period, and (5) preparation status towards achievement of the purpose of the research project.

If the proposed research project involves Co-Investigator(s) (Co-I(s)), a concrete description of the role-sharing between the Principal Investigator (PI) and the Co-I(s) should be given.

[SUMMARY]

Matters to be noted when preparing the Research Proposal Document

Read the following important notes carefully before preparing this form. Delete this entire text box when filling in this form.

Note 1 :

1. *Read and understand the following important notes carefully before preparing your Research Proposal Document.*

KAKENHI funding aims to promote scientific research in all fields based on original ideas of researchers. The grants provide financial support for creative and pioneering research projects that will become the foundation of social development.

In KAKENHI, research theme setting is at the applicant's discretion. As such, KAKENHI research proposals are evaluated based not only on their scientific significance, but also on their originality and creativity. Accordingly, in the Research Proposal Document forms for the "Scientific Research" and "Early-Career Scientists" categories, applicants are required to state:

- ✓ What kind of key scientific question(s) is set against the relevant scientific background (such as research trends and new developments)?
- ✓ What are the scientific originality and creativity of the proposal?
- ✓ What was the research development leading to the conception of the research idea?
- ✓ What are the research trends (domestic and overseas) and the positioning of this research in the relevant field?

In the review process, research proposals will be screened either by Comprehensive Review or Two-Stage Document Review.

Reviewers strive to grasp the essence of the proposed research through exchange of opinions among them, evaluate such merits as scientific significance, originality and creativity, and comprehensively place their judgments taking account of the feasibility of the research plan and the applicant's ability to conduct research.

In applying for KAKENHI, applicants are advised to take note of the above, and to read the Application Procedures for Grants-in-Aid for Scientific Research and the explanations of review criteria and the annotations in the application form in preparing their Research Proposal Documents, so that the scientific merits and other points in the research proposal will be appropriately conveyed to the reviewers.

Note 2:

1. *Read carefully the "Procedures for Preparing and Entering a Research Proposal Document" when preparing the document.*
2. *The document should be written with font size 10-point or larger.*
3. *The title and instructions on the upper part of each page should be left intact.*
4. *Do not exceed the maximum number of pages specified in the instructions. In case blank page(s) occur, leave them as they are (do not eliminate any page).*

Read the following important notes carefully before preparing this form. Delete this entire text box when filling in this form.

[MA]

Scientific Research (C) (General) 2

[1. Research Objectives, Research Method, etc. (continued from the previous page)]

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2. Applicant's Ability to Conduct the Research and the Research Environment

Descriptions of (1) applicant's hitherto research activities, and (2) research environments including research facilities and equipment, research materials, etc. relevant to the conduct of the proposed research should be given within 2 pages to show the feasibility of the research plan by the applicant (PI) (and Co-I(s), if any).

If the applicant has taken leave of absence from research activity for some period (e.g. due to maternity and/or child-care), he/she may choose to write about it in "(1) applicant's hitherto research activities".

○Read the following important notes carefully before preparing this form. Delete this entire text box when filling in this form.○

*** Note:**

1. *The description in this column is to explain the feasibility of the research plan. On citing research achievements (research papers, books, patents, invited talks, etc.) they should be given not as an exhaustive list but as supporting evidence to prove the applicant's ability to conduct the proposed research.*
2. *Sufficient information should be given so that the reviewers can identify the research achievements. In the case of a research paper, for example, the relevant bibliographic information, including the title of the paper, the author(s), the title and the volume of the journal, the publication year, and the pages of the article should be given.*
3. *The research papers that can be cited are only those already published or accepted for publication.*

○Read the following important notes carefully before preparing this form. Delete this entire text box when filling in this form.○

[2. Applicant's Ability to Conduct the Research and the Research Environment (continued from the previous page)]

3. Issues Relevant to Human Right Protection and Legal Compliance

(cf. Application Procedures for Grants-in-Aid for Scientific Research)

In case the proposed research involves such issues that require obtaining consent and/or cooperation of the third party, consideration in handling of personal information, or actions related bioethics and/or biosafety (including the laws and regulations and the guidelines in the country/region(s) where the joint international research is to be conducted), the planned measures and actions for these issues should be stated within 1 page.

This applies to research activities that would require approval by an internal or external ethical jury, such as research involving questionnaire surveys, interviews and/or behavior surveys (including personal histories and images) including personal information, handling of donated specimens, human genome analysis, recombinant DNA, and experimentation with animals.

If the proposed research does not fall under such categories, enter "N/A (not applicable)".

4. Items to be Entered When New Application is Made in the Fiscal Year Previous to the Final Year of the Research Period of an On-Going KAKENHI Project

(For an application that comes under this category, this column is a mandatory entry. (cf. Application Procedures for Grants-in-Aid for Scientific Research))

The applicant should give within 1 page: (1) the relevant information on the on-going project (for which FY2022 is the final year of the research period) including the original plan at the time of application/adoption and the research accomplishment such as new knowledge acquired, and (2) the reason why he/she is submitting this new proposal for FY2022 on top of the on-going project (in terms of the development of the on-going research, necessity of new research budget, etc.). If not applicable, leave this page blank. (Do not eliminate the page.)

| Research Category | Project Number | Title of the Research Project | Research Period |
|-------------------|----------------|-------------------------------|-----------------|
| | | | FY__ to FY2022 |

The original plan at the time of application/adoption and the research accomplishment of the on-going project.

The reason for submission of this new proposal.