

1ページ目、2ページ目の各項目名については、外国人の方にその内容が分かるよう、便宜的に英訳も併記していますが、審査に付す際には、日本語のみの表示となります。

The item names written in English in the first two pages of this form (to be entered in the Website) are provided for the convenience of non-Japanese applicants. Only the Japanese item names will be shown when this form is sent to reviewers.

令和3年度(2021年度) 若手研究 研究計画調書
RESEARCH PROPOSAL DOCUMENT

GRANT-IN-AID FOR EARLY-CAREER SCIENTISTS (FY2021)

令和XX 年XX月XX日

September 1st, 2020

1版

1st edition

新規

New Proposal

研究種目 Research Category	若手研究 Early-Career Scientists						
小区分 Review Section (Basic Section)	関連						
研究代表者氏名 Principal Investigator (PI)	(フリガナ)	ダイヒョウ タロウ					
	(漢字等) Name (in Roman letters)	DAIHYO TARO					
所属研究機関 Research Institution	北海道大学						
部局 Academic Unit (School, Faculty, etc.)	研究院						
職 Position	助教						
学位 Academic Degree	Ph.D.						
エフォート Effort	00%	博士号取得年月日 Date of Ph.D. Acquisition			平成 年 月 日		
応募要件 Application Requirements	Application Requirements (1) to (4) you selected in the KAKENHI Electronic Application System should appear here (Make sure not to apply with number that doesn't match your application requirements!)						
研究課題名 Title of Proposed Research Project	Research title should clearly reflect the content of research (purpose, method and goal), what you want to achieve and to what extent, within the proposed research period. It should not exceed 200 half-width or single-byte (or 40 if full-width or double-byte & half-width mixed, in case of Japanese) characters.						
研究経費 Research Expenditure (1000 yen) 千円未満の端数は 切り捨てる Round off fractions smaller than 1000 yen.	年度 Fiscal Year	研究経費 (千円) Annual Expenditure (1000 yen)	使用内訳 (千円) Breakdown (1000 yen)				
		設備備品費 Equipment Costs	消耗品費 Consumables Expenses	旅費 Travel Expenses	人件費・謝金 Personnel cost /Honoraria	その他 Miscellaneous Expenses	
	令和3年度 FY2021	¥, ¥¥	¥, ¥¥	¥, ¥¥	¥¥	¥¥	0
	令和4年度 FY2022	¥, ¥¥	0	¥, ¥¥	¥¥	¥¥	¥¥
	令和5年度 FY2023	¥, ¥¥	0	¥, ¥¥	¥, ¥¥	¥¥	¥¥
	令和6年度 FY2024						
総計 Sum Total							
開示希望の有無 Request for disclosure							

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-**.

In this column, research objectives, research method, etc. should be described within 3 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 significance, and originality of the research project, and (3) what will be elucidated, and to what extent and how will it be pursued during the research period.**

[SUMMARY]

Give a clear and brief outline of the (1) scientific background, (2) research objectives, and (3) research methods using straightforward expressions that are readily understood by the reviewer.

[MAIN TEXT]

(1) Scientific background for the proposed research and scientific question(s)

Concerning the research object/target, first describe what has been already elucidated and what problems remain yet to be solved. Then, raise the issues comprising the core of your research plan.

【Check-points common to all pages】

Does the Application Form type match the Review Section applied by you?

For proposals written in English, the recommended font is Times New Roman, 11-point size minimum (except for References, which can be 9-point)

(Although Reviewers may handle PDF file, the proposal text should be easily readable without any enlargement!)

Check if the space and pages allocated to each item, and the margins (upper & lower: 20 mm each; Left & right: 25mm each) are preserved.

*Do not change the format. Do not delete or insert extra pages!

*Any changes in margins may result in loss of information upon printing!

Carefully check for grammatical and spelling errors, and calculation mistakes (ensure consistency with the data entered via the electronic system).

Are the illustrations clearly visible when printed in monochrome mode?

- Even if your illustrations may be in color, they will be printed or converted to PDF mode in gray scale (monochrome) mode and delivered to the reviewers.

Does your writing "flow" with smooth transitions?

- Is the writing logical?

- It may be good idea to use subheadings and itemization, and also emphasize important parts of the text showing in bold or with underline.

- Avoid the frequent use of foreign words, abbreviations and specialist terms and ensure that it is understood by reviewers who may be from other fields.

- Is the first sentence (topics sentence) catchy (appealing)?

- Are the sentences too long and complex? If yes, better try to breakdown to ensure that one sentence gives one message.

Avoid leaving large blank spaces. It is a good practice to fill first at least until the half of the last page of each item, and use up the available space by inserting (additional) illustrations (diagram, table) with captions and explanation.

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

(2) Purpose, scientific significance, and originality of the research project

State the purpose of proposed research that is consistent with the scientific issues raised in (1).

Demonstrate the scientific peculiarities and strengths of your research, for example, by showing how it differs from other similar research projects. Also, convey a clear message that this research will be conducted by the principal investigator, playing the key role, in an independent and subjective manner. * The reviewer is the one to make judgements. Therefore, avoid strong statements, such as: "... is original, because of ..." or "This research has high originality from the viewpoint".

(3) What will be elucidated, and to what extent and how will it be pursued during the research period

Describe, in an easy-to-understand way, what methods you will explore, and how you will execute the research plan (schedule) to achieve the objectives you mentioned in (2) above.

Here are some recommendations:

- Arrange the research purpose item-wise, stating the content and goal for each item.

*In case of many items, arrangement in tabular form is recommended.

- Describe the research plan for each financial year.

*To enhance understanding, show the connection with research expenses requested for each financial year

- Through your description, justify the appropriateness of the division of responsibilities among you (PI) and Co-Investigator(s).

* If the organizational structure is complicated and involves too many people, include a diagram that shows the relationship of research organizations concerned.

Research methods should be described as concretely as possible.

In addition to the results expected, mention about the ripple effects such as the potential for practical applications to solve broader academic, science & technology, and social issues.

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

Avoid leaving large blank spaces. It is a good practice to fill first at least until the half of the last page of each item, and use up the available space by inserting (additional) illustrations (diagram, table) with captions and explanation.

2. Research Development Leading to Conception of the Present Research Proposal, etc.

In this column, descriptions should be given within 1 page, of (1) applicant's research history leading to the conception of this research proposal and its preparation status, and (2) domestic and overseas trends related to the proposed research and the positioning of this research in the relevant field.

(1) Applicant's research history and state of preparation

Considering section 1(1) mentioned earlier, section "Applicant's Hitherto Research Activities" to be described later, and section (2) below, give an easy-to-understand summary of the scientific concepts leading to the proposed research.

Mention the state of preparations such as preliminary surveys etc., and thereby explain that you are ready for the proposed research.

(2) Domestic and overseas trends and positioning of the proposed research

You may cite appropriate references (sources) to support your statements.

* Plain writing that assumes a certain level of expertise of researchers within the proposed "Review Section" is fine. But, make it simpler, if the Review Section is likely to have reviewers beyond the proposed specialization.

* Too many citations (to references/sources) are not recommended.

Describe the scientific significance of the proposed research, justifying its originality, in the context of the domestic (within Japan) and international research trends.

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

In this column, 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 (Principal Investigator).

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".

(1) Applicant's hitherto research activities

Considering item (1) of the previous section and item (2) below, provide evidences to support your argument regarding the feasibility of proposed research. For this, describe the past record of your research (type, content, and achievements such as scientific articles and also prize(s) worth of special mention, etc.)

Besides giving the examples of important achievements, you may describe past research activities that, for example, didn't yet yield tangible results but helped to explore novel scientific problems.

* 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.*
- 4. These notes written in italics should be deleted when filling this column.*

As this space is not intended for providing a list of all publications, write this section by citing selected publications that sufficiently demonstrate the research capacity of the principal investigator.

The reviewers will have access to Researchmap* or KAKEN databases in case of need to look at the list of publications of the applicant. In order to enable this functionality, each applicant is required to update his/her publication list in Researchmap and also to register the "Research Funding Number" (科研費研究者番号).

*It is envisaged that the researchmap database will be increasingly used in connection with applications submitted to the country-level competitive funds. For this reason, please ensure that your publication record in it is up-to-date.

(2) Research environments including research facilities and equipment, research materials, etc. relevant to the conduct of the proposed research

Describe the state of current research environment (facility, equipment, samples etc.) to show that it is appropriate for the proposed research. If the research environment is still inadequate at present, explain this aspect and mention about the measures to be taken to improve the situation so as to be able to smoothly conduct the proposed research.

Describe the measures to be taken if the research plan doesn't proceed as expected.

4. 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)”.

【 Example 1 】

As the proposed research plan involves the use of only, there should, normally, be no need to take measures related to Human Right Protection or to follow procedures for Legal Compliance. In the case of an unexpected situation during the course of this research requiring legal procedures, however, necessary measures will be taken before continuing the research further.

【 Example 2 】

The proposed research, due to its nature of multifaceted investigations, involves the use of During the execution of research activities, therefore, the “..... Law” and “Guidelines for the handling of” will be strictly followed, and prior inspection and approval from the committee of Hokkaido University will be obtained.

In addition, the proposed research also involves collection of personal information that requires handling considerations. Therefore, personal information will be collected only after obtaining appropriate consent from the concerned individuals and the collected information will be managed under strict supervision. Furthermore, it will not be used for purpose other than the proposed research, and the research results will be publicized only after data anonymization in order to prevent from identifying any individuals by their names.

If the information provided in this space is found to be incorrect or insufficient by the reviewers, the applicant may be informed after selection, if any, at a later date through the university office.

「研究経費とその必要性」欄と「研究費の応募・受入等の状況」欄の各項目については、外国人の方にその内容が分かるよう、便宜的に英訳も併記していますが、審査に付す際には、日本語のみの表示となります。
 The item names written in English in the column of "Research Expenditure and Their Necessity" and in the column of "Research Grants Adopted and to be Delivered" of this form(to be entered in the Website) are provided for the convenience of non-Japanese applicants. Only the Japanese item names will be shown when this form is sent to reviewers.

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研究経費とその必要性 Research Expenditure and Their Necessity (金額単位：千円) unit: 1000 yen

年度 FY	設備備品費の明細 Details of the Equipment Costs					消耗品費の明細 Details of the Consumables Expenses	
	品名・仕様 Item(Specification)	設置機関 Place of Installation (Institution)	数量 Quantity	単価 Unit Price	金額 Amount	事項 Item	金額 Amount

For installation at our university, simply write "Hokkaido University".
 No need to mention department or other names.

Just writing "Notebook PC" is not enough.
 Write the maker's (company's) name and specification such as model number/code

List the items required by arranging them in the order of fiscal year (2021, 2022, etc. as applicable).
 The items to be procured given in this list should be in conformity with the proposed Research Plan

After filling the amount in respective cells, Click the "recalculate" button.
 Even if the years are filled in random order, the resulting pdf file is expected to sort and show the proper order.
 Fill the numbers in the units of 1,000 JPY.
 You may not change the order of input (deletion and addition at the end is allowed)

設備備品費、消耗品費の必要性 Necessity of the Equipment Costs and the Consumables Expenses

Explain about the necessity of the costs, item-wise, showing that they are appropriate.
 * Instead of a vague statement like "the costs requested are appropriate", give the basis, breakdown and reason that will convince the reviewers about the rationale for the expenses.

For use at Hokkaido University, the relevant items of expenditure (Equipment, Consumables, Miscellaneous) are to be used while describing costs in this section.
 (Examples: Article reprint cost, coming under printing & binding cost, is treated as "Miscellaneous". Any equipment/device that costs less or equal to 100,000 JPY per piece is put under "Consumables". The charge for scientific analyses/measurements to be paid to a company is also treated as "miscellaneous". Any book requiring registration at Hokkaido University Library is treated as "Equipment")

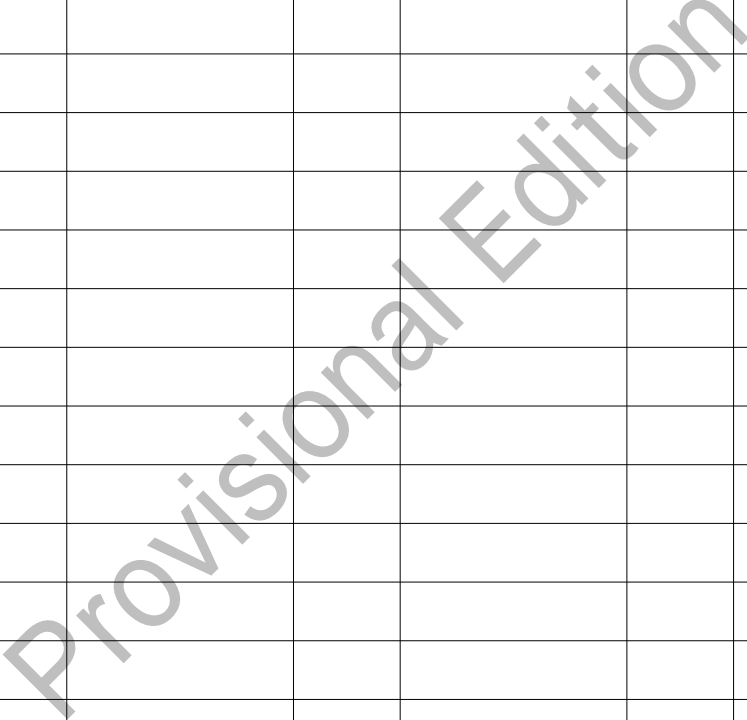
Items to be entered in the Website

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(金額単位: 千円) unit: 1000 yen

年度 FY	国内旅費の明細 Details of the Domestic Travel Expenses		外国旅費の明細 Details of the Overseas Travel Expenses		人件費・謝金の明細 Details of the Personnel Cost /Honoraria		その他の明細 Details of the Miscellaneous	
	事項 Item	金額 Amount	事項 Item	金額 Amount	事項 Item	金額 Amount	事項 Item	金額 Amount

Mention the purpose and destination here
 【例】
 Gathering information (... Conference) .. Days x ..Persons
 Paper Presentation (.. Seminar) ..Days x .. Persons
 ... Survey (Sapporo to ..) ..Days x ..Persons x ..Times
 Travel Expenses, Overnight Stay Expenses, Daily Allowances can be combined and listed as a single item



旅費、人件費・謝金、その他の必要性 Necessity of Travel Expenses, Personnel Cost/Honoraria, and Miscellaneous Items

Explain about the necessity of the costs, item-wise, showing that they are appropriate.
 * Instead of writing, for example, “the costs requested are appropriate”, mention the basis, breakdown and reason that will convince the reviewers about the rationale for the proposed expenses.

研究者氏名 Name					
資金制度・研究費名(研究期間・配分機関等名) Funding scheme, Grant category (Research period, Funding organization, etc.)	研究課題名 (研究代表者氏名) Title of the Research Project (Name of the PI)	役割 Role in the Project	令和3年度の研究経費 (期間全体の額) Research Expenditure in FY2021 (Research Expenditure for the whole period)	エフォ-ト (%) Effort (%)	研究内容の相違点及び他の研究費に加えて本応募研究課題に応募する理由 (科研費の研究代表者の場合は、研究期間全体の受入額) Distinction of the research contents, and Reason for submission of this KAKENHI application in addition to the other projects. (For a KAKENHI grant as PI, enter the total research expenditure for the whole research period.)
			(千円) 1000 yen		
<p>For grants other than KAKENHI, select "others", enter the concrete names of grant and funder. Enter the amount of the grant in the units of 1000 JPY.</p> <p>(Effort) It is the percentage of time allocation (%) necessary for the implementation of the research in question, if the entire yearly working time* of the researcher is set at 100%. Moreover, * the "entire yearly working time" (100%) includes time spent on research, educational and other activities.</p>					
			(千円) 1000 yen		
<p>For members other than KAKENHI PI, it is not necessary to enter the total research expenditure for the whole research period. (However, entering such information will not create any problem!)</p>					
			(千円) 1000 yen		
<p>Enter the amount to be used (planned) by the applicant alone 【For Research proposed as PI】 Amount excluding the fund allocated to other co-researchers 【For Research proposed as kenkyu-buntansha (co-investigator)】 Fund allocated by PI</p> <p>First write the amount for FY2021, and below it within () write the amount for the whole period.</p>					
			(千円) 1000 yen		

(2) 受入予定の研究費
 (2) Research Grants Adopted and to be Delivered

資金制度・研究費名 (研究期間・配分機関等名) Funding scheme, Grant category (Research period, Funding organization, etc.)	研究課題名 (研究代表者氏名) Title of the Research Project (Name of the PI)	役割 Role in the Project	令和3年度の研究経費 (期間全体の額) Research Expenditure in FY2021 (Research Expenditure for the whole period)	エフオ-ト (%) Effort (%)	研究内容の相違点及び他の研究費に加えて本応募研究課題に応募する理由 (科研費の研究代表者の場合は、研究期間全体の受入額) Distinction of the research contents, and Reason for submission of this KAKENHI application in addition to the other projects. (For a KAKENHI grant as PI, enter the total research expenditure for the whole research period.)
			(千円) 1000 yen		
	For members other than KAKENHI PI, it is not necessary to enter the total research expenditure for the whole research period.				
			(千円) 1000 yen		
			(千円) 1000 yen		
	For grants acquired through internal applications at HU, enter the name of the research project (or a name that reflects the content of the fund, if no formal name exists)				
<p>If the exact amount for FY2021 is not available at the time of application, enter an approximate amount.</p> <p>To be entered by JSPS TokubetsuKenkyuin Research Fellows (SPD, PD, RPD), who expect to receive tokubetsukenkyuin grants during FY2021.</p> <p>However, the monthly amount received as kenkyuSoureiKin (research execution fund) should not be entered.</p>					
<p>If you are participating in the research project (such as MHLW Grant System, as a kenkyubuntansha type co-investigator) but without allocation of grant money, enter the relevant information in (1) or (2) (not in section (3) here).</p> <p>However, if you are a Kakenhi kenkyukyoryokusha type researcher, you should enter the information in (3) here.</p>					
			(千円) 1000 yen		
(3) その他の活動 (3) Other Activities					
合	計	Total		100 (%)	