

## V. Instructions for Grant Recipients

**Handling of a research project that is to be continued in FY2020 (hereafter referred to as “continued research project”)**

### ○ **Handling of Continued Research Projects Whose PI Fails to Submit the Report on the Research Achievements of his/her Other KAKENHI Project**

As is the case for new proposal submissions, no KAKENHI will be delivered to a researcher who fails to submit the Report on the Research Achievements at the end of the research period, without any justifiable reason. In such cases, a cancellation of the official grant decision and an order for refund of the grant may be issued. In addition, the information such as the name of the research institute of the said researcher may be made public.

Furthermore, if a researcher fails to submit the scheduled Report on the Research Achievements without any justifiable reason, then he/she may be ordered to suspend the spending of his/her other KAKENHI grant(s) for the same fiscal year.

### ○ **Completion of Research Ethics Education Coursework, etc.**

The PI should check with the administrative section of his/her institution about the rules concerning the research ethics education coursework, etc. For a continued research project upon the formal application for a grant delivery or request for payment in every fiscal year, it shall be confirmed through the electronic application system whether the PI and Co-I(s) have taken the research ethics education coursework, etc.

In case that the PI intends to add a new Co-Investigator to the continued project in FY2020, the PI has to obtain a consent to become a Co-Investigator from the researcher via the electronic application system in advance.

In this case, the Co-Investigator-to-be has to complete the followings prior to the formal application for grant delivery and report to the PI what he/she has done. (Or, in case the grant has been already delivered, he/she has to do the followings by the time the “application for approval of change of the Co-Investigator” is submitted by the PI to JSPS).

- Either to read through and learn the teaching materials by oneself concerning the research ethics education coursework such as “For the Sound Development of Science - The Attitude of a Conscientious Scientist” published by the Editorial Committee of the JSPS named “For the Sound Development of Science, the “e-Learning Course on Research Ethics [eL CoRE] or “APRIN e-learning program (eAPRIN)”, or to attend a lecture on research ethics conducted by research institutes based on “Guidelines for Responding to Misconduct in Research (Adopted by the MEXT on August 26, 2014)
- To understand thoroughly and to exercise the proper research practices in conducting their research, from amongst the contents of both the statement “Code of Conduct for Scientists -Revised Version-” by the Science Council of Japan and the booklet “For the Sound Development of Science -The Attitude of a Conscientious Scientist-” issued by the JSPS

## **VI. Instructions for Administrative Staff of Research Institution**

### **1. Sharing the Purpose and Aim of the KAKENHI System**

The KAKENHI provides a financial support for the creative and pioneering researches based on the original ideas of researchers.

Review of the submitted research proposals is conducted by the peer review process, in which researchers selected from their own community engage themselves in the assessment and reviewing of each research proposals on the basis of its scientific merit. The KAKENHI review process is based on the cooperation of more than 7,000 reviewers every year.

While the KAKENHI review process has been continually improved by, for instance, the introduction of new review methods from the FY2018 grant, the growing needs of KAKENHI have resulted in the number of new applications exceeding one hundred thousand in recent years. The workload on the researchers who are cooperating as reviewers is getting heavier along with the increase in the applicant number. Pressing concern is that if the burden on the reviewers keeps increasing to be excessive, it may seriously affect the reviewers' own research and educational activities, and may also result in deterioration of the quality of the review process. One of the possible factors for the recent increase in the application number may be attributed to the fact that some of research institutions seem to set the KAKENHI application as one of their organizational activity indicators. Application for the KAKENHI grant per se should be made on the basis of the initiative of the researchers. Therefore, such action on the part of research institutions as to set quota to the constituent researchers is undesirable.

All research institutions are requested to share and disseminate within themselves the primary purpose and aim of the KAKENHI system afresh.

### **2. Issues to Be Completed Beforehand by the “Research Institution”**

#### **(1) Requirements as a “Research Institution” and Procedures for Designation and Change**

In order to apply for the KAKENHI, a researcher needs to belong to a “Research Institution”.

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

- 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 MEXT (see Note as below)

Note:

In order to become a research institution, institutions not falling under 1) to 3) first need to receive the designation by the MEXT. Therefore, institutions should consult with the Scientific Research Aid Division of the Research Promotion Bureau of the MEXT.

Moreover, if changes in one of the following items have been scheduled, institutions that have received the designation by the MEXT and already have been recognized as a research institution should promptly report the content of these changes to the Scientific Research Aid Division of the Research Promotion Bureau of the MEXT.

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

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

< Requirements >

- 1) **The research institution must authorize the research project for which the KAKENHI is granted, as its proper activity.**
- 2) **The research institution must take responsibility for management and accounting of the KAKENHI delivered to its researcher staffs.**

**(2) Ascertainment of the Eligibility to Apply of the Affiliated Researcher**

Researchers who try to apply for KAKENHI should meet the requirements A) and B) below. Therefore, they should sufficiently verify these requirements with the research institution.

If JSPS Research Fellows (SPD, PD, RPD or CPD) meet the following application requirements at their research institutions which they register as their host research institutions, they can also apply only from the host research institutions for below research categories other than the “Grant-in-Aid for JSPS Fellows (JSPS Research Fellow)”. (Cf. “Table of Restriction on Parallel Grant Application/Receipt”.) In this case, the research institution should operate in a way that it recognizes applications where the research period exceeds the period of JSPS support.

- 1) Publicly Offered Research within Grant-in-Aid for Scientific Research on Innovative Areas (Research in a Proposed Research Area)
- 2) Grant-in-Aid for Scientific Research (B/C)
- 3) Grant-in-Aid for Challenging Research (Exploratory)
- 4) Grant-in-Aid for Early-Career Scientists
- 5) Fund for the Promotion of Joint International Research (Fostering Joint International Research (A))

Moreover, research institutions should bear in mind that JSPS Research Fellows (DC) and Overseas JSPS Fellows, graduate students or other students cannot apply, even if they hold a position in which they conduct research activities in the research institution to which they belong or in another research institution.

**Researchers who try to apply for KAKENHI should meet following Eligibility to Apply.**

(see page 75)

① **At the time of the proposal submission, a researcher needs to have been approved by his/her research institution as an eligible researcher who meets the Requirements 1) , 2) and 3) stated below, and have his/her Researcher Information properly registered in the e-Rad system as eligible for KAKENHI application.**

< Requirements >

1) **The applicant must be an individual belonging to a research institution with job assignment including research activity within the said institution.** (Whether the job is paid/unpaid, or full-time/part-time is irrelevant. It is not a prerequisite of eligibility that the research activity constitutes the main part of his/her job.)

2) **The applicant must be actually engaged in research activity in his/her research institution.** (Those who are only engaged in research assisting jobs are ineligible.)

3) **The applicant must not be a graduate student or any other categories of student.** (An individual who has a position in a research institution with research activity as his/her main job (e.g., university teaching staff, researcher belonging to a company, etc.), and holds a student status at the same time is ineligible.)

② **The individual must not be categorized as ineligible for grant acquisition in FY2020, as a penalty for his/her improper grant spending, fraudulent grant acquisition, or research misconduct.**

KAKENHI employee is generally bound by their employment contract to concentrate on the research work relevant to the employment-related work specified in his/her employment contracts. Therefore, such a KAKENHI employee cannot apply for his/her own KAKENHI project which is to be conducted within the working hours of his/her employment.

However, provided that he/she can clearly demarcate his/her own research hours from the working hours of employment and intends to conduct his/her own research project during the working hours on his/her own initiative, the KAKENHI employee can submit his/her own KAKENHI proposal, on the condition that the following points are verified by his/her research institution. In this case, he/she can apply as PI, or participate to other KAKENHI project(s) as Co-I.

- The KAKENHI employee is granted on his/her employment contract, to conduct research on his/her own initiative, besides the employment-related work.
- The employment-related work and the work devoted to the research on his/her own initiative are clearly demarcated in regard to the working hours and the effort.
- The KAKENHI employee is able to secure enough research hours (besides the working hours for his/her employment-related work) to be allotted to his/her own KAKENHI project.

### **(3) Confirmation of the Researcher Information Registered in the e-Rad System**

In addition to the Principal Investigator who tries to apply, the Co-Investigator who makes up the Project Members should be limited to whom the researcher information has been registered in

e-Rad as “Eligible to Apply for KAKENHI” when research institution submits (sends) the Research Proposal Document to MEXT.

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

For specifics on the method of registration, the research institution should verify the “Manual for Research Institutions to which the Researchers belong (for Research Institution Office Representatives and for Research Institution Office Workers)”.

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

However, since Research Proposal Document will not be accepted after the deadline for submission of Research Proposal Document, applicants should complete the registration (update) of the researcher information early, in order to have sufficient time to submit them.

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

#### **(Reference) On “Grant-in-Aid for Research Activity Start-up”**

The “Grant-in-Aid for Research Activity Start-up” is aimed at supporting researchers who are not able to apply for this round of call for proposals, such as those who are newly obtaining research position, and those who are returning from their leave of absence for childcare etc. after the regular submission deadline.

The FY2020 call for Proposals in this category is scheduled for March 2020, and the provisional conditions of the eligibility for application are as follows:

- ① An individual who could not submit a KAKENHI proposal, because he/she obtained the eligibility for KAKENHI application only after the application deadline (November 7, 2019) to the research categories (\*) of which the Call for Proposals is announced in September 2019 by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) and by the Japan Society for the Promotion of Science (JSPS).
- ② An individual who could not submit a KAKENHI proposal to the research categories (\*) for which the call for proposals is announced in September 2019 by MEXT and JSPS, because he/she was on a leave of absence for childcare etc. in FY2019.

(For the details, the Application Procedures for the “Grant-in-Aid for Research Activity Start-up” to be announced in March 2020 should be referred to.)

Since the registration to the e-Rad system is handled by the research institution, researchers who may come to fall under the category ① above, should act accordingly by contacting the administrative section of his/her prospective research institution.

(\*) Here, the relevant research categories are “Scientific Research on Innovative Areas”, “Specially Promoted Research”, “Scientific Research”, “Challenging Research” and “Early-Career Scientists” among the Grants-in-Aid for Scientific Research for FY2020.

(Note) JSPS Research Fellows (SPD, PD, RPD or CPD) are not eligible for application to the “Grant-in-Aid for Research Activity Start-up”, even if they satisfy the above application conditions.

#### **(4) Obtainment of an ID and a Password for the Researcher Belonging to the Research Institution**

In order to apply for KAKENHI, researchers should perform the procedures, by accessing the “Electronic Application System”, he/she should retain the ID and the Password for e-Rad.

For this reason, the research institution should verify whether researchers who are scheduling to apply have an ID and a Password, or not.

In the case where there is a researcher who has scheduled to apply and who has neither ID nor Password, the research institution should provide him or her with an ID or password in accordance with the following procedure.

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

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

Notes:

\*1: Please refer to “the How to Apply for the Registration on Research Institutions.” (URL: <https://www.e-rad.go.jp/organ/entry.html>) on the e-Rad website for information on downloading the ID and password for e-Rad.

\*2: Research institutions that already obtained an ID and a password for e-Rad issued do not need to obtain it again.

\*3: It is not necessary to obtain an ID and a password for e-Rad for each research category of the KAKENHI.

- 2) After obtaining an ID and a Password for use of the research institution, the administrative staff in the research institution should provide this ID and password to the researcher who is planning to apply as a Principal Investigator. The ID and password for each researcher is issued through registration of the researcher information in e-Rad. Please refer to the “Manual for Research Institutions to which the Researchers Belong” (the section on the Procedures for Researchers; for Research Institution Office Representatives and for Research Institution Office Workers) for information on the concrete way how to provide them.

Notes:

\*1: When providing the login ID and password, research institutions must make it known to researchers that they must strictly protect the login ID and password in order to prevent them from being disclosed to others.

\*2: Once the ID and the password for the researcher have been provided they can be used, even if the research institution changes.

\*3: Please be sure to obtain and use the latest version of the Operation Manual.

**(5) Submission of the “Self-Assessment Checklist on the Improvement of the System” based on the “Guidelines on the Management and Audit of Public Research Funds at**

## **Research Institutions (Implementation Standards)”**

When implementing the adopted research projects with KAKENHI grant the research institutions must comply with the content of the “Guidelines on the Management and Audit of Public Research Funds at Research Institutions (Implementation Standards)” (Adopted by the Minister of MEXT. Revised on February 18, 2014.), they must set up a system of the management and audit for implementing the public research funds and report the state of implementation and other matters by submitting a “Self-Assessment Checklist on the Improvement of the System based on the Guidelines on the Management and Audit of Public Research Funds at Research Institutions (Implementation Standards)” (hereinafter referred to as “Self-Assessment Checklist on the Improvement of the System”).

Therefore, “those research institutions which Principal Investigators and Co-Investigators applying for KAKENHI in FY2020 belong to” and “those research institutions which Principal Investigators and Co-Investigators continuing research projects using KAKENHI are scheduled to belong to in FY2020” **must submit in accordance with the procedure and forms posted on the MEXT website (URL: [http://www.mext.go.jp/a\\_menu/kansa/houkoku/1324571.htm](http://www.mext.go.jp/a_menu/kansa/houkoku/1324571.htm)) the “Self-Assessment Checklist on the Improvement of the System” to the Office of Research Funding Administration, Promotion Policy Division, Research Promotion Bureau of the MEXT by December 2, 2019 (Monday) via e-Rad.** If the “Self-Assessment Checklist on the Improvement of the System” has already been submitted in April 2019 or later, it is not necessary to submit it again.

**Researchers affiliated to a research institution which has not turned in the said checklist cannot receive the official grant decision.**

Note: When using e-Rad, ID and Password for the research institution are necessary.

< Inquiries >

(Concerning forms of the guidelines and submission)

Office of Research Funding Administration, Promotion Policy Division, Research Promotion Bureau, the MEXT

e-mail: [kenkyuhi@mext.go.jp](mailto:kenkyuhi@mext.go.jp)

URL: [http://www.mext.go.jp/a\\_menu/kansa/houkoku/1324571.htm](http://www.mext.go.jp/a_menu/kansa/houkoku/1324571.htm)

(Concerning the research institute e-Rad registration)

Helpdesk of the Cross-ministerial Research and Development management system of the MEXT

Telephone: 0570-066-877 (Navi Dial)

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

URL: <https://www.e-rad.go.jp/organ/entry.html>

(Time period when e-Rad is available for use)

(Monday to Sunday) 0:00 - 24:00 (in operation 24 hours a day, 365 days a year)

However, even during the above-mentioned time period, it may happen that the operation of e-Rad is disrupted or suspended, when maintenance and inspection is being carried out. If the operation is scheduled to be disrupted or suspended, this will be announced beforehand on the Portal Site.

**(6) Submission of the “Checklist Pertaining to the Current Status” based on the “Guidelines for Responding to Research Misconduct”**

When implementing the research projects with KAKENHI grant the research institutions must comply with the content of the “Guidelines for Responding to Research Misconduct” (Adopted by the Minister of MEXT on 26 August 2014) and submit a “Checklist Pertaining to the Current Status based on the Guidelines for Responding to Research Misconduct” (hereinafter referred to as “Checklist on the Research Misconduct”).

Therefore “those research institutions which the Principal Investigators and Co-investigators applying for KAKENHI in FY2020 belong to” and “those research institutions which Principal Investigators and Co-Investigators continuing research projects using KAKENHI are scheduled to belong to in FY2020” **must submit in accordance with the procedure and forms posted on the MEXT website (URL: [http://www.mext.go.jp/a\\_menu/jinzai/fusei/1415332.htm](http://www.mext.go.jp/a_menu/jinzai/fusei/1415332.htm)) the “Checklist on the Research Misconduct” to the Office for Research Integrity Promotion, Human Resources Policy Division, Science and Technology Policy Bureau of the MEXT by September 30, 2019 (Monday) via e-Rad.** If the “Checklist on the Research Misconduct” has already been submitted in April 2019 or later it is not necessary to submit it again.

**Researchers affiliated to a research institution which has not turned in the said checklist cannot receive the official grant decision.**

Note: Please note that while the “Checklist on the Research Misconduct” is the same in using e-Rad for submission with the “Self-Assessment Checklist on the Improvement of the System”, the submission destination is different. Both checklists must be submitted.

Note: When using e-Rad, you need an ID and a Password for use of the research institution.

< Inquiries >

(Concerning the format and submission of Guidelines on Fraudulent Acts)

\* Differs from the contact information for public research expenses.

Office for Promotion of Correct Research, Knowledge Infrastructure Policy Division,  
Science and Technology Policy Bureau, the MEXT

e-mail: [kiban@mext.go.jp](mailto:kiban@mext.go.jp)

URL : [http://www.mext.go.jp/a\\_menu/jinzai/fusei/index.htm](http://www.mext.go.jp/a_menu/jinzai/fusei/index.htm)

(Concerning the research institute e-Rad registration)

The Helpdesk of the Cross-ministerial Research and Development management system of the MEXT



Telephone: 0570-066-877 (Navi Dial)

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

URL: <https://www.e-rad.go.jp/organ/entry.html>

(Time period when e-Rad is available for use)

(Monday to Sunday) 0:00 - 24:00 (in operation 24 hours a day, 365 days a year)

However, even during the above-mentioned time period, the operation of e-Rad may be disrupted or suspended, when maintenance and inspection is being carried out. If the operation is scheduled to be disrupted or suspended, this will be announced beforehand on the Portal Site.

### **(7) Implementation of a Research Ethics Education Course based on the “Guidelines on Research Misconduct”, etc.**

Principal Investigators and Co-Investigators taking part in a new research project have to complete followings before the formal application for grant delivery.

- Either to read through and learn teaching materials such as a textbook “For the Sound Development of Science -The Attitude of a Conscientious Scientist-” (Editing Committee “For the Sound Development of Science”, JSPS), the “e-Learning Course on Research Ethics (eL CoRE)”, the “APRIN e-learning program (eAPRIN)”, etc., or to attend a lecture on research ethics conducted by research institutes based on the “Guidelines for Responding to Misconduct in Research (issued on August 26, 2014 by the MEXT)”
- To understand thoroughly and to exercise the proper research practices in conducting their research, from amongst the contents of both the statement “Code of Conduct for Scientists -Revised Version-” by the Science Council of Japan and the booklet “For the Sound Development of Science -The Attitude of a Conscientious Scientist-” issued by the JSPS

To that end, each research institution is requested to disseminate broadly what the researchers should consider, in conducting of their researches as well as carrying out an Ethics Education in Research Training Session based on the “Guidelines for Responding to Research Misconduct in Research”

### **(8) On the Submission of the Report on the Research Achievements**

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

- No KAKENHI will be delivered to researchers who do not submit the report on the research achievements at the end of the research period, without good reason. Moreover, it may happen that the official grant decision to the researcher is cancelled, that an order to return the grant is issued, or that the information such as the name of the research institute said researcher

belongs to is disclosed in public.

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

### **(9) Obtaining Sufficient Knowledge about the Contents of the Application Procedures**

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

Moreover, the Application Procedures are available on the section Grants-in-Aid for Scientific Research of the MEXT website.

URL: [http://www.mext.go.jp/a\\_menu/shinkou/hojyo/boshu/1351544.htm](http://www.mext.go.jp/a_menu/shinkou/hojyo/boshu/1351544.htm)

## **3. Issues that Need to Be Verified When Compiling the Application Forms (Preparing the Research Proposal Document)**

The contents of the Research Proposal Document should be verified in each research institution, and all the Research Proposal Document should be submitted to MEXT together. When doing so, special attention should be paid to the following points.

### **(1) Ascertainment of the Eligibility for KAKENHI Application**

**It should be verified whether the Principal Investigator and the Co-Investigator(s) listed in the Research Proposal Document are researchers who meet the requirements that are stipulated in the Application Procedures (see page 75), and also whether the researcher information is registered in e-Rad as “Eligible to Apply for KAKENHI”.**

Moreover, it should be verified certainly that they must not be categorized as ineligible for grant acquisition in FY2020 in KAKENHI and other competitive funding, as a penalty for their improper grant spending, fraudulent grant acquisition, or research misconduct.

### **(2) Confirmation of the Researcher Information Registered in the e-Rad System**

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

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

### **(3) Verification with the Principal Investigator**

The research institution should verify whether the Principal Investigator and the Co-Investigator(s) who have been listed in the Research Proposal Document have completed the Research Proposal Document, after confirming the description in the column “III. Call for Proposals” in this Application Procedures for Grants-in-Aid for Scientific Research.

### **(4) The Process of the Participation of Co-Investigator in Project Members**

A research institution should conduct the process such as giving a consent with regard to the researcher of the research institution becoming a Co-Investigator via the electronic application system.

When the information on the Co-Investigator-to-be is presented to the research institution to which the Co-Investigator-to-be belongs via the electronic application system after the researcher who was requested to become a Co-Investigator from the Principal Investigator gave a consent to do so in the electronic application system, then the research institution need to give a consent to do so, etc. as well.

Since the Principal Investigator cannot submit (send) the Research Proposal Document to his/her research institution until the Co-Investigators-to-be' research institution gives a consent to do so, etc., the research institution should proceed with the consent process in time for the deadline of the submission.

- \* Please refer to the Kakenhi (Grants-in-Aid for Scientific Research) Electronic Application System Operation Manual (URL: [http://www.shinsei.jsps.go.jp/kaken/topkakenhi/shinsei\\_ka.html](http://www.shinsei.jsps.go.jp/kaken/topkakenhi/shinsei_ka.html)) for the detail information such as operating environment, operating method, and so on.

**(5) Verification of the Application Forms**

It should be verified whether the application format is in conformity with the prescribed format. As for the forms to be uploaded, in particular, verify not only the total number of pages but also the numbers of pages instructed for each column is met.

Moreover, the format and other matters of the application forms for each research category are as follows.

Research category	Research Proposal Document		
	Items to be entered in the Website (First part)	Forms to be uploaded (File ID)	Items to be entered in the Website (Second part)
Grant-in-Aid for Scientific Research on Innovative Areas(Research in a proposed research area) <b>"Continuous Research Areas"</b>	To be entered in the electronic application system (Title of research project, Fundamental data on the research project such as total budget, Data on the project members, etc.)	S-8	To be entered in the electronic application system (Title of research project, Fundamental data on the research project such as total budget, Data on the project members, etc.)
Grant-in-Aid for Scientific Research on Innovative Areas(Research in a proposed research area) <b>"Finished Research Areas"</b>		S-9	

#### **4. Submission and Other Matters of the Research Proposal Document**

##### **(Preparing the Research Proposal Document)**

##### **(1) Case of Application for "Continuous Research Areas" and "Finished Areas" in "Grants-in-Aid for Scientific Research on Innovative Areas"**

- 1) The research institution should access the “Electronic Application System”, using the ID and the password for e-Rad, obtain the information of the Research Proposal Documents (PDF files) that the Principal Investigators prepared, and verify their contents and other matters.
- 2) The research institution should perform the “approval” process on all the Research Proposal Documents (PDF files) that have no mistakes in their contents. (It should submit (send) the Research Proposal Documents (PDF files) to MEXT.)  
Moreover, it is not possible to make corrections or other modifications to the Research Proposal Document (PDF file) for which the research institution has already performed the “approval” process.

**The deadline for the submission of the Research Proposal Documents is:**

**November 7, 2019 (Thursday), 4:30 pm (This deadline should be strictly observed.)**

**Note 1: Research Proposal Document that is submitted after this deadline will not be accepted for any reason. Therefore, the documents should be submitted well in advance.**

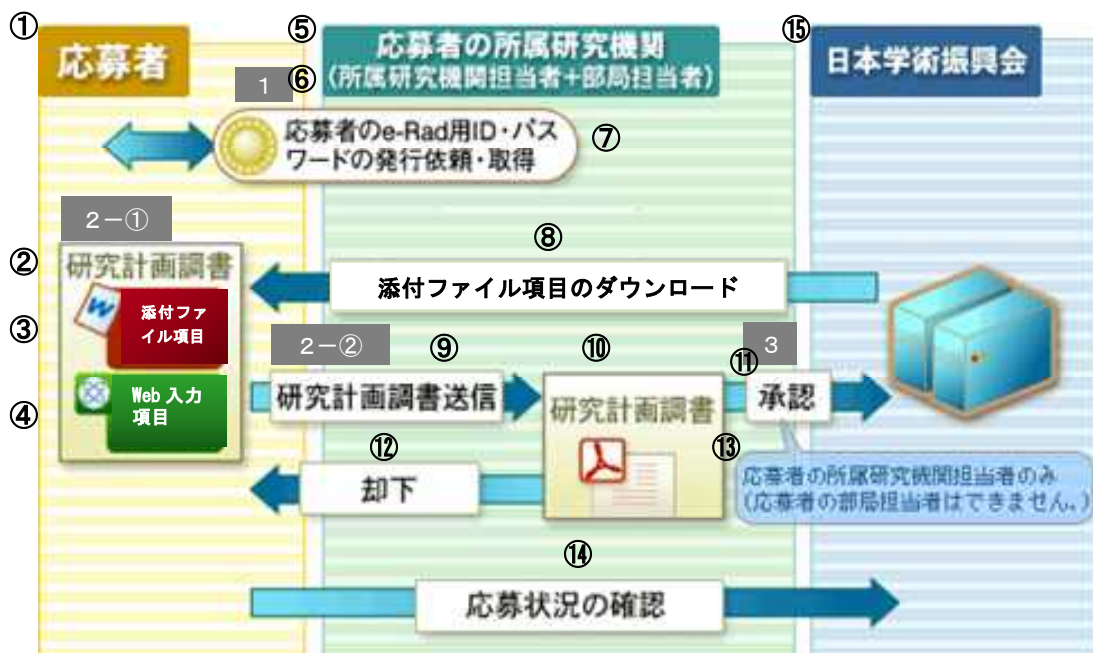
**Note 2: After the submission of the application documents, it is not possible to make corrections or to re-submit them.**

#### **Outline of the Electronic Application Procedures**

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

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

URL: [https://www-shinsei.jsps.go.jp/kaken/topkakenhi/shinsei\\_ka.html](https://www-shinsei.jsps.go.jp/kaken/topkakenhi/shinsei_ka.html)



- ① Applicant
- ② Research Proposal Document
- ③ Forms to be uploaded as an attached file
- ④ Items to be entered in the website
- ⑤ The research institution to which the applicant belongs
- ⑥ Administrative staff in the research institution + Administrative staff in the department
- ⑦ Request for issue and acquisition of the applicant's ID and password for e-Rad
- ⑧ Downloading of the forms to be uploaded as an attached file
- ⑨ Sending the Research Proposal Document
- ⑩ Research Proposal Document
- ⑪ Approval
- ⑫ Rejection
- ⑬ Only the administrative staff in the research institution to which the applicant belongs (The administrative staff in the department of the applicant cannot make an approval.)
- ⑭ Confirmation of the state of the application
- ⑮ JSPS

**[The administrative staff in the research institution to which the applicant (Principal Investigator) belongs]**

- 1 The administrative staff in 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”, using the ID and the password he or she received, and prepares the Research Proposal Document (PDF file), by entering the items to be entered in the website and by uploading the forms to be uploaded as an attached file.

- 2 - (2) If there are no mistakes in the Research Proposal Document (PDF file) the applicant prepared, he or she should submit the Research Proposal Document (PDF file) to the administrative staff in the research institution to which he or she belongs, by performing the “completed and submission” process.

**[The administrative staff in the research institution to which the applicant (Principal Investigator) belongs]**

- 3 By approving the Research Proposal Document (PDF file) the administrative staff in the research institution to which the applicant belongs submits (sends) it to JSPS. Moreover, if the Research Proposal Document (PDF file) that the applicant submitted is not approved due to mistakes or other reasons, it will be rejected and the applicant will be requested to make corrections.

## VII. Other Relevant Issues

### 1. Concerning Support through Grant-in-Aid for Scientific Research on Innovative Areas - Platforms for Advanced Technologies and Research Resources

In order to respond effectively to the diverse needs of researchers of KAKENHI research projects, the Grant-in-Aid for Scientific Research on Innovative Areas—Platforms for Advanced Technologies and Research Resources forms a resource and technical support platform for research (hereinafter referred to as Platform) under the close cooperation of relevant institutes with inter-university research institutes and Joint Usage / Research Centers as core institutes. Together with providing technical support towards individual research projects and providing advanced problem solving methods to researchers, it provides an integral promotion of cooperation between researchers, interdisciplinary integration, and human resources development.

Applications for technical support etc. are open for each of the platforms below where it concerns research projects carried out through KAKENHI. Researchers desiring technical support etc. from each of the platforms are requested to check their respective websites etc. and actively apply.

\* “Technical Support etc.” points to the sharing of equipment with researchers from a wide range of research fields, technical support and the collecting, conservation, and providing of resources (documents, data, experiment samples, specimen, etc.), and support for conservation techniques etc.

“Advanced Technology Support Platform Program” has scientific value and an advanced nature through the combination of multiple facilities and equipment, and provides shared use of equipment and technical support to researchers in a wide variety of research areas.

“Research Platform Resource Support Program” Collects, conserves, and supplies the resources that are the basis of research (documents, data, experiment samples, specimen, etc.) and also conducts support for conservation techniques etc.

Area	Platform Name	Core Institution	Support Function
Advanced Technology Support Platform Program	Platform of Advanced Bioimaging Support (*)	National Institute for Physiological Sciences National Institute for Basic Biology	Advanced technical support and user training for : <ul style="list-style-type: none"> <li>· Light microscopy</li> <li>· Electron microscopy</li> <li>· Magnetic resonance imaging</li> <li>· Imaging analysis</li> </ul>
	Platform of Advanced Animal Model Support(*)	The Institute of Medical Science The University of Tokyo	Support for constructing animal models, Support for pathological analysis, Support for physiological analysis, and Support for molecular profiling
	Platform for Advanced Genome Science (*)	National Institute of Genetics	Advanced genome analysis (de novo genome sequencing; re-sequencing for genome variation detection; analysis of transcriptome, epigenome and metagenome; ultra-high sensitivity analysis for single cells, single molecules, etc.; big-data analysis and advanced bioinformatics; by using of the latest facilities and technologies)



Area	Platform Name	Core Institution	Support Function
Research Platform Resource Support Program	Platform for Integration and Sophistication of Image Information on Area Studies	National Museum of Ethnology (Note)	Digital Picture Library for Area Studies
	Supply Platform of Short-lived Radioisotopes for Fundamental Research	Research Center for Nuclear Physics, Osaka University (Note)	Supply short-lived radioisotopes produced by accelerators for fundamental research in various scientific fields.
	Platform of Supporting Cohort Study and Biospecimen Analysis (*)	The Institute of Medical Science The University of Tokyo	Support for cohort study using bioresources, Support for maintaining and utilizing human brain resources, and Support using biospecimen

Also, Committee on Promoting Collaboration in Life Sciences that functions as a general information point and coordinator across the 4 platforms marked with an (\*) above is set up. (Core Institution: The Institute of Medical Science, The University of Tokyo)

Each platform's website can be found in the link collection below:

URL : [http://www.mext.go.jp/a\\_menu/shinkou/hojyo/1367903.htm](http://www.mext.go.jp/a_menu/shinkou/hojyo/1367903.htm)

## **2. Concerning the Promotion of the Shared Use of Research Equipment**

In “Reform of Competitive Research Funds: Towards a Sustained Output of Research Achievements (Interim Summary)” (June 24, 2015, Competitive Research Fund Reform Review meeting) it was decided that, when the original research objectives were fully achieved, versatile and large equipment should, in principle, be shared.

Furthermore, in “On the Management of Research Organizations and the Introduction of a New, Unified System for the Shared Use of Research Equipment” (November, 2015, Science and Technology Council Advanced Research Foundation Subcommittee), the establishment and operation of a “research equipment sharing system on the research organization level” (hereinafter referred to as equipment sharing system) is demanded of universities and national research and development agencies etc.

With this in mind, when purchasing equipment with competitive research funds, please actively work on the use of equipment purchased with other research funds, and the purchase and shared use of equipment from several research funds where it concerns especially large and versatile equipment. Please also make ensure that sharing is possible within the rules of the said competitive research funds, and no obstacle is made to the execution of the research project.

○“On the Management of Research Organizations and the Introduction of a New, Unified System for the Shared Use of Research Equipment”

(November 25, 2015 Science and Technology Council Advanced Research Foundation Subcommittee)

URL: [http://www.mext.go.jp/b\\_menu/shingi/gijyutu/gijyutu17/houkoku/1366220.htm](http://www.mext.go.jp/b_menu/shingi/gijyutu/gijyutu17/houkoku/1366220.htm)

○“A Reform of Competitive Research Funds: Towards a Sustained Output of Research Achievements (Interim Summary)”

(June 24, 2015 Competitive Research Fund Reform Review meeting)

URL: [http://www.mext.go.jp/b\\_menu/shingi/chousa/shinkou/039/gaiyou/1359306.htm](http://www.mext.go.jp/b_menu/shingi/chousa/shinkou/039/gaiyou/1359306.htm)

○ On the unification of usage rules for competitive funds

(Revised version of the March 31, 2015 agreement of the related ministries liaison conference on competitive funds on April 20, 2017)

URL: [http://www8.cao.go.jp/cstp/compefund/shishin3\\_siyouuruu.pdf](http://www8.cao.go.jp/cstp/compefund/shishin3_siyouuruu.pdf)

### **3. On the Promotion of the ‘Dialogue on Science and Technology with Citizens’**

#### **(A Basic Approach Policy)**

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

For KAKENHI, there is the question “Are you positively trying to publicize and disseminate the research content and research achievements?”, especially in the research progress assessment of Specially Promoted Research, for which researchers receive a relatively high amount of research funds, and the interim assessment of Scientific Research on Innovative Areas (Research in a proposed research area). Therefore, based on the above-mentioned Basic Approach Policy, researchers should disseminate the achievements of research funded with KAKENHI to society and citizens in an even more positive way.

### **4. Cooperation with the National Bioscience Database Center**

The National Bioscience Database Center (URL: <https://biosciencedbc.jp/>) has been established in the Japan Science and Technology Agency (JST, a National Research and Development Agency), in order to promote the integrated use of databases in the area of life science that have been created by various research institutions and other institutions.

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

connected to basic research and industrial applied research.

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

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

Furthermore, the National Bioscience Database Center has developed guidelines for data on humans, in order to promote the sharing and use of data related to research in the area of life science, with due considerations to the protection of personal information.

NBDC human data sharing guidelines

URL: <https://humandbs.biosciencedbc.jp/guidelines/>

< Inquiries >

Japan Science and Technology Agency, National Bioscience Database Center

Telephone: 03-5214-8491

## **5. On the Inter-University Bio-Backup Project**

The purpose of the Inter-University Bio-Backup Project is to “back up” biological genetic resources, which are indispensable research resources in various research areas, and to avoid damage or loss of biological genetic resources due to unforeseen accidents, disasters, etc. The project newly commenced from 2012.

In the National Institute for Basic Biology of the Inter-University Research Institute Corporation National Institutes of Natural Sciences, which is the core of this project, the IBBP Center (Inter-University Bio-Backup Project for Basic Biology) (URL: <http://www.nibb.ac.jp/ibbp/>) has been established as a backup center for biological genetic resources. It is equipped with the newest equipment necessary for the backup of biological genetic resources.

Any researcher who belongs to a university or a research institution may apply for storage. Biological genetic resources that can be stored in IBBP are samples that can be proliferated (amplified) or cryopreserved (for vegetable seeds, the refrigeration or deep-freezing preservation condition needs to be definite), and being not pathogenic is also a condition. Since backup is provided free of charge, researchers should make use of IBBP.

Any researcher who belongs to a university or a research institution may apply for storage. Biological genetic resources that can be stored in IBBP are samples that can be proliferated (amplified) or cryopreserved (for vegetable seeds, the refrigeration or deep-freezing preservation condition needs to be definite), and being not pathogenic is also a condition. Since backup is provided free of charge, researchers should make use of IBBP.

< Inquiries >

Inter-University Research Institute Corporation National Institutes of Natural Sciences, IBBP Center,  
Executive Office

Telephone: 0564-59-5930, 5931

## **6. National BioResource Project**

NBRP (National BioResource Project) strategically collects and preserves important bioresources that are the basic and foundation of life science research at the core bases of this project and provides them to universities and research institutes, thereby contributing to the development of life science research in Japan. In the future, in order to contribute to the development of life science research in Japan, it is necessary to continually collect useful bioresources.

For that matter, please deposit (\*) available bioresources among bioresources developed by Grant-in-Aid for Scientific Research (limited to the bioresource targeted for NBRP). Please cooperate with the NBRP collecting activities.

It is recommended to utilize the already improved resources of NBRP from the viewpoint such as efficient implementation of research.

(\*) Deposit: This is a procedure to approve the use (preservation / provision) in this project without transferring the various rights related to the resource. By specifying specific provision conditions in the deposit agreement, you can add usage conditions such as restrictions on usage and quotation of articles to users.

List of NBRP core bases representative agencies

URL: <http://www.nbrp.jp/center/center.jsp>

< Inquiries >

Bio-Bank Division, Japan Medical Research and Development Organization Basic Research Division

Telephone: 03-6870-2228

## **7. Security Export Control Policy**

In Japan, export controls (\*) are carried out under the Foreign Exchange and Foreign Trade Act (Act No. 228 of 1949) (hereinafter referred to as “Foreign Exchange Law”). Therefore, in principle, in order to export (provide) cargo and technology regulated by the Foreign Exchange Law, it is necessary to obtain permission of the Minister of Economy, Trade and Industry.

(\*) Japan's Security Export Control System established on the basis of international agreements mainly consists of ① “List rules” which require permission of the Minister of Economy, Trade and Industry in principle when exporting cargo or providing technology that carry specifications

and/or functions higher than certain levels, such as carbon fiber and numerically controlled machine tool etc., and ② “Catch-all regulation” which requires permission of the Minister of Economy, Trade and Industry when exporting cargo or providing technology that are not subject to regulation under the List rules but do fall under certain regulatory requirements (application requirements, consumer requirements and/or informed requirements).

Not only export of cargo but also provision of technology will be subject to the regulation by the Foreign Exchange Law. When providing a “List rules” technology to nonresidents or providing it in a foreign country, prior permission for provision is required. “Provision of technology” includes not only providing technical information such as design drawings, specifications, manuals, samples, and prototypes via storage media such as paper, mail, CD, USB memory, but also providing work knowledge and technical assistance at seminars through technical instruction, skill training etc. Researchers should be aware that there may be case in which technologies subject to regulation by the Foreign Exchange Law are involved when mentoring foreign students and/or joint research activities with oversea groups.

For this reason, research institutions are asked to take systematic measures to ensure that in implementation their various research activities, including research projects funded with KAKENHI, WMD technologies are not transferred to WMD developers, terrorist organizations, or people carrying out other dubious activities by way of their participation in research that can be converted to military purposes.

< Reference > Stature to strengthen the export control system in universities and public research institutions (proposed)

[http://www.mext.go.jp/b\\_menu/shingi/gijyutu/gijyutu8/toushin/06082811/015/001.htm](http://www.mext.go.jp/b_menu/shingi/gijyutu/gijyutu8/toushin/06082811/015/001.htm)

As for the details on “Security Export Control Policy”, please see as below.

Ministry of Economy, Trade and Industry: Security Trade Control (General) Division

URL: <http://www.meti.go.jp/policy/anpo/>

< Inquiries >

Ministry of Economy, Trade and Industry, Trade and Economic Cooperation Bureau, Trade Management Department, Security Trade Control Division

Telephone: 03-3501-2800

FAX: 03-3501-0996

## Attached Table 7

### Grants-in-Aid for Scientific Research-KAKENHI- “Review Section Table”

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○The Review Section Table (Overview)	127
○The Review Section Table (Table for Basic Section)	134
○The Review Section Table (Table for Medium-sized and Broad Sections)	159

December 22, 2016

Subdivision on Research Grant Screening Section of the Academic Deliberation  
in the Subdivision on Science, Council for Science and Technology

### **About the Review Section Table**

- The Review Section Table is classified by sections for the KAKENHI's review criteria. Applicants should select a review section that is most suitable for their own research proposal.
- There are three review sections: Basic, Medium-sized and Broad. The Review Section Table contains 1) Overview, 2) Table for Basic Section, 3) Table for Medium-sized and Broad Sections. Looking at the Overview, the applicants can understand an overall picture of sections. In addition, check the each Review Section Table for the detailed contents of each section and select a review section for their research proposal.
- The Basic Section is the fundamental unit. The Basic Section applies to “Grant-in-Aid for Scientific Research (B/C) (application section “General”)” and for “Grant-in-Aid for Early-Career Scientists”. Each item of Basic Section offers some examples related research contents. They help applicants understand the concrete contents. However, it does not exclude proposal of contents other than if applicants' contents are not included the examples.
- The Medium-sized Section applies to “Grant-in-Aid for Scientific Research (A) (application section “General”)” and “Grant-in-Aid for Challenging Research (Pioneering/Exploratory)”. Several Basic Sections are attached to indicate the scope of review for the Middle-sized Section. However, it does not exclude proposal of contents other than the Basic Sections included in the Middle-sized Section. In addition, some items of Basic Sections belong to multiple Middle-sized Sections, so applicants can select a Middle-sized Section that seems to be most suitable for their own research proposal.
- The Broad Section applies to “Grant-in-Aid for Scientific Research (S)”. Several Medium-sized Sections are attached to indicate the scope of review of the Broad Section. However, it does not exclude proposal of contents other than the Medium-sized Sections included in the Broad Section. Some items of Medium-sized Sections belong to several Broad Sections, so applicants can select a Broad Section that seems to be most suitable for their own research proposal.
- To respond flexibly to research diversity in the review process, application in the Basic, Medium-sized and Broad Sections is made in the following formats: Basic Section: “○○ -related”; Medium-sized Section: “○○ and related fields,” and Broad Section: listed alphabetically.

## The Review Section Table (Overview)

Broad Section A	
Medium-sized Section 1: Philosophy, art, and related fields	
Basic Section	
01010	Philosophy and ethics-related
01020	Chinese philosophy, Indian philosophy and Buddhist philosophy-related
01030	Religious studies-related
01040	History of thought-related
01050	Aesthetics and art studies-related
01060	History of arts-related
01070	Theory of art practice-related
01080	Sociology of science, history of science and technology-related
90010	Design-related
Medium-sized Section 2: Literature, linguistics, and related fields	
Basic Section	
02010	Japanese literature-related
02020	Chinese literature-related
02030	English literature and literature in the English language-related
02040	European literature-related
02050	Literature in general-related
02060	Linguistics-related
02070	Japanese linguistics-related
02080	English linguistics-related
02090	Japanese language education-related
02100	Foreign language education-related
90020	Library and information science, humanistic and social informatics-related
Medium-sized Section 3: History, archaeology, museology, and related fields	
Basic Section	
03010	Historical studies in general-related
03020	Japanese history-related
03030	History of Asia and Africa-related
03040	History of Europe and America-related
03050	Archaeology-related
03060	Cultural assets study-related
03070	Museology-related
Medium-sized Section 4: Geography, cultural anthropology, folklore, and related fields	
Basic Section	
04010	Geography-related
04020	Human geography-related
04030	Cultural anthropology and folklore-related
80010	Area studies-related
80020	Tourism studies-related
80030	Gender studies-related

Broad Section A (continued)	
Medium-sized Section 5 : Law and related fields	
Basic Section	
05010	Legal theory and history-related
05020	Public law-related
05030	International law-related
05040	Social law-related
05050	Criminal law-related
05060	Civil law-related
05070	New fields of law-related
Medium-sized Section 6: Political science and related fields	
Basic Section	
06010	Politics-related
06020	International relations-related
80010	Area studies-related
80030	Gender studies-related
Medium-sized Section 7 : Economics, business administration, and related fields	
Basic Section	
07010	Economic theory-related
07020	Economic doctrines and economic thought-related
07030	Economic statistics-related
07040	Economic policy-related
07050	Public economics and labor economics-related
07060	Money and finance-related
07070	Economic history-related
07080	Business administration-related
07090	Commerce-related
07100	Accounting-related
80020	Tourism studies-related
Medium-sized Section 8 : Sociology and related fields	
Basic Section	
08010	Sociology-related
08020	Social welfare-related
08030	Family and consumer sciences, and culture and living-related
80020	Tourism studies-related
80030	Gender studies-related



Broad Section A (continued)	
Medium-sized Section 9 : Education and related fields	
Basic Section	
09010	Education-related
09020	Sociology of education-related
09030	Childhood and nursery/pre-school education-related
09040	Education on school subjects and primary/ secondary education-related
09050	Tertiary education-related
09060	Special needs education-related
09070	Educational technology-related
09080	Science education-related
02090	Japanese language education-related
02100	Foreign language education-related
Medium-sized Section 10 : Psychology and related fields	
Basic Section	
10010	Social psychology-related
10020	Educational psychology-related
10030	Clinical psychology-related
10040	Experimental psychology-related
90030	Cognitive science-related

Broad Section B	
Medium-sized Section 11 : Algebra, geometry, and related fields	
Basic Section	
11010	Algebra-related
11020	Geometry-related
Medium-sized Section 12 : Analysis, applied mathematics, and related fields	
Basic Section	
12010	Basic analysis-related
12020	Mathematical analysis-related
12030	Basic mathematics-related
12040	Applied mathematics and statistics-related
Medium-sized Section 13 : Condensed matter physics and related fields	
Basic Section	
13010	Mathematical physics and fundamental theory of condensed matter physics-related
13020	Semiconductors, optical properties of condensed matter and atomic physics-related
13030	Magnetism, superconductivity and strongly correlated systems-related
13040	Biophysics, chemical physics and soft matter physics-related
Medium-sized Section 14 : Plasma science and related fields	
Basic Section	
14010	Fundamental plasma-related
14020	Nuclear fusion-related
14030	Applied plasma science-related
80040	Quantum beam science-related
Medium-sized Section 15 : Particle-, nuclear-, astro-physics, and related fields	
Basic Section	
80040	Quantum beam science-related
15010	Theoretical studies related to particle-, nuclear-, cosmic ray and astro-physics
15020	Experimental studies related to particle-, nuclear-, cosmic ray and astro-physics
Medium-sized Section 16 : Astronomy and related fields	
Basic Section	
16010	Astronomy-related
Medium-sized Section 17 : Earth and planetary science and related fields	
Basic Section	
17010	Space and planetary sciences-related
17020	Atmospheric and hydrospheric sciences-related
17030	Human geosciences-related
17040	Solid earth sciences-related
17050	Biogeosciences-related

Broad Section C	
Medium-sized Section 18: Mechanics of materials, production engineering, design engineering, and related fields	
Basic Section	
18010	Mechanics of materials and materials-related
18020	Manufacturing and production engineering-related
18030	Design engineering-related
18040	Machine elements and tribology-related
Medium-sized Section 19: Fluid engineering, thermal engineering, and related fields	
Basic Section	
19010	Fluid engineering-related
19020	Thermal engineering-related
Medium-sized Section 20: Mechanical dynamics, robotics, and related fields	
Basic Section	
20010	Mechanics and mechatronics-related
20020	Robotics and intelligent system-related
Medium-sized Section 21: Electrical and electronic engineering and related fields	
Basic Section	
21010	Power engineering-related
21020	Communication and network engineering-related
21030	Measurement engineering-related
21040	Control and system engineering-related
21050	Electric and electronic materials-related
21060	Electron device and electronic equipment-related
Medium-sized Section 22: Civil engineering and related fields	
Basic Section	
22010	Civil engineering material, execution and construction management-related
22020	Structure engineering and earthquake engineering-related
22030	Geotechnical engineering-related
22040	Hydroengineering-related
22050	Civil engineering plan and transportation engineering-related
22060	Environmental systems for civil engineering-related
Medium-sized Section 23: Architecture, building engineering, and related fields	
Basic Section	
23010	Building structures and materials-related
23020	Architectural environment and building equipment-related
23030	Architectural planning and city planning-related
23040	Architectural history and design-related
90010	Design-related
Medium-sized Section 24: Aerospace engineering, marine and maritime engineering, and related fields	
Basic Section	
24010	Aerospace engineering-related
24020	Marine engineering-related
Medium-sized Section 25: Social systems engineering, safety engineering, disaster prevention engineering, and related fields	
Basic Section	
25010	Social systems engineering-related
25020	Safety engineering-related
25030	Disaster prevention engineering-related

Broad Section D	
Medium-sized Section 26: Materials engineering and related fields	
Basic Section	
26010	Metallic material properties-related
26020	Inorganic materials and properties-related
26030	Composite materials and interfaces-related
26040	Structural materials and functional materials-related
26050	Material processing and microstructure control-related
26060	Metals production and resources production-related
Medium-sized Section 27: Chemical engineering and related fields	
Basic Section	
27010	Transport phenomena and unit operations-related
27020	Chemical reaction and process system engineering-related
27030	Catalyst and resource chemical process-related
27040	Biofunction and bioprocess engineering-related
Medium-sized Section 28: Nano/micro science and related fields	
Basic Section	
28010	Nanometer-scale chemistry-related
28020	Nanostructural physics-related
28030	Nanomaterials-related
28040	Nanobioscience-related
28050	Nano/micro-systems-related
Medium-sized Section 29: Applied condensed matter physics and related fields	
Basic Section	
29010	Applied physical properties-related
29020	Thin film/surface and interfacial physical properties-related
29030	Applied condensed matter physics-related
Medium-sized Section 30: Applied physics and engineering and related fields	
Basic Section	
30010	Crystal engineering-related
30020	Optical engineering and photon science-related
Medium-sized Section 31: Nuclear engineering, earth resources engineering, energy engineering, and related fields	
Basic Section	
31010	Nuclear engineering-related
31020	Earth resource engineering, Energy sciences-related
Medium-sized Section 90: Biomedical engineering and related fields	
Basic Section	
90110	Biomedical engineering-related
90120	Biomaterials-related
90130	Medical systems-related
90140	Medical technology assessment-related
90150	Medical assistive technology-related

Broad Section E	
Medium-sized Section 32: Physical chemistry, functional solid state chemistry, and related fields	
Basic Section	
32010	Fundamental physical chemistry-related
32020	Functional solid state chemistry-related
Medium-sized Section 33: Organic chemistry and related fields	
Basic Section	
33010	Structural organic chemistry and physical organic chemistry-related
33020	Synthetic organic chemistry-related
Medium-sized Section 34: Inorganic/coordination chemistry, analytical chemistry, and related fields	
Basic Section	
34010	Inorganic/coordination chemistry-related
34020	Analytical chemistry-related
34030	Green sustainable chemistry and environmental chemistry-related
Medium-sized Section 35: Polymers, organic materials, and related fields	
Basic Section	
35010	Polymer chemistry-related
35020	Polymer materials-related
35030	Organic functional materials-related
Medium-sized Section 36 : Inorganic materials chemistry, energy-related chemistry, and related fields	
Basic Section	
36010	Inorganic compounds and inorganic materials chemistry-related
36020	Energy-related chemistry
Medium-sized Section 37: Biomolecular chemistry and related fields	
Basic Section	
37010	Bio-related chemistry
37020	Chemistry and chemical methodology of biomolecules-related
37030	Chemical biology-related

Broad Section F	
Medium-sized Section 38 : Agricultural chemistry and related fields	
Basic Section	
38010	Plant nutrition and soil science-related
38020	Applied microbiology-related
38030	Applied biochemistry-related
38040	Bioorganic chemistry-related
38050	Food sciences-related
38060	Applied molecular and cellular biology-related
Medium-sized Section 39: Agricultural and environmental biology and related fields	
Basic Section	
39010	Science in plant genetics and breeding-related
39020	Crop production science-related
39030	Horticultural science-related
39040	Plant protection science-related
39050	Insect science-related
39060	Conservation of biological resources-related
39070	Landscape science-related
Medium-sized Section 40: Forestry and forest products science, applied aquatic science, and related fields	
Basic Section	
40010	Forest science-related
40020	Wood science-related
40030	Aquatic bioproduction science-related
40040	Aquatic life science-related
Medium-sized Section 41 : Agricultural economics and rural sociology, agricultural engineering, and related fields	
Basic Section	
41010	Agricultural and food economics-related
41020	Rural sociology and agricultural structure-related
41030	Rural environmental engineering and planning-related
41040	Agricultural environmental engineering and agricultural information engineering-related
41050	Environmental agriculture-related
Medium-sized Section 42: Veterinary medical science, animal science, and related fields	
Basic Section	
42010	Animal production science-related
42020	Veterinary medical science-related
42030	Animal life science-related
42040	Laboratory animal science-related

Broad Section G	
Medium-sized Section 43: Biology at molecular to cellular levels, and related fields	
Basic Section	
43010	Molecular biology-related
43020	Structural biochemistry-related
43030	Functional biochemistry-related
43040	Biophysics-related
43050	Genome biology-related
43060	System genome science-related
Medium-sized Section 44: Biology at cellular to organismal levels, and related fields	
Basic Section	
44010	Cell biology-related
44020	Developmental biology-related
44030	Plant molecular biology and physiology-related
44040	Morphology and anatomical structure-related
44050	Animal physiological chemistry, physiology and behavioral biology-related
Medium-sized Section 45: Biology at organismal to population levels and anthropology, and related fields	
Basic Section	
45010	Genetics-related
45020	Evolutionary biology-related
45030	Biodiversity and systematics-related
45040	Ecology and environment-related
45050	Physical anthropology-related
45060	Applied anthropology-related
Medium-sized Section 46: Neuroscience and related fields	
Basic Section	
46010	Neuroscience-general-related
46020	Anatomy and histopathology of nervous system-related
46030	Function of nervous system-related

Broad Section H	
Medium-sized Section 47: Pharmaceutical sciences and related fields	
Basic Section	
47010	Pharmaceutical chemistry and drug development sciences-related
47020	Pharmaceutical analytical chemistry and physicochemistry-related
47030	Pharmaceutical hygiene and biochemistry-related
47040	Pharmacology-related
47050	Environmental and natural pharmaceutical resources-related
47060	Clinical pharmacy-related
Medium-sized Section 48: Biomedical structure and function and related fields	
Basic Section	
48010	Anatomy-related
48020	Physiology-related
48030	Pharmacology-related
48040	Medical biochemistry-related
Medium-sized Section 49: Pathology, infection/immunology, and related fields	
Basic Section	
49010	Pathological biochemistry-related
49020	Human pathology-related
49030	Experimental pathology-related
49040	Parasitology-related
49050	Bacteriology-related
49060	Virology-related
49070	Immunology-related

Broad Section I	
Medium-sized Section 50: Oncology and related fields	
Basic Section	
50010	Tumor biology-related
50020	Tumor diagnostics and therapeutics-related
Medium-sized Section 51: Brain sciences and related fields	
Basic Section	
51010	Basic brain sciences-related
51020	Cognitive and brain science-related
51030	Pathophysiological neuroscience-related
Medium-sized Section 52: General internal medicine and related fields	
Basic Section	
52010	General internal medicine-related
52020	Neurology-related
52030	Psychiatry-related
52040	Radiological sciences-related
52050	Embryonic medicine and pediatrics-related
Medium-sized Section 53: Organ-based internal medicine and related fields	
Basic Section	
53010	Gastroenterology-related
53020	Cardiology-related
53030	Respiratory medicine-related
53040	Nephrology-related
53050	Dermatology-related
Medium-sized Section 54: Internal medicine of the bio-information integration and related fields	
Basic Section	
54010	Hematology and medical oncology-related
54020	Connective tissue disease and allergy-related
54030	Infectious disease medicine-related
54040	Metabolism and endocrinology-related
Medium-sized Section 55: Surgery of the organs maintaining homeostasis and related fields	
Basic Section	
55010	General surgery and pediatric surgery-related
55020	Digestive surgery-related
55030	Cardiovascular surgery-related
55040	Respiratory surgery-related
55050	Anesthesiology-related
55060	Emergency medicine-related
Medium-sized Section 56: Surgery related to the biological and sensory functions and related fields	
Basic Section	
56010	Neurosurgery-related
56020	Orthopedics-related
56030	Urology-related
56040	Obstetrics and gynecology-related
56050	Otorhinolaryngology-related
56060	Ophthalmology-related
56070	Plastic and reconstructive surgery-related

Broad Section I (continued)	
Medium-sized Section 57 : Oral science and related fields	
Basic Section	
57010	Oral biological science-related
57020	Oral pathobiological science-related
57030	Conservative dentistry-related
57040	Regenerative dentistry and dental engineering-related
57050	Prosthodontics-related
57060	Surgical dentistry-related
57070	Developmental dentistry-related
57080	Social dentistry-related
Medium-sized Section 58 : Society medicine, nursing, and related fields	
Basic Section	
58010	Medical management and medical sociology-related
58020	Hygiene and public health-related: including laboratory approach
58030	Hygiene and public health-related: excluding laboratory approach
58040	Forensics medicine-related
58050	Fundamental of nursing-related
58060	Clinical nursing-related
58070	Lifelong developmental nursing-related
58080	Gerontological nursing and community health nursing-related
Medium-sized Section 59 : Sports sciences, physical education, health sciences, and related fields	
Basic Section	
59010	Rehabilitation science-related
59020	Sports sciences-related
59030	Physical education, and physical and health education-related
59040	Nutrition science and health science-related
Medium-sized Section 90: Biomedical engineering and related fields	
Basic Section	
90110	Biomedical engineering-related
90120	Biomaterials-related
90130	Medical systems-related
90140	Medical technology assessment-related
90150	Medical assistive technology-related

Broad Section J	
Medium-sized Section 60: Information science, computer engineering, and related fields	
Basic Section	
60010	Theory of informatics-related
60020	Mathematical informatics-related
60030	Statistical science-related
60040	Computer system-related
60050	Software-related
60060	Information network-related
60070	Information security-related
60080	Database-related
60090	High performance computing-related
60100	Computational science-related
Medium-sized Section 61: Human informatics and related fields	
Basic Section	
61010	Perceptual information processing-related
61020	Human interface and interaction-related
61030	Intelligent informatics-related
61040	Soft computing-related
61050	Intelligent robotics-related
61060	Kansei informatics-related
90010	Design-related
90030	Cognitive science-related
Medium-sized Section 62: Applied informatics and related fields	
Basic Section	
62010	Life, health and medical informatics-related
62020	Web informatics and service informatics-related
62030	Learning support system-related
62040	Entertainment and game informatics-related
90020	Library and information science, humanistic and social informatics-related

Broad Section K	
Medium-sized Section 63: Environmental analyses and evaluation and related fields	
Basic Section	
63010	Environmental dynamic analysis-related
63020	Radiation influence-related
63030	Chemical substance influence on environment-related
63040	Environmental impact assessment-related
Medium-sized Section 64: Environmental conservation measure and related fields	
Basic Section	
64010	Environmental load and risk assessment-related
64020	Environmental load reduction and remediation-related
64030	Environmental materials and recycle technology-related
64040	Social-ecological systems-related
64050	Sound material-cycle social systems-related
64060	Environmental policy and social systems-related

### The Review Section Table (Table for Basic Section)

When selecting a review section, applicants should first acquire an overall picture of the review sections based on the Review Section Table (Overview). In addition, check the Review Section Table (Table for Basic Section) for the detailed contents of each section and select a review section for their research proposal.

Also, some items of Basic Section may be presented in plural Medium-sized and Broad Sections. The items of Basic Section presented in plural Medium-sized Section are 9 and 3 items among 9 are presented in plural Medium-sized and Broad Sections (as shown below).

In addition, five other Basic Sections (90110-90150) may be presented in only one Medium-sized Section and two Broad Sections.

When selecting a Medium-sized or Broad Section, applicants should refer to the Attachment 2 “Review Section Table (Table for Medium-sized and Broad Sections), and select the one that seems to be most suitable for their own research proposal.

#### **【Basic sections may be presented in plural Medium-sized and Broad Section】**

Basic Section Item	Basic Section Description	Medium-sized Sections corresponding Basic Sections	Broad Sections corresponding Basic Sections
02090	Japanese language education-related	2, 9	A
02100	Foreign language education-related	2, 9	A
80010	Area studies-related	4, 6	A
80020	Tourism studies-related	4, 7, 8	A
80030	Gender studies-related	4, 6, 8	A
80040	Quantum beam science-related	1 4, 1 5	B
90010	Design-related	1, 2 3, 6 1	A, C, J
90020	Library and information science, humanistic and social informatics-related	2, 6 2	A, J
90030	Cognitive science-related	1 0, 6 1	A, J
90110	Biomedical engineering-related	9 0	D, I
90120	Biomaterials-related	9 0	D, I
90130	Medical systems-related	9 0	D, I
90140	Medical technology assessment-related	9 0	D, I
90150	Medical assistive technology-related	9 0	D, I

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
01010	Philosophy and ethics-related	1	A
	Philosophy in general, Ethics in general, Western philosophy, Western ethics, Japanese philosophy, Japanese ethics, Applied ethics, etc.		
01020	Chinese philosophy, Indian philosophy and Buddhist philosophy-related	1	A
	Chinese philosophy/thought, Indian philosophy/thought, Buddhist philosophy, Bibliography, Philology, etc.		
01030	Religious studies-related	1	A
	History of religions, Philosophy of religion, Theology, Sociology of religion, Psychology of religion, Anthropology of religion, Studies of religious folklore, Mythology, Bibliography, Philology, etc.		
01040	History of thought-related	1	A
	History of thought in general, History of Western thought, History of Eastern thought, History of Japanese thought, etc.		
01050	Aesthetics and art studies-related	1	A
	Philosophy of art, Aesthetics, Miscellaneous art studies, etc.		
01060	History of arts-related	1	A
	Japanese art, Eastern art, Western art, Contemporary art, Craft, Design, Architecture, Costume, Photography, etc.		
01070	Theory of art practice-related	1	A
	Art expression, Arts management, Art policy, Art production, etc.		
01080	Sociology of science, history of science and technology-related	1	A
	Sociology of science, History of science, History of technology, History of medicine, Industrial archeology, Philosophy of science, Foundation of science, STS (Science, technology and society), etc.		
02010	Japanese literature-related	2	A
	Japanese literature in general, Ancient literature, Medieval literature, Chinese classics in Japan, Bibliography, Philology, Premodern literature, Modern literature, Contemporary literature, Literary theory, etc.		
02020	Chinese literature-related	2	A
	Chinese literature, Bibliography, Philology, Literary theory, etc.		
02030	English literature and literature in the English language-related	2	A
	English literature, American literature, Literature in the English language, Literary theory, Bibliography, Philology, etc.		
02040	European literature-related	2	A
	French literature, Literature in the French language, German literature, Literature in the German language, Classics, Russian and East European literature, Literature in other European languages, Literary theory, Bibliography, Philology, etc.		
02050	Literature in general-related	2	A
	Literature in other languages and areas, Literary theory, Comparative literature, Bibliography, Philology, Literature education, etc.		
02060	Linguistics-related	2	A
	Phonetics/phonology, Semantics/pragmatics, Morphosyntax, Sociolinguistics, Contrastive linguistics, Psycholinguistics, Neurolinguistics, Historical linguistics, Corpus linguistics, Endangered and minority languages, etc.		



Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
02070	Japanese linguistics-related	2	A
	Phonetics/phonology, Writing systems, Lexicon and semantics, Grammar, Stylistics, Pragmatics, Language life, Dialect, History of the Japanese language, History of Japanese linguistics, etc.		
02080	English linguistics-related	2	A
	Phonetics/phonology, Lexicon and semantics, Grammar, Stylistics, Pragmatics, Sociolinguistics, Diversity of the English language, Corpus linguistics, History of the English language, History of English linguistics, etc.		
02090	Japanese language education-related	2, 9	A
	Research on learners, Language acquisition, Teaching material, Curriculum evaluation, Japanese language education for specific purposes, Bilingual education, Research on teachers, Japanese language for Japanese language education, History of Japanese language education, Cross-cultural understanding, etc.		
02100	Foreign language education-related	2, 9	A
	Learning method, Computer-assisted language learning (CALL), Teaching material, Language testing, Theory of second language acquisition, Early English education, History of foreign language education and language policies, Curriculum evaluation, Training foreign language teachers, Cross-cultural understanding, etc.		
03010	Historical studies in general-related	3	A
	Historical theory, Historical methodology, Research in historical materials, Memory and medium, World history, History of cultural and diplomatic exchange, Comparative history, etc.		
03020	Japanese history-related	3	A
	Japanese history in general, History of ancient Japan, History of medieval Japan, History of early modern Japan, History of modern Japan, History of local Japan, History of Japanese culture, History of Japanese religion, History of Japanese environment, History of Japanese city, History of cultural and diplomatic exchange, Comparative history, Research in historical materials, etc.		
03030	History of Asia and Africa-related	3	A
	History of pre-modern China, History of modern China, East Asian history, Central Eurasian history, Southeast Asian history, Oceanian history, South Asian history, West Asian history, African history, History of cultural and diplomatic exchange, Comparative history, Research in historical materials, etc.		
03040	History of Europe and America-related	3	A
	Ancient European history, Medieval European history, Modern and contemporary West European history, Modern and contemporary East European history, North and South American history, History of cultural and diplomatic exchange, Comparative history, Research in historical materials, etc.		
03050	Archaeology-related	3	A
	Archaeology in general, Prehistoric archaeology, Historical archaeology, Japanese archaeology, Asian archaeology, Ancient civilizations, History of material culture, Experimental archaeology, Information archaeology, Study of buried cultural property, etc.		
03060	Cultural assets study-related	3	A
	Dating methods, Material analysis, Production techniques, Conservation science, Archaeological prospection, Plant and animal residues, Human remains, Cultural heritage, Cultural resources, Cultural property policy, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
03070	Museology-related	3	A
	Exhibition studies, Museum pedagogy, Museum informatics, Museum business management, Public finance and administration of museums, Museum material resources, History of museology, etc.		
04010	Geography-related	4	A
	Geography in general, Land use, Landscape, Environmental system, Geomorphology, Climatology, Hydrology, Cartography, Geographic information system, Regional planning, etc.		
04020	Human geography-related	4	A
	Human geography in general, Economic geography, Social geography, Political geography, Cultural geography, Urban geography, Rural geography, Historical geography, Regional geography, Geography education, etc.		
04030	Cultural anthropology and folklore-related	4	A
	Cultural anthropology in general, Folklore in general, Material culture, Ecology, Social relationship, Religion, Arts, Health care, Border crossing, Minority, etc.		
80010	Area studies-related	4, 6	A
	Area studies in general, Cross-regional comparative studies, Aid, International cooperation, Interregional exchange, Environment, Transnationalism, Globalization, Social development, etc.		
80020	Tourism studies-related	4, 7, 8	A
	Tourism studies in general, Tourism, Tourism resources, Tourism policy, Tourism industry, Regional development, Tourists, Pilgrimage, etc.		
80030	Gender studies-related	4, 6, 8	A
	Gender studies in general, Feminism, Sexuality, Queer studies, Labor, Violence, Prostitution, Reproductive technology, Gender equality, etc.		
05010	Legal theory and history-related	5	A
	Legal philosophy, Roman law, Legal history, Sociology of law, Comparative law, Foreign law, Law and policy, Law and economics, Judicial system, etc.		
05020	Public law-related	5	A
	Constitutional law, Administrative law, Tax law, etc.		
05030	International law-related	5	A
	Public international law, Private international law, International human rights law, International economic law, EU law, etc.		
05040	Social law-related	5	A
	Labor law, Economic law, Social security law, Education law, etc.		
05050	Criminal law-related	5	A
	Criminal law, Criminal procedure, Criminology, Criminal justice policy, Juvenile law, Law and psychology, etc.		
05060	Civil law-related	5	A
	Civil law, Commercial law, Civil procedure, Insolvency law, Alternative dispute resolution, etc.		
05070	New fields of law-related	5	A
	Environmental law, Medical law, Information law, Consumer law, Intellectual property law, Law and gender, Legal profession, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
06010	Politics-related	6	A
	Political theory, History of political thought, Political history, Japanese political history, Japanese politics, Political process, Electoral studies, Political economy, Public administration, Local government, Comparative politics, Public policy, etc.		
06020	International relations-related	6	A
	Theory of international relations, Modern international relations, Diplomatic history, International history, Foreign policy, International security, International political economy, Global governance, International cooperation, etc.		
07010	Economic theory-related	7	A
	Microeconomics, Macroeconomics, Game theory, Behavioral economics, Experimental economics, Economic theory, Evolutionary economics, Economic institutions, Economic systems, etc.		
07020	Economic doctrines and economic thought-related	7	A
	Economic doctrines, Economic thought, Social thought, Economic philosophy, etc.		
07030	Economic statistics-related	7	A
	Statistical system, Statistical research, Population statistics, Income/wealth distribution, National accounts, Econometrics, Financial econometrics, etc.		
07040	Economic policy-related	7	A
	International economics, Industrial organization, Economic development, Urban economics, Regional economy, Environmental and resource economics, Japanese economy, Economic policy, Transportation economics, Development economics, International development, etc.		
07050	Public economics and labor economics-related	7	A
	Public finance, Public economics, Health economics, Labor economics, Social security, Education economics, Law and economics, Political economy, etc.		
07060	Money and finance-related	7	A
	Monetary economics, Finance, International finance, Corporate finance, Financial engineering, Insurance, etc.		
07070	Economic history-related	7	A
	Economic history, Business history, Industrial history, etc.		
07080	Business administration-related	7	A
	Corporation theory, Organization theory, Organizational behavior, Corporate strategy, Business management, Human resource management, Management of technology, International business, Management information, Industrial management, Management in general, etc.		
07090	Commerce-related	7	A
	Marketing, Consumer behavior, Distributive sciences, Logistics, Commerce in general, etc.		
07100	Accounting-related	7	A
	Financial accounting, Management accounting, Auditing, Accounting in general, etc.		
08010	Sociology-related	8	A
	Sociology in general, Community, Family, Labor, Sociology of welfare, Gender, Media, Ethnicity, Social movements, Social research, Sociology of medicine, Social demography, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
08020	Social welfare-related	8	A
	Social work, Social policy, Social welfare history, Child welfare, Social welfare for people with disabilities, Social welfare for aging, Community welfare, Poverty, Volunteerism, Social welfare in general, etc.		
08030	Family and consumer sciences, and culture and living-related	8	A
	Culture and living, Home economics, Consumer affairs, Lifestyle, Culture of clothing, Culture of food, Culture of dwelling, Dress and fashion, Diet habits, Housing, Family and consumer sciences in general, Family and consumer education, etc.		
09010	Education-related	9	A
	History of education, Philosophy of education, Curriculum and pedagogy, Evaluation of education, Teacher and trainer, School education, Social and community education, Vocational education and training, Lifelong learning, Institutions and administration, etc.		
09020	Sociology of education-related	9	A
	Sociology of education, Socialization, Educational organization and system, Destination and career formation, Class disparities, Gender, Education policy, Comparative education, Globalization and development, etc.		
09030	Childhood and nursery/pre-school education-related	9	A
	Childhood, Nursery/pre-school education, Right of child, Development, Contents and methods of child care, Childcare facilities and kindergarten, Caregiver and pre-school teacher, Child care support, Childhood culture, History and thought, etc.		
09040	Education on school subjects and primary/secondary education-related	9	A
	Education of individual subjects, Education excluding subjects, Student guidance and counselling, Career education, School management, Teacher education, ESD, Environmental education, Literacy, etc.		
09050	Tertiary education-related	9	A
	Policy, Admission and articulation, Curriculum, Career guidance, Teacher and staff, Scientific research, Regional link and contribution, Globalization, Management and governance, Non-university higher education, etc.		
09060	Special needs education-related	9	A
	Philosophy and history, Inclusion and cohesive society, Instructions and supports, Developmental disabilities, Emotional disturbance, Intellectual disabilities, Language disorders, Physical disabilities, Career education, etc.		
09070	Educational technology-related	9	A
	Curriculum development, Teaching-learning support systems, Utilization of media, Utilization of ICT, Teacher's education, Information literacy, etc.		
09080	Science education-related	9	A
	Science education, Science communication, Scientific literacy, Science and society, etc.		
10010	Social psychology-related	10	A
	Social psychology in general, Self, Group, Attitude and behavior, Affection/emotion, Interpersonal relation, Social issues, Culture, etc.		
10020	Educational psychology-related	10	A
	Educational psychology in general, Development, Family, School, Clinical practice, Personality, Learning, Assessment and evaluation, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
10030	Clinical psychology-related	10	A
	Clinical psychology in general, Psychological disorder, Assessment, Psychological intervention, Training, Mental health, Crime and delinquency, Community, etc.		
10040	Experimental psychology-related	10	A
	Experimental psychology in general, Sensation, Perception, Attention, Memory, Language, Emotion, Learning, etc.		
11010	Algebra-related	11	B
	Group theory, Ring theory, Representation theory, Algebraic combinatorics, Number theory, Arithmetic geometry, Algebraic geometry, Algebraic analysis, etc.		
11020	Geometry-related	11	B
	Differential geometry, Riemannian geometry, Symplectic geometry, Complex geometry, Topology, Differential topology, Low dimensional topology, etc.		
12010	Basic analysis-related	12	B
	Functional analysis, Complex analysis, Probability theory, Harmonic analysis, Operator theory, Spectral analysis, Operator algebras, Algebraic analysis, Representation theory, etc.		
12020	Mathematical analysis-related	12	B
	Functional equations, Real analysis, Dynamical system, Variational method, Nonlinear analysis, Applied analysis, etc.		
12030	Basic mathematics-related	12	B
	Mathematical logic and foundations, Information theory, Discrete mathematics, Computer mathematics, etc.		
12040	Applied mathematics and statistics-related	12	B
	Numerical analysis, Mathematical modelling, Optimal control, Game theory, Statistical mathematics, etc.		
13010	Mathematical physics and fundamental theory of condensed matter physics-related	13	B
	Statistical physics, Fundamental theory of condensed matter physics, Mathematical physics, Nonequilibrium nonlinear physics, Fluid dynamics, Computational physics, Quantum information theory, etc.		
13020	Semiconductors, optical properties of condensed matter and atomic physics-related	13	B
	Semiconductors, Dielectrics, Atoms and molecules, Mesoscopic systems, Crystals, Surfaces and interfaces, Optical properties of condensed matter, Quantum electronics, Quantum information, etc.		
13030	Magnetism, superconductivity and strongly correlated systems-related	13	B
	Magnetism, Strongly correlated electron systems, Superconductivity, Quantum fluids and solids, Molecular solids, etc.		
13040	Biophysics, chemical physics and soft matter physics-related	13	B
	Physics of biological phenomena, Physics of biological matters, Liquids and glasses, Soft matters, Rheology, etc.		
14010	Fundamental plasma-related	14	B
	Basic plasmas, Magnetized plasmas, Laser plasmas, Strongly coupled plasmas, Plasma diagnostics, Astrophysical and space plasmas, etc.		
14020	Nuclear fusion-related	14	B
	Plasma confinement, Plasma control, Plasma heating, Plasma diagnostics, Edge plasma, Plasma wall interaction, Inertial fusion, Fusion material, Fusion system, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
14030	Applied plasma science-related	14	B
	Plasma processing, Plasma photonics, Plasma material science, General plasma applications, etc.		
80040	Quantum beam science-related	14, 15	B
	Accelerators, Beam physics, Radiation detectors, Beam control, Applied quantum beam science, etc.		
15010	Theoretical studies related to particle-, nuclear-, cosmic ray and astro-physics	15	B
	Particle physics, Nuclear physics, Cosmic-ray physics, Astrophysics, Relativity, Gravity, etc.		
15020	Experimental studies related to particle-, nuclear-, cosmic ray and astro-physics	15	B
	Particle physics, Nuclear physics, Cosmic-ray physics, Astrophysics, Relativity, Gravity, etc.		
16010	Astronomy-related	16	B
	Optical/infrared astronomy, Radio astronomy, Solar physics, Astrometry, Theoretical astronomy, X-ray/ $\gamma$ -ray astronomy, etc.		
17010	Space and planetary sciences-related	17	B
	Solar-terrestrial physics, Aeronomy, Planetary science, Exoplanetary science, Extraterrestrial material science, etc.		
17020	Atmospheric and hydrospheric sciences-related	17	B
	Climate system, Atmospheric science, Ocean science, Limnology, Glaciology, Paleoclimatology, etc.		
17030	Human geosciences-related	17	B
	Geoenvironmental science, Natural disaster science, Geospatial information science, Quaternary research, Earth resources science, etc.		
17040	Solid earth sciences-related	17	B
	Solid earth geophysics, Geology, Earth's interior material science, Solid earth geochemistry, etc.		
17050	Biogeosciences-related	17	B
	Origin and evolution of life, Extremophile biology, Biogeochemistry, Paleoenvironmental science, Paleontology, etc.		
18010	Mechanics of materials and materials-related	18	C
	Structural mechanics, Fatigue, Fracture, Biomaterials, Material design, Material characteristics, Material evaluation, etc.		
18020	Manufacturing and production engineering-related	18	C
	Machine tools, Machining, Non-traditional machining, Ultraprecision machining, Additive manufacturing, Precision metrology, Manufacturing systems, Computer-aided technology, Process planning, etc.		
18030	Design engineering-related	18	C
	Product design, Service design, Design for reliability, Maintainability design, Lifecycle engineering, Reverse engineering, Safety design, Design engineering, etc.		
18040	Machine elements and tribology-related	18	C
	Machine elements, Mechanisms, Tribology, Actuators, Micromachines, etc.		
19010	Fluid engineering-related	19	C
	Fluid machinery, Flow measurement, Computational fluid dynamics, Turbulence, Multiphase flow, Compressible flow, Incompressible flow, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
19020	Thermal engineering-related	19	C
	Heat transfer, Convection, Combustion, Thermophysical properties, Refrigeration and air-conditioning, Heat engine, Energy conversion, etc.		
20010	Mechanics and mechatronics-related	20	C
	Kinematics, Kinetics, Vibration, Acoustics, Automation, Learning control, Mechatronics, Micro/nano mechatronics, Biomechanics, etc.		
20020	Robotics and intelligent system-related	20	C
	Robotics, Intelligent system, Human mechanical system, Human interface, Planning, Intelligent spatial system, Virtual reality, Augmented reality, etc.		
21010	Power engineering-related	21	C
	Electrical energy-related, Energy conservation, Power system engineering, Electric machinery, Power electronics, Effective utilization of electric energy, Electromagnetic compatibility, etc.		
21020	Communication and network engineering-related	21	C
	Information theory, Nonlinear theory, Signal processing, Wired/wireless communication systems, Modulation/demodulation, Antennas, Networks, Multimedia, Cryptography/security, etc.		
21030	Measurement engineering-related	21	C
	Measurement theory, Measuring instruments, Applied wave metrology, Measurement systems, Signal processing, Sensing devices, etc.		
21040	Control and system engineering-related	21	C
	Control theory, System theory, Control systems, Knowledge-based control systems, System information processing, System control applications, Biosystems engineering, etc.		
21050	Electric and electronic materials-related	21	C
	Semiconductor, Dielectric materials, Magnetic materials, Organic materials, Superconductor, Composite materials, Thin films, Quantum structures, Thick films, Fabrication/characterization methods, etc.		
21060	Electron device and electronic equipment-related	21	C
	Electron devices, Circuit design, Optical devices, Spintronic devices, Millimeter wave/terahertz wave, Applied wave devices, Storage devices, Displays, Micro fabrication process technology, Implementation technology, etc.		
22010	Civil engineering material, execution and construction management-related	22	C
	Concrete, Steel, Composite material, Wood, Pavement material, Repair and reinforce material, Execution, Maintenance, Construction management, Underground space, etc.		
22020	Structure engineering and earthquake engineering-related	22	C
	Applied mechanics, Structure engineering, Steel structure, Concrete structure, Composite structure, Wind engineering, Earthquake engineering, Aseismatic structure, Earthquake prevention, etc.		
22030	Geotechnical engineering-related	22	C
	Soil mechanics, Foundation engineering, Rock engineering, Engineering Geology, Ground behavior, Soil structure, Geo-disaster prevention, Geoenvironmental engineering, Tunnel engineering, Soil environment, etc.		
22040	Hydroengineering-related	22	C
	Hydraulics, Environmental hydraulics, Hydrology, River engineering, Water resource engineering, Coastal engineering, Port and harbor engineering, Ocean engineering, etc.		
22050	Civil engineering plan and transportation engineering-related	22	C
	Civil engineering plan, Regional urban planning, Spatial planning, Disaster prevention plan, Transportation plan, Transportation engineering, Railway engineering, Surveying and remote sensing, Landscape design, Civil engineering history, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
22060	Environmental systems for civil engineering-related	22	C
	Environment plan, Environmental system, Environment conservation, Water serve and drainage systems, Waste, Water environment, Atmospheric circulation, Noise and vibration, Environment ecology, Environmental monitoring, etc.		
23010	Building structures and materials-related	23	C
	Load theory, Structural analysis, Structural design, Structures, Earthquake resistant design, Foundation, Geotechnics, Structural material, Maintenance, Building construction method, etc.		
23020	Architectural environment and building equipment-related	23	C
	Sound environment, Vibration environment, Light environment, Heat environment, Air environment, Environmental psychology/physiology, Building equipment, Fire engineering, Urban environment, Environment design, etc.		
23030	Architectural planning and city planning-related	23	C
	Planning theory, Design theory, Housing theory, Buildings, Urban/regional planning, Administration, Building economics, Production management, Disaster prevention planning, Landscape, etc.		
23040	Architectural history and design-related	23	C
	Architectural history, Urban history, Architectural theory, Design, Landscape, Preservation, Renovation, etc.		
24010	Aerospace engineering-related	24	C
	Thermo-fluid dynamics, Structural strength, Propulsion, Aerospace craft design, Production engineering, Aircraft system, Specific aircraft, Aerodynamics, Spacecraft system, Space utilization, etc.		
24020	Marine engineering-related	24	C
	Navigation, Structural mechanics, Structural design, Production technology, Marine propulsion, Marine transport, Marine development engineering, Underwater engineering, Polar engineering, Marine environmental technology, etc.		
25010	Social systems engineering-related	25	C
	Social systems, Industrial engineering, Operations research, Industrial management, Reliability engineering, Policy science, Regulatory science, Quality control, etc.		
25020	Safety engineering-related	25	C
	Safety engineering, Safety system, Risk engineering, Risk management, Work safety, Product safety, Safety information, Human engineering, Liability engineering, etc.		
25030	Disaster prevention engineering-related	25	C
	Disaster prediction, Hazard map, Building prevention against disaster, Lifeline prevention against disaster, Regional disaster prevention planning, Risk evaluation of disaster, Disaster prevention policy, Disaster resilience, etc.		
26010	Metallic material properties-related	26	D
	Electric and magnetic properties, Electronic information properties, Metastable states, Diffusion, Phase transformation, Phase diagram, Crystal lattice defects, Mechanical properties, Thermal and optical properties, Materials computational science, etc.		
26020	Inorganic materials and properties-related	26	D
	Functional ceramics, Functional glasses, Structural ceramics, Carbon-based materials, Crystal structure analysis, Microstructure control, Electric properties, Mechanical properties, Physical and chemical properties, Grain boundary, etc.		



Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
26030	Composite materials and interfaces-related	26	D
	Functional composite materials, Structural composite materials, Biocompatible composite materials, Polymer composite, Surface treatment, Dispersion control, Joining and welding, Adhesive bonding, Interface properties, Gradient function, etc.		
26040	Structural materials and functional materials-related	26	D
	Social infrastructure materials, Toughness, Medical welfare materials, Functional polymer materials, Reliability, Photo-functional materials, Sensor materials, Energy materials, Battery functional materials, Environment functional materials, etc.		
26050	Material processing and microstructure control-related	26	D
	Processing and molding, Thermal treatment, Crystal microstructure control, Laser processing, Precision processing, Polishing, Powder metallurgy, Coatings, Metal plating, Corrosion and protection, etc.		
26060	Metals production and resources production-related	26	D
	Separation and purification, Melting and solidifying, Crystal growth, Casting, Resource security reservation, Scarce resources substitution, Low environment impact, Recycle, Ecomaterials, Energy saving, etc.		
27010	Transport phenomena and unit operations-related	27	D
	Phase equilibrium, Transport properties, Momentum/heat/mass transfer, Fluid-phase unit operation, Adsorption, Membrane separation, Mixing, Powder technology, Crystallization, Film formation, etc.		
27020	Chemical reaction and process system engineering-related	27	D
	Reaction operation, Novel reaction process, Reaction mechanism, Reactor design, Materials synthesis process, Micro-chemical process, Process control, Process system design, Process informatics, etc.		
27030	Catalyst and resource chemical process-related	27	D
	Catalysis, Catalyst preparation, Catalytic function, Energy conversion process, Energy development, Energy-saving technology, Resources effective utilization technology, etc.		
27040	Biofunction and bioprocess engineering-related	27	D
	Biocatalyst engineering, Biofunction engineering, Food engineering, Medicochemical engineering, Bioproduction process, Nano-bioprocess, Bioreactor, Bioseparation, Biosensor, Biorefinery, etc.		
28010	Nanometer-scale chemistry-related	28	D
	Nanostructure creation, Clusters, Nanoparticles, Mesoscopic chemistry, Superstructures, Nanometer-scale surfaces and interfaces, Self-assembly, Nanocarbons, Molecular devices, Nanometer-scale optical devices, etc.		
28020	Nanostructural physics-related	28	D
	Physics in nanoscale materials and structures, Nanoprobes, Quantum effects, Quantum dots, Quantum devices, Electron devices, Spin devices, Nanotribology, Nanocarbon physics, etc.		
28030	Nanomaterials-related	28	D
	Creation of nanomaterials, Analysis of nanomaterials, Nanosurfaces, Nanointerfaces, Functional nanomaterials, Nanostructures, Nanoparticles, Carbon nanomaterials, Nanocrystalline materials, Nanocomposites, Nanodefecteds, Nanofabrication process, etc.		
28040	Nanobioscience-related	28	D
	Biomolecular devices, Molecular manipulation, Molecular imaging, Nanomeasurements, Nanosynthesis, Single molecule science, Nano-bio interfaces, Biomolecular array, Genome engineering, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
28050	Nano/micro-systems-related	28	D
	MEMS, NEMS, BioMEMS, Nano/micro-fabrication, Nano/micro-optical devices, Nano/micro-chemical systems, Nano/micro-biosystems, Nano/micro-organism systems, Nano/micro-mechanics, Nano/micro-sensors, etc.		
29010	Applied physical properties-related	29	D
	Magnetic materials, Superconductors, Dielectrics, Fine particles, Organic molecules, Liquid crystals, New functional materials, Organic molecules and bioelectronics, Spintronics, etc.		
29020	Thin film/surface and interfacial physical properties-related	29	D
	Thin-film engineering, Thin-film electronics, Oxide electronics, Vacuum, Surface science, Analysis, Measurement, Nanoscopic technology, Surface and interfacial engineering, Advanced equipment, etc.		
29030	Applied condensed matter physics-related	29	D
	Elementary quantities, Standards, Units, Physical quantity measurements and detection, Energy conversion, etc.		
30010	Crystal engineering-related	30	D
	Metals, Semiconductors, Ceramics, Amorphous materials, Crystal growth, Artificial structures, Crystal characterization, Plasma materials engineering, Plasma processing, Plasma engineering, etc.		
30020	Optical engineering and photon science-related	30	D
	Optical materials, Optical elements, Optical properties, Optical information processing, Laser, Optical sensing, Optical recording, Opto-electronics, Nonlinear optics, Vision optics, etc.		
31010	Nuclear engineering-related	31	D
	Reactor physics and safety design, Thermal-hydraulics and structure, Fuel material, Nuclear chemistry, Nuclear life cycle, Radiation safety, Radiation beam engineering, Plasma engineering for fusion reactor, Equipment and material engineering for fusion reactor, Nuclear social environment, etc.		
31020	Earth resource engineering, Energy sciences-related	31	D
	Earth resource sciences, Resource prospecting, Resource development, Resource cycle, Resource economy, Energy system, Environmental load evaluation, Renewable energy, Natural resource and energy technological policy, etc.		
32010	Fundamental physical chemistry-related	32	E
	Theoretical chemistry, Molecular spectroscopy, Structural chemistry, Electronic state dynamics, Chemical reaction dynamics, Surface/interface, Cluster and nano materials, Bio-related physical chemistry, Liquid structure dynamics, Solid state properties, Molecular properties, etc.		
32020	Functional solid state chemistry-related	32	E
	Optical properties, Electron spin, Molecular electronics and devices, Supermolecules, Liquid crystals, Crystals, Surface/interface, Nano particles, Colloids, Electrochemistry, Electronic properties, etc.		
33010	Structural organic chemistry and physical organic chemistry-related	33	E
	Organic crystals, Molecular recognition, Supermolecules, Organic functional materials, Extended $\pi$ -electron system compounds, Heterocyclic chemistry, Organoelement chemistry, Organic reaction mechanism, Organic photochemistry, Theoretical organic chemistry, etc.		
33020	Synthetic organic chemistry-related	33	E
	Selective reactions, Asymmetric synthesis, Organometallic complex/catalysis, Catalyst design, Organocatalysts, Biocatalysis, Sustainable organic synthesis, Natural product synthesis, Process chemistry, Organic electrochemistry, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
34010	Inorganic/coordination chemistry-related	34	E
	Coordination chemistry, Organometallic chemistry, Inorganic solid-state chemistry, Bioinorganic chemistry, Solution chemistry, Clusters, Supramolecular complexes, Coordination polymers, Typical elements, Physical properties and functions, etc.		
34020	Analytical chemistry-related	34	E
	Spectrometric analysis, Advanced measurements, Surface/interface analysis, Separation analysis, Analytical reagents, Radiochemical analysis, Electrochemical analysis, Bioanalysis, New analysis methods, etc.		
34030	Green sustainable chemistry and environmental chemistry-related	34	E
	Green process, Green catalysts, Recycle, Environmental assessment, Environmentally conscious materials, Reduction of environmental load, Environmental restoration, Resource saving, Geochemistry, Environmental radioactivity, etc.		
35010	Polymer chemistry-related	35	E
	Polymer synthesis, Polymer reactions, Precision polymerization, Functional polymers, Self-assembled polymers, Chiral polymers, Bio-related polymers, Polymer properties, Polymer structures, Polymer thin film/surface, etc.		
35020	Polymer materials-related	35	E
	Properties of polymer materials, Synthesis of polymer materials, Functional polymer materials, Liquid crystal polymers, Textiles, Rubbers, Gel, Biopolymers, Polymer composites, Polymer processing, etc.		
35030	Organic functional materials-related	35	E
	Organic semiconductors, Liquid crystals, Optical materials, Device-related materials, Electrically conductive materials, Hybrid materials, Molecular functional materials, Organic hybrid materials, Materials for energy conversion, etc.		
36010	Inorganic compounds and inorganic materials chemistry-related	36	E
	Crystals, Amorphous, Ceramics, Semiconductors, Inorganic device-related materials, Low-dimensional compounds, Porous materials, Nanoparticles, Multicomponent compounds, Hybrid materials, etc.		
36020	Energy-related chemistry	36	E
	Energy resources, Energy conversion materials, Energy carriers, Solar energy utilization, Material separation, Catalytic transformation, Battery and electrochemical materials, Energy-saving materials, Renewable energy, Unused energy, etc.		
37010	Bio-related chemistry	37	E
	Bioorganic chemistry, Bioinorganic chemistry, Biological reaction engineering, Biofunctional chemistry, Biofunctional materials, Biotechnology, etc.		
37020	Chemistry and chemical methodology of biomolecules-related	37	E
	Natural product chemistry, Biologically active compounds, Molecular mechanism of biological activities, Biofunctional molecules, Combinatorial chemistry, Metabolomic analysis, etc.		
37030	Chemical biology-related	37	E
	In vivo functional expression, Intracellular chemical reactions, Drug discovery science, Chemical library, Structure-activity relationship, Chemical probes, Biomolecular measurements, Molecular imaging, Proteomics, etc.		
38010	Plant nutrition and soil science-related	38	F
	Plant metabolism and physiology, Nutritional elements in plants, Soil classification, Soil physical chemistry, Soil organisms, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
38020	Applied microbiology-related	38	F
	Microbial genetics/breeding, Microbial function, Microbial metabolism and physiology, Microbial applications, Control of microbes, Microbial ecology, Production of useful materials, etc.		
38030	Applied biochemistry-related	38	F
	Cellular biochemistry, Applied biochemistry, Structural biology, Regulation of bioactivity, Metabolism and physiology, Cellular function, Molecular function, Production of useful materials, etc.		
38040	Bioorganic chemistry-related	38	F
	Bioactive substances, Signal molecules, Natural products chemistry, Biosynthesis, Structure-activity relationship, Synthetic organic chemistry, Chemical biology, etc.		
38050	Food sciences-related	38	F
	Food function, Food chemistry, Nutritional chemistry, Food analysis, Food engineering, Food safety, Functional food, Nutritional epidemiology, Clinical nutrition, etc.		
38060	Applied molecular and cellular biology-related	38	F
	Molecular cell biology, Cellular bioengineering, Molecular engineering, Gene expression control, Cell-cell/intermolecular interactions, Cellular function, Production of useful materials, etc.		
39010	Science in plant genetics and breeding-related	39	F
	Genetic resources, Breeding theories, Genomic breeding, Plants with novel traits, Quality components, Stress tolerance, Yielding ability, Reproduction and multiplication, Growth physiology, Development, etc.		
39020	Crop production science-related	39	F
	Field crops, Crop yield, Crop product quality, Crop morphology, Growth prediction, Crop physiology, Field management, Low-cost cultivation techniques, Environmentally friendly agriculture, Field ecosystem, etc.		
39030	Horticultural science-related	39	F
	Plant growth, flowering, and fruit development, Nursery plant propagation and production, Crop production systems, Cultivation techniques, Protected horticulture, Controlled environment systems, Breeding and development of new cultivars, Quality of horticultural products, Postharvest physiology and management, Socio-horticulture, etc.		
39040	Plant protection science-related	39	F
	Plant pathology, Clinical plant science, Agricultural insect pest, Natural enemy, Weed, Agricultural chemicals, Integrated pest management, etc.		
39050	Insect science-related	39	F
	Sericulture insect technology, Insect genetics, Insect pathology, Insect physiology and biochemistry, Insect ecology, Chemical ecology, Systematics, Symbiosis and parasitism, Social insects, Medical entomology, etc.		
39060	Conservation of biological resources-related	39	F
	Conservation biology, Biodiversity conservation, Conservation of phylogenetic diversity, Conservation of genetic resources, Ecosystem conservation, Conservation of endemic species, Conservation of microorganisms, etc.		
39070	Landscape science-related	39	F
	Landscape architecture, Parks and open space planning, Landscape planning, Cultural landscape, Nature conservation, Landscape ecology, Parks and open space management, Parks, Environmental greening, Participatory community design, etc.		
40010	Forest science-related	40	F
	Forest ecology, Forest biodiversity, Forest genetics and breeding, Silviculture, Forest protection, Forest environments, Erosion control, Forest planning, Forest policy, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
40020	Wood science-related	40	F
	Wood structure, Wood property, Lignocellulose, Trace element, Fungus, Wood processing, Biomass-refinery, Wood based material, Wooden building, Forest products education, etc.		
40030	Aquatic bioproduction science-related	40	F
	Aquatic environment, Fisheries, Aquatic resource management, Aquatic organisms, Aquatic ecosystem, Aquaculture, Fisheries engineering, Fishing community/fisheries policy, Fisheries economics/management/marketing, Fisheries education, etc.		
40040	Aquatic life science-related	40	F
	Aquatic nutrition, Aquatic pathology, Aquatic genetics/heredity/breeding, Aquatic physiology, Utilization of aquatic organisms and biomass, Aquatic biological chemistry, Aquatic biotechnology, Aquatic food sciences, etc.		
41010	Agricultural and food economics-related	41	F
	Food economy, Agricultural production economy, Policy for agriculture, forestry and fishery, Food system, Food marketing, International agricultural development, Trade of agricultural commodities and livestock products, Rural resources and environment, etc.		
41020	Rural sociology and agricultural structure-related	41	F
	Farm organization, Farm management, Agricultural structure, Agricultural market, Agricultural history, Rural society, Rural life, Agricultural cooperative, etc.		
41030	Rural environmental engineering and planning-related	41	F
	Irrigation and drainage, Reclamation and conservation of agricultural land, Rural planning, Rural environment, Circulation of resources and energy, Disaster prevention in rural area, Stock management of agricultural infrastructures, Hydrodynamics and hydrology, Soil physics, Design and construction materials, etc.		
41040	Agricultural environmental engineering and agricultural information engineering-related	41	F
	Agricultural production facilities, Bioproduction machinery, Environmental control, Agricultural meteorology and micrometeorology, Agricultural information, Greenhouse horticulture, Plant factory, Postharvest and supply chain, Nondestructive measurement, Remote sensing and geographic information system, etc.		
41050	Environmental agriculture-related	41	F
	Biomass, Environmental manipulation, Biodiversity, Environmental analysis, Ecosystem services, Resources circulation system, Low-carbon societies, Life-cycle assessment, Environmental friendly agriculture, Watershed management, etc.		
42010	Animal production science-related	42	F
	Breeding/genetics, Reproduction, Nutrition/feeding, Anatomy/physiology, Product, Environment, Behavior, Therapy, Grassland, Grazing, etc.		
42020	Veterinary medical science-related	42	F
	Basic veterinary science, Pathological veterinary science, Applied veterinary science, Clinical veterinary science, Animal nursing, Animal welfare, Wildlife, etc.		
42030	Animal life science-related	42	F
	Homeostasis, Cellular function, Biological defense, Integrated genetics, Development/differentiation, Biotechnology, etc.		
42040	Laboratory animal science-related	42	F
	Genetic engineering, Developmental engineering, Animal models of disease, Facility management, Laboratory animal welfare, Laboratory animal-related technology, Bioresource, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
43010	Molecular biology-related	43	G
	Chromosome function, Chromatin, Epigenetics, Genome maintenance, Genome transmission, Chromosome re-organization, Gene expression, Non-coding RNA, Regulation of protein function, Molecular genetics, etc.		
43020	Structural biochemistry-related	43	G
	Proteins, Nucleic acids, Lipids, Carbohydrates, Biological membrane, Molecular recognition, Denaturation, Three-dimensional structural analysis, Three-dimensional structural prediction, Molecular dynamics, etc.		
43030	Functional biochemistry-related	43	G
	Enzymes, Sugar chain, Bioenergy conversion, Biological trace elements, Physiologically active substances, Cell signaling, Membrane transport, Proteolysis, Molecular recognition, etc.		
43040	Biophysics-related	43	G
	Structure biology, Physical property of biomolecules, Biomembrane, Photobiology, Molecular motor, Biometrics, Bioimaging, Systems biology, Synthetic biology, Theoretical biology, etc.		
43050	Genome biology-related	43	G
	Genome organization, Genome function, Genome diversity, Molecular evolution of genome, Genome repair/maintenance, Trans-omics, Epigenome, Gene resource, Genome dynamics, etc.		
43060	System genome science-related	43	G
	Network analyses, Synthetic biology, Biological databases, Bioinformatics, Genome analysis technology, Genome biotechnology, etc.		
44010	Cell biology-related	44	G
	Cytoskeleton, Proteolysis, Organelle dynamics, Nuclear structure and function, Extracellular matrix, Signal transduction, Cell cycle, Cell motility, Cell-cell interaction, Cellular genetics, etc.		
44020	Developmental biology-related	44	G
	Cell differentiation, Stem cells, Regeneration, Germ layer formation, Morphogenesis, Organogenesis, Fertilization, Germ cells, Regulation of gene expression, Developmental genetics, Evolution and development, etc.		
44030	Plant molecular biology and physiology-related	44	G
	Photosynthesis, Growth physiology, Plant development, Organelle, Cell wall, Responses to environment, Plant-microbe interaction, Metabolism, Plant molecular function, etc.		
44040	Morphology and anatomical structure-related	44	G
	Animal and plant morphology, Micro-organismal morphology, Molecular morphology, Microstructure, Tissue organization, Morphogenesis, Comparative endocrinology, Microscopic technology, Imaging, etc.		
44050	Animal physiological chemistry, physiology and behavioral biology-related	44	G
	Metabolic physiology, Neurophysiology, Neuroethology, Behavioral physiology, Animal physiological chemistry, Chronobiology, Comparative physiology, etc.		
45010	Genetics-related	45	G
	Genetic mechanism, Molecular genetics, Cellular genetics, Population genetics, Evolutionary genetics, Developmental genetics, Behavioral genetics, Genetic diversity, etc.		
45020	Evolutionary biology-related	45	G
	General evolutionary biology, Molecular evolution, Phenotypic evolution, Evolution of developmental traits, Evolution of ecological traits, Evolution of behaviors, Experimental evolution, Evolutionary theory, Evolution of symbiosis, Phylogenetics, Speciation, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
45030	Biodiversity and systematics-related	45	G
	Taxonomic characters, Taxon, Classification system, Biodiversity, Phylogenetics, Evolution, Natural history, Speciation, etc.		
45040	Ecology and environment-related	45	G
	Chemical ecology, Molecular ecology, Physiological ecology, Evolutionary ecology, Behavioral ecology, Population ecology, Community ecology, Ecosystem, Conservation ecology, Natural environment, etc.		
45050	Physical anthropology-related	45	G
	Molecular anthropology and genetics, Morphology and function, Bioarchaeology, Behavior and cognition, Ecology, Primates, Evolution, Development and ontogeny, Variation and diversity, etc.		
45060	Applied anthropology-related	45	G
	Physiological anthropology, Ergonomics, Forensic anthropology, Medical anthropology, Physiological polymorphisms, Environmental adaptability, Somatic and physiological function, Anthropometry and bioengineering, etc.		
46010	Neuroscience-general-related	46	G
	Neurochemistry, Neuron, Glia, Genome, Epigenetics, Neurobiology, Information processing, Synapse, Neurogenesis, etc.		
46020	Anatomy and histopathology of nervous system-related	46	G
	Neural development, Anatomy of nervous system, Neural network structure, Neuropathology, etc.		
46030	Function of nervous system-related	46	G
	Neurophysiology, Neuropharmacology, Neurotransmission, Neuroinformatics, Behavioral neuroscience, Neural system physiology, Cerebral blood flow, Autonomic nervous system, etc.		
47010	Pharmaceutical chemistry and drug development sciences-related	47	H
	Inorganic chemistry, Organic chemistry, Medicinal chemistry, Medicinal molecular design, Drug discovery, Bio-related materials, Chemical biology, etc.		
47020	Pharmaceutical analytical chemistry and physicochemistry-related	47	H
	Environmental analysis, Bioanalysis, Physicochemistry, Biophysics, Structural biology, Radiochemistry, Bioimaging, Drug formulation design, Computer science, Information science, etc.		
47030	Pharmaceutical hygiene and biochemistry-related	47	H
	Environmental hygiene, Healthful nutrition, Disease prevention, Toxicology, Drug metabolism, Host defense, Molecular biology, Cell biology, Biochemistry, etc.		
47040	Pharmacology-related	47	H
	Pharmacology, Pharmacogenomics, Applied pharmacology, Signal transduction, Drug interactions, Drug response, Pharmacotherapy, Pharmacotoxicology, etc.		
47050	Environmental and natural pharmaceutical resources-related	47	H
	Environmental resource science, Natural products chemistry, Bioactive natural compounds, Medicinal resources, Medicinal foods, Pharmaceutical microbiology, etc.		
47060	Clinical pharmacy-related	47	H
	Pharmacokinetics, Medical informatics, Social pharmacy, Clinical pharmacy, Pharmaceutics, Regulatory science, Education for the pharmacist, etc.		
48010	Anatomy-related	48	H
	Macroscopic anatomy, Histology, Embryology, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
48020	Physiology-related	48	H
	General physiology, Pathophysiology, Comparative physiology, Environmental physiology, etc.		
48030	Pharmacology-related	48	H
	Genomic pharmacology, Molecular and cellular pharmacology, Pathological pharmacology, Behavioral pharmacology, Pharmacology for drug discovery, Clinical pharmacology, etc.		
48040	Medical biochemistry-related	48	H
	Biofunctional molecular and medical biochemistry, Genome medical sciences, Human genetics, Disease model, etc.		
49010	Pathological biochemistry-related	49	H
	Molecular pathology, Metabolic disorders, Molecular diagnosis, etc.		
49020	Human pathology-related	49	H
	Molecular pathology, Cyto- and histo-pathology, Diagnostic pathology, etc.		
49030	Experimental pathology-related	49	H
	Disease models, Pathological regulation, Tissue regeneration, etc.		
49040	Parasitology-related	49	H
	Parasite, Vector organism, Parasite pathogenicity, Epidemiology of parasites, Control of parasite infections, etc.		
49050	Bacteriology-related	49	H
	Bacterium, Fungus, Antimicrobial resistance, Bacterial pathogenicity, Epidemiology of bacteria, Control of bacterial infections, etc.		
49060	Virology-related	49	H
	Virus, Prion, Viral pathogenicity, Epidemiology of viruses, Control of viral infections, etc.		
49070	Immunology-related	49	H
	Immune system, Immune response, Inflammation, Immune-related disorder, Immune regulation, etc.		
50010	Tumor biology-related	50	I
	Cancer and gene, Tumor development, Invasion, Metastasis, Cancer microenvironment, Cancer and signal transduction, Characteristics of cancer cells, etc.		
50020	Tumor diagnostics and therapeutics-related	50	I
	Genome analysis, Diagnostic markers, Molecule imaging, Chemotherapy, Nucleic acid therapy, Gene therapy, Immunotherapy, Molecular targeted therapy, Physical therapy, Radiation therapy, etc.		
51010	Basic brain sciences-related	51	I
	Brain-machine interface, Model animal, Computational brain science, Brain information decoding, Control technologies, Brain imaging, Brain biometrics, etc.		
51020	Cognitive and brain science-related	51	I
	Social behavior, Communication, Emotion, Decision making, Consciousness, Learning, Neuroeconomics, Neuropsychology, etc.		
51030	Pathophysiological neuroscience-related	51	I
	Clinical neuroscience, Dolorology, Sensory impairment, Movement disorder, Neurological disorder, Neurogenesis, Neuroimmunology, Cellular degeneration, Disease model, etc.		



Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
52010	General internal medicine-related	52	I
	Laboratory medicine, General practice, Geriatrics, Psychosomatic internal medicine, Oriental medicine, Palliative medicine, etc.		
52020	Neurology-related	52	I
	Neurology, Neurofunctional imaging, etc.		
52030	Psychiatry-related	52	I
	Clinical psychiatry, Biological psychiatry, Forensic mental health, etc.		
52040	Radiological sciences-related	52	I
	Diagnostic radiology, Therapeutic radiology, Radiation biology, Radiological technology, etc.		
52050	Embryonic medicine and pediatrics-related	52	I
	Fetal medicine, Neonatal medicine, Pediatrics, etc.		
53010	Gastroenterology-related	53	I
	Upper digestive tract, Lower digestive tract, Liver, Biliary tract, Pancreas, etc.		
53020	Cardiology-related	53	I
	Ischemic heart disease, Valvular heart disease, Arrhythmia, Cardiomyopathy, Heart failure, Peripheral arterial disease, Arteriosclerosis, Hypertension, etc.		
53030	Respiratory medicine-related	53	I
	Respiratory medicine, Asthma, Diffusive lung disease, COPD, Lung cancer, Pulmonary hypertension, etc.		
53040	Nephrology-related	53	I
	Acute renal failure, Chronic kidney disease, Diabetic nephropathy, Hypertension, Aqueous electrolyte metabolism, Artificial dialysis, etc.		
53050	Dermatology-related	53	I
	Dermatology, Cutaneous immune disease, Cutaneous infection, Cutaneous tumor, etc.		
54010	Hematology and medical oncology-related	54	I
	Hematological oncology, Hematological immunology, Anemia, Thrombosis and hemostasis, Chemotherapy, etc.		
54020	Connective tissue disease and allergy-related	54	I
	Connective tissue disease, Allergy, Clinical immunology, Inflammation, etc.		
54030	Infectious disease medicine-related	54	I
	Infection diagnostics, Infection therapeutics, Host defense, International infection science, etc.		
54040	Metabolism and endocrinology-related	54	I
	Energy balance, Glucose metabolism, Lipid metabolism, Purine metabolism, Bone metabolism, Electrolyte balance, Endocrinology, Neuroendocrinology, Reproductive endocrinology, etc.		
55010	General surgery and pediatric surgery-related	55	I
	Surgical basic principles, Breast surgery, Endocrine surgery, Pediatric surgery, Transplant surgery, Artificial organs science, Regeneration, Operation support, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
55020	Digestive surgery-related	55	I
	Upper gastrointestinal surgery, Lower gastrointestinal surgery, Hepatic surgery, Biliary surgery, Pancreatic surgery, etc.		
55030	Cardiovascular surgery-related	55	I
	Coronary artery surgery, Heart valve surgery, Surgery for myocardial disease, Aortic surgery, Vascular surgery, Congenital heart surgery, etc.		
55040	Respiratory surgery-related	55	I
	Lung surgery, Mediastinal surgery, Chest wall surgery, Respiratory tract surgery, etc.		
55050	Anesthesiology-related	55	I
	Anesthesiology, Perioperative management, Pain management, Resuscitology, Palliative medicine, etc.		
55060	Emergency medicine-related	55	I
	Intensive care medicine, Emergency resuscitation science, Trauma surgery, Disaster medicine, Disaster medical care, etc.		
56010	Neurosurgery-related	56	I
	Neurosurgery, Spine and spinal cord diseases, etc.		
56020	Orthopedics-related	56	I
	Orthopedics, Rehabilitation medicine, Sports medicine, etc.		
56030	Urology-related	56	I
	Urology, Male genitalia science, etc.		
56040	Obstetrics and gynecology-related	56	I
	Obstetrics, Reproductive endocrinology, Gynecologic oncology, Female health care medicine, etc.		
56050	Otorhinolaryngology-related	56	I
	Otorhinolaryngology, Head and neck surgery, etc.		
56060	Ophthalmology-related	56	I
	Ophthalmology, Ophthalmological optics, etc.		
56070	Plastic and reconstructive surgery-related	56	I
	Plastic surgery, Reconstructive surgery, Aesthetic plastic surgery, etc.		
57010	Oral biological science-related	57	I
	Oral anatomy, Oral histology and embryology, Oral physiology, Oral biochemistry, Pharmacology for hard tissues, etc.		
57020	Oral pathobiological science-related	57	I
	Oral infectious diseases, Oral pathology, Oral experimental oncology, Immunity and inflammation, Laboratory medicine, etc.		
57030	Conservative dentistry-related	57	I
	Operative dentistry, Endodontology, Periodontology, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
57040	Regenerative dentistry and dental engineering-related	57	I
	Regenerative dentistry, Biomaterial science, Dental materials science, Oral and maxillofacial prosthetics, Oral implantology, etc.		
57050	Prosthodontics-related	57	I
	Prosthodontics, Oral rehabilitation, Gerodontology, etc.		
57060	Surgical dentistry-related	57	I
	Oral and maxillofacial surgery, Oral maxillofacial reconstructive surgery, Dental anesthesiology, Psychosomatic medicine dentistry, Dental radiology, etc.		
57070	Developmental dentistry-related	57	I
	Orthodontics, Pediatric dentistry, etc.		
57080	Social dentistry-related	57	I
	Dental hygiene, Preventive dentistry, Oral health administration and management, Dental education, Forensic odontology, etc.		
58010	Medical management and medical sociology-related	58	I
	Medical management, Medical social science, Ethics for medical science, Ethics for medical care, Biomedical education, History of medical science, Health policy and economics, Clinical trials, Health and medical services administration, Disaster medical science, etc.		
58020	Hygiene and public health-related: including laboratory approach	58	I
	Hygiene, Public health, Epidemiology, Global health, etc.		
58030	Hygiene and public health-related: excluding laboratory approach	58	I
	Hygiene, Public health, Epidemiology, Global health, etc.		
58040	Forensics medicine-related	58	I
	Forensic medicine, Forensic pathology, Forensic toxicology, Forensic genetics, Suicide, Abuse, Clinical forensic medicine, Sudden death, etc.		
58050	Fundamental of nursing-related	58	I
	Fundamental of nursing, Nursing education, Nursing administration, etc.		
58060	Clinical nursing-related	58	I
	Critical care and emergency nursing, Perioperative nursing, Nursing of chronic illness, Oncology nursing, Psychiatric nursing, Palliative care nursing, etc.		
58070	Lifelong developmental nursing-related	58	I
	Women's health nursing, Maternal nursing, Midwifery, Family health nursing, Child health nursing, School nursing, etc.		
58080	Gerontological nursing and community health nursing-related	58	I
	Gerontological nursing, Community health nursing, Public health nursing, Disaster nursing, etc.		
59010	Rehabilitation science-related	59	I
	Rehabilitation medicine, Rehabilitation nursing, Rehabilitation medical care, Physiotherapeutics, Occupational therapy, Assistive technology, Speech and language therapy, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
59020	Sports sciences-related	59	I
	Sports physiology, Sports biochemistry, Sports medicine, Sports sociology, Sports management, Sports psychology, Sports education, Training science, Sports biomechanics, Adapted sports science, Doping, etc.		
59030	Physical education, and physical and health education-related	59	I
	Growth developmental science, Physical and health education, Physical education in school, Educational physiology, Physical systems science, Higher brain function science, Martial arts theory, Outdoor education, etc.		
59040	Nutrition science and health science-related	59	I
	Nutritional physiology, Nutritional biochemistry, Nutritional education, Clinical nutrition, Functional food, Lifestyle-related disease, Health promotion, Aging, etc.		
60010	Theory of informatics-related	60	J
	Discrete structure, Mathematical logic, Theory of computation, Mathematical theory of programs, Computational complexity theory, Algorithm theory, Information theory, Coding theory, Theory of cryptography, Learning theory, etc.		
60020	Mathematical informatics-related	60	J
	Optimization theory, Mathematical systems theory, System control theory, System analysis, System methodology, System modeling, System simulation, Combinatorial optimization, Queueing theory, Mathematical finance, etc.		
60030	Statistical science-related	60	J
	Statistics, Data science, Modeling, Statistical inference, Multivariate analysis, Time series analysis, Statistical quality control, Applied statistics, etc.		
60040	Computer system-related	60	J
	Computer architecture, Circuit and system, LSI design, LSI testing, Reconfigurable system, Dependable architecture, Low power technology, Hardware/software codesign, Embedded system, etc.		
60050	Software-related	60	J
	Programming language, Programming methodology, Operating system, Parallel and distributed computing, Software engineering, Virtualization technology, Cloud computing, Software dependability, Software security, etc.		
60060	Information network-related	60	J
	Network architecture, Network protocol, Internet, Mobile network, Pervasive computing, Sensor network, IoT, Traffic engineering, Network management, Service platform technology, etc.		
60070	Information security-related	60	J
	Cryptography, Tamper resistance technology, Authentication, Biometrics, Access control, Malware countermeasure, Countermeasures against denial-of-service attacks, Privacy protection, Digital forensics, Security evaluation and authorization, etc.		
60080	Database-related	60	J
	Data model, Database system, Multimedia database, Information retrieval, Content management, Metadata, Big data, Geographic information system, etc.		
60090	High performance computing-related	60	J
	Parallel processing, Distributed processing, Cloud computing, Numerical analysis, Visualization, Computer graphics, High performance computing application, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
60100	Computational science-related	60	J
	Mathematical engineering, Computational mechanics, Numerical simulation, Multi-scale modeling, Large-scale computing, Massively parallel computing, Numerical computing methods, Advanced algorithms, etc.		
61010	Perceptual information processing-related	61	J
	Pattern recognition, Image processing, Computer vision, Visual media processing, Acoustic media processing, Media editing, Media database, Sensing, Sensor fusion, etc.		
61020	Human interface and interaction-related	61	J
	Human interface, Multi-modal interface, Human-computer interaction, Computer supported cooperative work, Virtual reality, Augmented reality, Realistic communication, Wearable device, Usability, Ergonomics, etc.		
61030	Intelligent informatics-related	61	J
	Search, Inference, Machine learning, Knowledge acquisition, Intelligent system, Intelligent information processing, Natural language processing, Data mining, Ontology, Agent system, etc.		
61040	Soft computing-related	61	J
	Neural network, Evolutionary computation, Fuzzy theory, Chaos, Complex systems, Probabilistic information processing, etc.		
61050	Intelligent robotics-related	61	J
	Intelligent robot, Behavior and environment recognition, Planning, Sensory behavior system, Autonomous system, Digital human, Real world information processing, Physical agents, Intelligent space, etc.		
61060	Kansei informatics-related	61	J
	Kansei design, Kansei cognitive science, Kansei psychology, Kansei robotics, Kansei measurement evaluation, Kansei interface, Kansei physiology, Kansei material science, Kansei pedagogy, Kansei brain science, etc.		
62010	Life, health and medical informatics-related	62	J
	Bioinformatics, Life informatics, Biological information, Neuroinformatics, Neural information processing, Molecular computing, DNA computing, Medical information, Health information, Medical image, etc.		
62020	Web informatics and service informatics-related	62	J
	Web system, Social web, Semantic web, Web mining, Social network analysis, Service engineering, Educational service, Medical service, Welfare service, Social service, Information culture, etc.		
62030	Learning support system-related	62	J
	Media literacy, Learning media, Social media, Learning content, Learning management, Learning support, Remote learning, e-Learning, etc.		
62040	Entertainment and game informatics-related	62	J
	Music information processing, 3D content, Animation, Game programming, Network entertainment, Media art, Digital museum, Experience design, etc.		
63010	Environmental dynamic analysis-related	63	K
	Global warming, Environmental change, Water and material cycle, Polar regions, Chemical oceanography, Biological oceanography, Environmental measurements, Environmental model, Environmental information, Remote sensing, etc.		
63020	Radiation influence-related	63	K
	Radiation, Measurement, Control, Repair, Biological effects, Risk, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
63030	Chemical substance influence on environment-related	63	K
	Toxicology, Toxic substance to human, Trace chemical substance, Endocrine disruptor, Repair, etc.		
63040	Environmental impact assessment-related	63	K
	Atmosphere, Hydrosphere, Terrestrial impact, Impact assessment on human health, Social and economic impacts, Impact assessment on the future generation, Environmental impact assessment, Assessment methods, Monitoring, Simulation, etc.		
64010	Environmental load and risk assessment-related	64	K
	Environmental analysis, Environmental load analysis, Environmental monitoring, Dynamics of environmental pollution, Environmental modelling, Evaluation of contamination, Exposure assessment, Toxicity evaluation, Environmental assessment, Chemical substance management, etc.		
64020	Environmental load reduction and remediation-related	64	K
	Removal of contamination, Treatment of waste material, Control of contamination source, Disposal of waste material, Environmental load reduction, Remediation measure of contamination, Noise and vibration reduction, Countermeasure of ground settlement, Bioremediation, Radioactive decontamination, etc.		
64030	Environmental materials and recycle technology-related	64	K
	Recycle materials, Valuable materials recovery, Separation, refining and purification, Environment-conscious design, Recycle chemistry, Green production, Zero emission, Resource circulation, Renewable energy, Biomass utilization, etc.		
64040	Social-ecological systems-related	64	K
	Biodiversity, Conservation biology, Ecosystem services, Natural capital, Impact analysis on ecosystem, Ecosystem management, Ecosystem restoration, Ecological engineering, Regional environmental planning, Impact of climate change, etc.		
64050	Sound material-cycle social systems-related	64	K
	Sound material-cycle systems, Material and energy budget analysis, Low carbon society, Unused energy, Regional revitalization, Water use system, Industrial symbiosis, Life cycle assessment (LCA), Integrated environmental management, 3R (reduction, reuse, recycle) social systems, etc.		
64060	Environmental policy and social systems-related	64	K
	Environmental philosophy and ethics, Environmental laws, Environmental economics, Environmental information, Environmental education, Environmental social activities, Environmental management and governance, Consensus forming, Environmental safety and security, Social and public system, Sustainable development, etc.		
90010	Design-related	1, 23, 61	A, C, J
	Information design, Environmental design, Industrial design, Spatial design, Design history, Theory of design, Design standard, Design support, Evaluation of design, Design education, etc.		
90020	Library and information science, humanistic and social informatics-related	2, 62	A, J
	Library science, Information services, Information organizing, Information retrieval, Information media, Bibliometrics, Information resources, Information ethics, Digital humanities, Social Informatics, Digital archives, etc.		
90030	Cognitive science-related	10, 61	A, J
	Cognitive science in general, Cognitive models, Kansei, Human factors, Cognitive and brain science, Comparative cognition, Cognitive linguistics, Cognitive engineering, etc.		

Basic Section	Examples of related research content	Medium-sized Sections and Broad Section corresponding Basic Sections	
		Medium-sized Section	Broad Section
90110	Biomedical engineering-related	90	D, I
	Medical imaging, Medical modeling, Biological simulation, Biometrics, Artificial organs, Tissue engineering, Biophysical properties, Biocontrol, Biomechanics, Nanobio systems, etc.		
90120	Biomaterials-related	90	D, I
	Biofunctional materials, Tissue engineering materials, Biocompatible materials, Nanobio materials, Drug delivery systems, Stimuli-sensitive materials, Genetic engineering material, etc.		
90130	Medical systems-related	90	D, I
	Medical ultrasound system, Diagnostic imaging system, Laboratory diagnosis systems, Minimally invasive treatment systems, Remote diagnosis and treatment systems, Organ preservation systems, Medical information systems, Computer-assisted surgery, Medical robot, etc.		
90140	Medical technology assessment-related	90	D, I
	Regulatory science, Safety evaluation, Clinical study, Medical technology ethics, Medical devices, etc.		
90150	Medical assistive technology-related	90	D, I
	Healthcare and rehabilitation engineering, Life assist technology, Care support technology, Accessibility design, Universal design, Rehabilitation and nursing robot, Assist device for artificial internal organ, Rehabilitation devices, Nursing science and engineering, etc.		

**The Review Section Table (Table for Medium-sized and Broad Sections)**

When selecting a review section, applicants should first acquire an overall picture of the review sections based on the Review Section Table (Overview). In addition, check the Review Section Table (Table for Medium-sized and Broad Sections) for the detailed contents of each section and select a review section for their research proposal.

Also, some items of Basic Section may be presented in plural Medium-sized and Broad Sections. The items of Basic Section presented in plural Medium-sized Section are 9 and 3 items among 9 are presented in plural Medium-sized and Broad Sections (as shown below).

In addition, five other Basic Sections (90110-90150) may be presented in only one Medium-sized Section and two Broad Sections.

**【Basic sections may be presented in plural Medium-sized and Broad Section】**

Basic Section Item	Basic Section Description	Medium-sized Sections corresponding Basic Sections	Broad Sections corresponding Basic Sections
02090	Japanese language education-related	2, 9	A
02100	Foreign language education-related	2, 9	A
80010	Area studies-related	4, 6	A
80020	Tourism studies-related	4, 7, 8	A
80030	Gender studies-related	4, 6, 8	A
80040	Quantum beam science-related	1 4, 1 5	B
90010	Design-related	1, 2 3, 6 1	A, C, J
90020	Library and information science, humanistic and social informatics-related	2, 6 2	A, J
90030	Cognitive science-related	1 0, 6 1	A, J
90110	Biomedical engineering-related	9 0	D, I
90120	Biomaterials-related	9 0	D, I
90130	Medical systems-related	9 0	D, I
90140	Medical technology assessment-related	9 0	D, I
90150	Medical assistive technology-related	9 0	D, I

**【Medium-sized section may be presented in plural Broad Section】**

Medium-sized Section Item	Medium-sized section Description	Broad Sections corresponding Medium-sized Section
9 0	Biomedical engineering and related fields	D, I



Broad Section A

Medium-sized Section 1 :Philosophy, art, and related fields

Basic Section	Examples of related research content
01010	Philosophy and ethics-related
	Philosophy in general, Ethics in general, Western philosophy, Western ethics, Japanese philosophy, Japanese ethics, Applied ethics, etc.
01020	Chinese philosophy, Indian philosophy and Buddhist philosophy-related
	Chinese philosophy/thought, Indian philosophy/thought, Buddhist philosophy, Bibliography, Philology, etc.
01030	Religious studies-related
	History of religions, Philosophy of religion, Theology, Sociology of religion, Psychology of religion, Anthropology of religion, Studies of religious folklore, Mythology, Bibliography, Philology, etc.
01040	History of thought-related
	History of thought in general, History of Western thought, History of Eastern thought, History of Japanese thought, etc.
01050	Aesthetics and art studies-related
	Philosophy of art, Aesthetics, Miscellaneous art studies, etc.
01060	History of arts-related
	Japanese art, Eastern art, Western art, Contemporary art, Craft, Design, Architecture, Costume, Photography, etc.
01070	Theory of art practice-related
	Art expression, Arts management, Art policy, Art production, etc.
01080	Sociology of science, history of science and technology-related
	Sociology of science, History of science, History of technology, History of medicine, Industrial archeology, Philosophy of science, Foundation of science, STS (Science, technology and society), etc.
90010	Design-related
	Information design, Environmental design, Industrial design, Spatial design, Design history, Theory of design, Design standard, Design support, Evaluation of design, Design education, etc.

Medium-sized Section 2 : Literature, linguistics, and related fields

Basic Section	Examples of related research content
02010	Japanese literature-related
	Japanese literature in general, Ancient literature, Medieval literature, Chinese classics in Japan, Bibliography, Philology, Premodern literature, Modern literature, Contemporary literature, Literary theory, etc.
02020	Chinese literature-related
	Chinese literature, Bibliography, Philology, Literary theory, etc.
02030	English literature and literature in the English language-related
	English literature, American literature, Literature in the English language, Literary theory, Bibliography, Philology, etc.
02040	European literature-related
	French literature, Literature in the French language, German literature, Literature in the German language, Classics, Russian and East European literature, Literature in other European languages, Literary theory, Bibliography, Philology, etc.

02050	Literature in general-related
	Literature in other languages and areas, Literary theory, Comparative literature, Bibliography, Philology, Literature education, etc.
02060	Linguistics-related
	Phonetics/phonology, Semantics/pragmatics, Morphosyntax, Sociolinguistics, Contrastive linguistics, Psycholinguistics, Neurolinguistics, Historical linguistics, Corpus linguistics, Endangered and minority languages, etc.
02070	Japanese linguistics-related
	Phonetics/phonology, Writing systems, Lexicon and semantics, Grammar, Stylistics, Pragmatics, Language life, Dialect, History of the Japanese language, History of Japanese linguistics, etc.
02080	English linguistics-related
	Phonetics/phonology, Lexicon and semantics, Grammar, Stylistics, Pragmatics, Sociolinguistics, Diversity of the English language, Corpus linguistics, History of the English language, History of English linguistics, etc.
02090	Japanese language education-related
	Research on learners, Language acquisition, Teaching material, Curriculum evaluation, Japanese language education for specific purposes, Bilingual education, Research on teachers, Japanese language for Japanese language education, History of Japanese language education, Cross-cultural understanding, etc.
02100	Foreign language education-related
	Learning method, Computer-assisted language learning (CALL), Teaching material, Language testing, Theory of second language acquisition, Early English education, History of foreign language education and language policies, Curriculum evaluation, Training foreign language teachers, Cross-cultural understanding, etc.
90020	Library and information science, humanistic and social informatics-related
	Library science, Information services, Information organizing, Information retrieval, Information media, Bibliometrics, Information resources, Information ethics, Digital humanities, Social Informatics, Digital archives, etc.

## Medium-sized Section 3 : History, archaeology, museology, and related fields

Basic Section	Examples of related research content
03010	Historical studies in general-related
	Historical theory, Historical methodology, Research in historical materials, Memory and medium, World history, History of cultural and diplomatic exchange, Comparative history, etc.
03020	Japanese history-related
	Japanese history in general, History of ancient Japan, History of medieval Japan, History of early modern Japan, History of modern Japan, History of local Japan, History of Japanese culture, History of Japanese religion, History of Japanese environment, History of Japanese city, History of cultural and diplomatic exchange, Comparative history, Research in historical materials, etc.
03030	History of Asia and Africa-related
	History of pre-modern China, History of modern China, East Asian history, Central Eurasian history, Southeast Asian history, Oceanian history, South Asian history, West Asian history, African history, History of cultural and diplomatic exchange, Comparative history, Research in historical materials, etc.
03040	History of Europe and America-related
	Ancient European history, Medieval European history, Modern and contemporary West European history, Modern and contemporary East European history, North and South American history, History of cultural and diplomatic exchange, Comparative history, Research in historical materials, etc.
03050	Archaeology-related
	Archaeology in general, Prehistoric archaeology, Historical archaeology, Japanese archaeology, Asian archaeology, Ancient civilizations, History of material culture, Experimental archaeology, Information archaeology, Study of buried cultural property, etc.

03060	Cultural assets study-related
	Dating methods, Material analysis, Production techniques, Conservation science, Archaeological prospection, Plant and animal residues, Human remains, Cultural heritage, Cultural resources, Cultural property policy, etc.
03070	Museology-related
	Exhibition studies, Museum pedagogy, Museum informatics, Museum business management, Public finance and administration of museums, Museum material resources, History of museology, etc.

## Medium-sized Section 4: Geography, cultural anthropology, folklore, and related fields

Basic Section	Examples of related research content
04010	Geography-related
	Geography in general, Land use, Landscape, Environmental system, Geomorphology, Climatology, Hydrology, Cartography, Geographic information system, Regional planning, etc.
04020	Human geography-related
	Human geography in general, Economic geography, Social geography, Political geography, Cultural geography, Urban geography, Rural geography, Historical geography, Regional geography, Geography education, etc.
04030	Cultural anthropology and folklore-related
	Cultural anthropology in general, Folklore in general, Material culture, Ecology, Social relationship, Religion, Arts, Health care, Border crossing, Minority, etc.
80010	Area studies-related
	Area studies in general, Cross-regional comparative studies, Aid, International cooperation, Interregional exchange, Environment, Transnationalism, Globalization, Social development, etc.
80020	Tourism studies-related
	Tourism studies in general, Tourism, Tourism resources, Tourism policy, Tourism industry, Regional development, Tourists, Pilgrimage, etc.
80030	Gender studies-related
	Gender studies in general, Feminism, Sexuality, Queer studies, Labor, Violence, Prostitution, Reproductive technology, Gender equality, etc.

## Medium-sized Section 5 : Law and related fields

Basic Section	Examples of related research content
05010	Legal theory and history-related
	Legal philosophy, Roman law, Legal history, Sociology of law, Comparative law, Foreign law, Law and policy, Law and economics, Judicial system, etc.
05020	Public law-related
	Constitutional law, Administrative law, Tax law, etc.
05030	International law-related
	Public international law, Private international law, International human rights law, International economic law, EU law, etc.
05040	Social law-related
	Labor law, Economic law, Social security law, Education law, etc.
05050	Criminal law-related
	Criminal law, Criminal procedure, Criminology, Criminal justice policy, Juvenile law, Law and psychology, etc.
05060	Civil law-related
	Civil law, Commercial law, Civil procedure, Insolvency law, Alternative dispute resolution, etc.

05070	New fields of law-related Environmental law, Medical law, Information law, Consumer law, Intellectual property law, Law and gender, Legal profession, etc.
Medium-sized Section 6 : Political science and related fields	
Basic Section	Examples of related research content
06010	Politics-related Political theory, History of political thought, Political history, Japanese political history, Japanese politics, Political process, Electoral studies, Political economy, Public administration, Local government, Comparative politics, Public policy, etc.
06020	International relations-related Theory of international relations, Modern international relations, Diplomatic history, International history, Foreign policy, International security, International political economy, Global governance, International cooperation, etc.
80010	Area studies-related Area studies in general, Cross-regional comparative studies, Aid, International cooperation, Interregional exchange, Environment, Transnationalism, Globalization, Social development, etc.
80030	Gender studies-related Gender studies in general, Feminism, Sexuality, Queer studies, Labor, Violence, Prostitution, Reproductive technology, Gender equality, etc.
Medium-sized Section 7 : Economics, business administration, and related fields	
Basic Section	Examples of related research content
07010	Economic theory-related Microeconomics, Macroeconomics, Game theory, Behavioral economics, Experimental economics, Economic theory, Evolutionary economics, Economic institutions, Economic systems, etc.
07020	Economic doctrines and economic thought-related Economic doctrines, Economic thought, Social thought, Economic philosophy, etc.
07030	Economic statistics-related Statistical system, Statistical research, Population statistics, Income/wealth distribution, National accounts, Econometrics, Financial econometrics, etc.
07040	Economic policy-related International economics, Industrial organization, Economic development, Urban economics, Regional economy, Environmental and resource economics, Japanese economy, Economic policy, Transportation economics, Development economics, International development, etc.
07050	Public economics and labor economics-related Public finance, Public economics, Health economics, Labor economics, Social security, Education economics, Law and economics, Political economy, etc.
07060	Money and finance-related Monetary economics, Finance, International finance, Corporate finance, Financial engineering, Insurance, etc.
07070	Economic history-related Economic history, Business history, Industrial history, etc.
07080	Business administration-related Corporation theory, Organization theory, Organizational behavior, Corporate strategy, Business management, Human resource management, Management of technology, International business, Management information, Industrial management, Management in general, etc.

07090	Commerce-related
	Marketing, Consumer behavior, Distributive sciences, Logistics, Commerce in general, etc.
07100	Accounting-related
	Financial accounting, Management accounting, Auditing, Accounting in general, etc.
80020	Tourism studies-related
	Tourism studies in general, Tourism, Tourism resources, Tourism policy, Tourism industry, Regional development, Tourists, Pilgrimage, etc.

## Medium-sized Section 8 : Sociology and related fields

Basic Section	Examples of related research content
08010	Sociology-related
	Sociology in general, Community, Family, Labor, Sociology of welfare, Gender, Media, Ethnicity, Social movements, Social research, Sociology of medicine, Social demography, etc.
08020	Social welfare-related
	Social work, Social policy, Social welfare history, Child welfare, Social welfare for people with disabilities, Social welfare for aging, Community welfare, Poverty, Volunteerism, Social welfare in general, etc.
08030	Family and consumer sciences, and culture and living-related
	Culture and living, Home economics, Consumer affairs, Lifestyle, Culture of clothing, Culture of food, Culture of dwelling, Dress and fashion, Diet habits, Housing, Family and consumer sciences in general, Family and consumer education, etc.
80020	Tourism studies-related
	Tourism studies in general, Tourism, Tourism resources, Tourism policy, Tourism industry, Regional development, Tourists, Pilgrimage, etc.
80030	Gender studies-related
	Gender studies in general, Feminism, Sexuality, Queer studies, Labor, Violence, Prostitution, Reproductive technology, Gender equality, etc.

## Medium-sized Section 9 : Education and related fields

Basic Section	Examples of related research content
09010	Education-related
	History of education, Philosophy of education, Curriculum and pedagogy, Evaluation of education, Teacher and trainer, School education, Social and community education, Vocational education and training, Lifelong learning, Institutions and administration, etc.
09020	Sociology of education-related
	Sociology of education, Socialization, Educational organization and system, Destination and career formation, Class disparities, Gender, Education policy, Comparative education, Globalization and development, etc.
09030	Childhood and nursery/pre-school education-related
	Childhood, Nursery/pre-school education, Right of child, Development, Contents and methods of child care, Childcare facilities and kindergarten, Caregiver and pre-school teacher, Child care support, Childhood culture, History and thought, etc.
09040	Education on school subjects and primary/secondary education-related
	Education of individual subjects, Education excluding subjects, Student guidance and counselling, Career education, School management, Teacher education, ESD, Environmental education, Literacy, etc.
09050	Tertiary education-related
	Policy, Admission and articulation, Curriculum, Career guidance, Teacher and staff, Scientific research, Regional link and contribution, Globalization, Management and governance, Non-university higher education, etc.

(Broad Section A)

09060	Special needs education-related
	Philosophy and history, Inclusion and cohesive society, Instructions and supports, Developmental disabilities, Emotional disturbance, Intellectual disabilities, Language disorders, Physical disabilities, Career education, etc.
09070	Educational technology-related
	Curriculum development, Teaching-learning support systems, Utilization of media, Utilization of ICT, Teacher's education, Information literacy, etc.
09080	Science education-related
	Science education, Science communication, Scientific literacy, Science and society, etc.
02090	Japanese language education-related
	Research on learners, Language acquisition, Teaching material, Curriculum evaluation, Japanese language education for specific purposes, Bilingual education, Research on teachers, Japanese language for Japanese language education, History of Japanese language education, Cross-cultural understanding, etc.
02100	Foreign language education-related
	Learning method, Computer-assisted language learning (CALL), Teaching material, Language testing, Theory of second language acquisition, Early English education, History of foreign language education and language policies, Curriculum evaluation, Training foreign language teachers, Cross-cultural understanding, etc.

## Medium-sized Section 10 : Psychology and related fields

Basic Section	Examples of related research content
10010	Social psychology-related
	Social psychology in general, Self, Group, Attitude and behavior, Affection/emotion, Interpersonal relation, Social issues, Culture, etc.
10020	Educational psychology-related
	Educational psychology in general, Development, Family, School, Clinical practice, Personality, Learning, Assessment and evaluation, etc.
10030	Clinical psychology-related
	Clinical psychology in general, Psychological disorder, Assessment, Psychological intervention, Training, Mental health, Crime and delinquency, Community, etc.
10040	Experimental psychology-related
	Experimental psychology in general, Sensation, Perception, Attention, Memory, Language, Emotion, Learning, etc.
90030	Cognitive science-related
	Cognitive science in general, Cognitive models, Kansei, Human factors, Cognitive and brain science, Comparative cognition, Cognitive linguistics, Cognitive engineering, etc.

## Broad Section B

## Medium-sized Section 11 : Algebra, geometry, and related fields

Basic Section	Examples of related research content
11010	Algebra-related
	Group theory, Ring theory, Representation theory, Algebraic combinatorics, Number theory, Arithmetic geometry, Algebraic geometry, Algebraic analysis, etc.
11020	Geometry-related
	Differential geometry, Riemannian geometry, Symplectic geometry, Complex geometry, Topology, Differential topology, Low dimensional topology, etc.

Medium-sized Section 12: Analysis, applied mathematics, and related fields	
Basic Section	Examples of related research content
12010	Basic analysis-related
	Functional analysis, Complex analysis, Probability theory, Harmonic analysis, Operator theory, Spectral analysis, Operator algebras, Algebraic analysis, Representation theory, etc.
12020	Mathematical analysis-related
	Functional equations, Real analysis, Dynamical system, Variational method, Nonlinear analysis, Applied analysis, etc.
12030	Basic mathematics-related
	Mathematical logic and foundations, Information theory, Discrete mathematics, Computer mathematics, etc.
12040	Applied mathematics and statistics-related
	Numerical analysis, Mathematical modelling, Optimal control, Game theory, Statistical mathematics, etc.
Medium-sized Section 13: Condensed matter physics and related fields	
Basic Section	Examples of related research content
13010	Mathematical physics and fundamental theory of condensed matter physics-related
	Statistical physics, Fundamental theory of condensed matter physics, Mathematical physics, Nonequilibrium nonlinear physics, Fluid dynamics, Computational physics, Quantum information theory, etc.
13020	Semiconductors, optical properties of condensed matter and atomic physics-related
	Semiconductors, Dielectrics, Atoms and molecules, Mesoscopic systems, Crystals, Surfaces and interfaces, Optical properties of condensed matter, Quantum electronics, Quantum information, etc.
13030	Magnetism, superconductivity and strongly correlated systems-related
	Magnetism, Strongly correlated electron systems, Superconductivity, Quantum fluids and solids, Molecular solids, etc.
13040	Biophysics, chemical physics and soft matter physics-related
	Physics of biological phenomena, Physics of biological matters, Liquids and glasses, Soft matters, Rheology, etc.
Medium-sized Section 14: Plasma science and related fields	
Basic Section	Examples of related research content
14010	Fundamental plasma-related
	Basic plasmas, Magnetized plasmas, Laser plasmas, Strongly coupled plasmas, Plasma diagnostics, Astrophysical and space plasmas, etc.
14020	Nuclear fusion-related
	Plasma confinement, Plasma control, Plasma heating, Plasma diagnostics, Edge plasma, Plasma wall interaction, Inertial fusion, Fusion material, Fusion system, etc.
14030	Applied plasma science-related
	Plasma processing, Plasma photonics, Plasma material science, General plasma applications, etc.
80040	Quantum beam science-related
	Accelerators, Beam physics, Radiation detectors, Beam control, Applied quantum beam science, etc.

(Broad Section B)

Medium-sized Section 15: Particle-, nuclear-, astro-physics, and related fields	
Basic Section	Examples of related research content
80040	Quantum beam science-related
	Accelerators, Beam physics, Radiation detectors, Beam control, Applied quantum beam science, etc.
15010	Theoretical studies related to particle-, nuclear-, cosmic ray and astro-physics
	Particle physics, Nuclear physics, Cosmic-ray physics, Astrophysics, Relativity, Gravity, etc.
15020	Experimental studies related to particle-, nuclear-, cosmic ray and astro-physics
	Particle physics, Nuclear physics, Cosmic-ray physics, Astrophysics, Relativity, Gravity, etc.
Medium-sized Section 16: Astronomy and related fields	
Basic Section	Examples of related research content
16010	Astronomy-related
	Optical/infrared astronomy, Radio astronomy, Solar physics, Astrometry, Theoretical astronomy, X-ray/ $\gamma$ -ray astronomy, etc.
Medium-sized Section 17: Earth and planetary science and related fields	
Basic Section	Examples of related research content
17010	Space and planetary sciences-related
	Solar-terrestrial physics, Aeronomy, Planetary science, Exoplanetary science, Extraterrestrial material science, etc.
17020	Atmospheric and hydrospheric sciences-related
	Climate system, Atmospheric science, Ocean science, Limnology, Glaciology, Paleoclimatology, etc.
17030	Human geosciences-related
	Geoenvironmental science, Natural disaster science, Geospatial information science, Quaternary research, Earth resources science, etc.
17040	Solid earth sciences-related
	Solid earth geophysics, Geology, Earth's interior material science, Solid earth geochemistry, etc.
17050	Biogeosciences-related
	Origin and evolution of life, Extremophile biology, Biogeochemistry, Paleoenvironmental science, Paleontology, etc.

Broad Section C

Medium-sized Section 18: Mechanics of materials, production engineering, design engineering, and related fields	
Basic Section	Examples of related research content
18010	Mechanics of materials and materials-related
	Structural mechanics, Fatigue, Fracture, Biomaterials, Material design, Material characteristics, Material evaluation, etc.
18020	Manufacturing and production engineering-related
	Machine tools, Machining, Non-traditional machining, Ultraprecision machining, Additive manufacturing, Precision metrology, Manufacturing systems, Computer-aided technology, Process planning, etc.



18030	Design engineering-related
	Product design, Service design, Design for reliability, Maintainability design, Lifecycle engineering, Reverse engineering, Safety design, Design engineering, etc.
18040	Machine elements and tribology-related
	Machine elements, Mechanisms, Tribology, Actuators, Micromachines, etc.
Medium-sized Section 19: Fluid engineering, thermal engineering, and related fields	
Basic Section	Examples of related research content
19010	Fluid engineering-related
	Fluid machinery, Flow measurement, Computational fluid dynamics, Turbulence, Multiphase flow, Compressible flow, Incompressible flow, etc.
19020	Thermal engineering-related
	Heat transfer, Convection, Combustion, Thermophysical properties, Refrigeration and air-conditioning, Heat engine, Energy conversion, etc.
Medium-sized Section 20: Mechanical dynamics, robotics, and related fields	
Basic Section	Examples of related research content
20010	Mechanics and mechatronics-related
	Kinematics, Kinetics, Vibration, Acoustics, Automation, Learning control, Mechatronics, Micro/nano mechatronics, Biomechanics, etc.
20020	Robotics and intelligent system-related
	Robotics, Intelligent system, Human mechanical system, Human interface, Planning, Intelligent spatial system, Virtual reality, Augmented reality, etc.
Medium-sized Section 21: Electrical and electronic engineering and related fields	
Basic Section	Examples of related research content
21010	Power engineering-related
	Electrical energy-related, Energy conservation, Power system engineering, Electric machinery, Power electronics, Effective utilization of electric energy, Electromagnetic compatibility, etc.
21020	Communication and network engineering-related
	Information theory, Nonlinear theory, Signal processing, Wired/wireless communication systems, Modulation/demodulation, Antennas, Networks, Multimedia, Cryptography/security, etc.
21030	Measurement engineering-related
	Measurement theory, Measuring instruments, Applied wave metrology, Measurement systems, Signal processing, Sensing devices, etc.
21040	Control and system engineering-related
	Control theory, System theory, Control systems, Knowledge-based control systems, System information processing, System control applications, Biosystems engineering, etc.
21050	Electric and electronic materials-related
	Semiconductor, Dielectric materials, Magnetic materials, Organic materials, Superconductor, Composite materials, Thin films, Quantum structures, Thick films, Fabrication/characterization methods, etc.
21060	Electron device and electronic equipment-related
	Electron devices, Circuit design, Optical devices, Spintronic devices, Millimeter wave/terahertz wave, Applied wave devices, Storage devices, Displays, Micro fabrication process technology, Implementation technology, etc.

Medium-sized Section 22: Civil engineering and related fields	
Basic Section	Examples of related research content
22010	Civil engineering material, execution and construction management-related
	Concrete, Steel, Composite material, Wood, Pavement material, Repair and reinforce material, Execution, Maintenance, Construction management, Underground space, etc.
22020	Structure engineering and earthquake engineering-related
	Applied mechanics, Structure engineering, Steel structure, Concrete structure, Composite structure, Wind engineering, Earthquake engineering, Aseismatic structure, Earthquake prevention, etc.
22030	Geotechnical engineering-related
	Soil mechanics, Foundation engineering, Rock engineering, Engineering Geology, Ground behavior, Soil structure, Geo-disaster prevention, Geoenvironmental engineering, Tunnel engineering, Soil environment, etc.
22040	Hydroengineering-related
	Hydraulics, Environmental hydraulics, Hydrology, River engineering, Water resource engineering, Coastal engineering, Port and harbor engineering, Ocean engineering, etc.
22050	Civil engineering plan and transportation engineering-related
	Civil engineering plan, Regional urban planning, Spatial planning, Disaster prevention plan, Transportation plan, Transportation engineering, Railway engineering, Surveying and remote sensing, Landscape design, Civil engineering history, etc.
22060	Environmental systems for civil engineering-related
	Environment plan, Environmental system, Environment conservation, Water serve and drainage systems, Waste, Water environment, Atmospheric circulation, Noise and vibration, Environment ecology, Environmental monitoring, etc.
Medium-sized Section 23: Architecture, building engineering, and related fields	
Basic Section	Examples of related research content
23010	Building structures and materials-related
	Load theory, Structural analysis, Structural design, Structures, Earthquake resistant design, Foundation, Geotechnics, Structural material, Maintenance, Building construction method, etc.
23020	Architectural environment and building equipment-related
	Sound environment, Vibration environment, Light environment, Heat environment, Air environment, Environmental psychology/physiology, Building equipment, Fire engineering, Urban environment, Environment design, etc.
23030	Architectural planning and city planning-related
	Planning theory, Design theory, Housing theory, Buildings, Urban/regional planning, Administration, Building economics, Production management, Disaster prevention planning, Landscape, etc.
23040	Architectural history and design-related
	Architectural history, Urban history, Architectural theory, Design, Landscape, Preservation, Renovation, etc.
90010	Design-related
	Information design, Environmental design, Industrial design, Spatial design, Design history, Theory of design, Design standard, Design support, Evaluation of design, Design education, etc.
Medium-sized Section 24: Aerospace engineering, marine and maritime engineering, and related fields	
Basic Section	Examples of related research content
24010	Aerospace engineering-related
	Thermo-fluid dynamics, Structural strength, Propulsion, Aerospace craft design, Production engineering, Aircraft system, Specific aircraft, Aerodynamics, Spacecraft system, Space utilization, etc.

Broad Section C	24020	Marine engineering-related Navigation, Structural mechanics, Structural design, Production technology, Marine propulsion, Marine transport, Marine development engineering, Underwater engineering, Polar engineering, Marine environmental technology, etc.
	Medium-sized Section 25: Social systems engineering, safety engineering, disaster prevention engineering, and related fields	
	Basic Section	Examples of related research content
	25010	Social systems engineering-related Social systems, Industrial engineering, Operations research, Industrial management, Reliability engineering, Policy science, Regulatory science, Quality control, etc.
	25020	Safety engineering-related Safety engineering, Safety system, Risk engineering, Risk management, Work safety, Product safety, Safety information, Human engineering, Liability engineering, etc.
	25030	Disaster prevention engineering-related Disaster prediction, Hazard map, Building prevention against disaster, Lifeline prevention against disaster, Regional disaster prevention planning, Risk evaluation of disaster, Disaster prevention policy, Disaster resilience, etc.
	Broad Section D	
	Medium-sized Section 26: Materials engineering and related fields	
	Basic Section	Examples of related research content
	26010	Metallic material properties-related Electric and magnetic properties, Electronic information properties, Metastable states, Diffusion, Phase transformation, Phase diagram, Crystal lattice defects, Mechanical properties, Thermal and optical properties, Materials computational science, etc.
26020	Inorganic materials and properties-related Functional ceramics, Functional glasses, Structural ceramics, Carbon-based materials, Crystal structure analysis, Microstructure control, Electric properties, Mechanical properties, Physical and chemical properties, Grain boundary, etc.	
26030	Composite materials and interfaces-related Functional composite materials, Structural composite materials, Biocompatible composite materials, Polymer composite, Surface treatment, Dispersion control, Joining and welding, Adhesive bonding, Interface properties, Gradient function, etc.	
26040	Structural materials and functional materials-related Social infrastructure materials, Toughness, Medical welfare materials, Functional polymer materials, Reliability, Photo-functional materials, Sensor materials, Energy materials, Battery functional materials, Environment functional materials, etc.	
26050	Material processing and microstructure control-related Processing and molding, Thermal treatment, Crystal microstructure control, Laser processing, Precision processing, Polishing, Powder metallurgy, Coatings, Metal plating, Corrosion and protection, etc.	
26060	Metals production and resources production-related Separation and purification, Melting and solidifying, Crystal growth, Casting, Resource security reservation, Scarce resources substitution, Low environment impact, Recycle, Ecomaterials, Energy saving, etc.	
Medium-sized Section 27: Chemical engineering and related fields		
Basic Section	Examples of related research content	
27010	Transport phenomena and unit operations-related Phase equilibrium, Transport properties, Momentum/heat/mass transfer, Fluid-phase unit operation, Adsorption, Membrane separation, Mixing, Powder technology, Crystallization, Film formation, etc.	

27020	Chemical reaction and process system engineering-related
	Reaction operation, Novel reaction process, Reaction mechanism, Reactor design, Materials synthesis process, Micro-chemical process, Process control, Process system design, Process informatics, etc.
27030	Catalyst and resource chemical process-related
	Catalysis, Catalyst preparation, Catalytic function, Energy conversion process, Energy development, Energy-saving technology, Resources effective utilization technology, etc.
27040	Biofunction and bioprocess engineering-related
	Biocatalyst engineering, Biofunction engineering, Food engineering, Medicochemical engineering, Bioproduction process, Nano-bioprocess, Bioreactor, Bioseparation, Biosensor, Biorefinery, etc.

## Medium-sized Section 28: Nano/micro science and related fields

Basic Section	Examples of related research content
28010	Nanometer-scale chemistry-related
	Nanostructure creation, Clusters, Nanoparticles, Mesoscopic chemistry, Superstructures, Nanometer-scale surfaces and interfaces, Self-assembly, Nanocarbons, Molecular devices, Nanometer-scale optical devices, etc.
28020	Nanostructural physics-related
	Physics in nanoscale materials and structures, Nanoprobes, Quantum effects, Quantum dots, Quantum devices, Electron devices, Spin devices, Nanotribology, Nanocarbon physics, etc.
28030	Nanomaterials-related
	Creation of nanomaterials, Analysis of nanomaterials, Nanosurfaces, Nanointerfaces, Functional nanomaterials, Nanostructures, Nanoparticles, Carbon nanomaterials, Nanocrystalline materials, Nanocomposites, Nanodefects, Nanofabrication process, etc.
28040	Nanobioscience-related
	Biomolecular devices, Molecular manipulation, Molecular imaging, Nanomeasurements, Nanosynthesis, Single molecule science, Nano-bio interfaces, Biomolecular array, Genome engineering, etc.
28050	Nano/micro-systems-related
	MEMS, NEMS, BioMEMS, Nano/micro-fabrication, Nano/micro-optical devices, Nano/micro-chemical systems, Nano/micro-biosystems, Nano/micro-organism systems, Nano/micro-mechanics, Nano/micro-sensors, etc.

## Medium-sized Section 29: Applied condensed matter physics and related fields

Basic Section	Examples of related research content
29010	Applied physical properties-related
	Magnetic materials, Superconductors, Dielectrics, Fine particles, Organic molecules, Liquid crystals, New functional materials, Organic molecules and bioelectronics, Spintronics, etc.
29020	Thin film/surface and interfacial physical properties-related
	Thin-film engineering, Thin-film electronics, Oxide electronics, Vacuum, Surface science, Analysis, Measurement, Nanoscopic technology, Surface and interfacial engineering, Advanced equipment, etc.
29030	Applied condensed matter physics-related
	Elementary quantities, Standards, Units, Physical quantity measurements and detection, Energy conversion, etc.

## Medium-sized Section 30: Applied physics and engineering and related fields

Basic Section	Examples of related research content
30010	Crystal engineering-related
	Metals, Semiconductors, Ceramics, Amorphous materials, Crystal growth, Artificial structures, Crystal characterization, Plasma materials engineering, Plasma processing, Plasma engineering, etc.

(Broad Section D)	30020	Optical engineering and photon science-related Optical materials, Optical elements, Optical properties, Optical information processing, Laser, Optical sensing, Optical recording, Opto-electronics, Nonlinear optics, Vision optics, etc.
	Medium-sized Section 31: Nuclear engineering, earth resources engineering, energy engineering, and related fields	
	Basic Section	Examples of related research content
	31010	Nuclear engineering-related Reactor physics and safety design, Thermal-hydraulics and structure, Fuel material, Nuclear chemistry, Nuclear life cycle, Radiation safety, Radiation beam engineering, Plasma engineering for fusion reactor, Equipment and material engineering for fusion reactor, Nuclear social environment, etc.
	31020	Earth resource engineering, Energy sciences-related Earth resource sciences, Resource prospecting, Resource development, Resource cycle, Resource economy, Energy system, Environmental load evaluation, Renewable energy, Natural resource and energy technological policy, etc.
	Medium-sized Section 90: Biomedical engineering and related fields	
	Basic Section	Examples of related research content
	90110	Biomedical engineering-related Medical imaging, Medical modeling, Biological simulation, Biometrics, Artificial organs, Tissue engineering, Biophysical properties, Biocontrol, Biomechanics, Nanobio systems, etc.
	90120	Biomaterials-related Biofunctional materials, Tissue engineering materials, Biocompatible materials, Nanobio materials, Drug delivery systems, Stimuli-sensitive materials, Genetic engineering material, etc.
	90130	Medical systems-related Medical ultrasound system, Diagnostic imaging system, Laboratory diagnosis systems, Minimally invasive treatment systems, Remote diagnosis and treatment systems, Organ preservation systems, Medical information systems, Computer-assisted surgery, Medical robot, etc.
90140	Medical technology assessment-related Regulatory science, Safety evaluation, Clinical study, Medical technology ethics, Medical devices, etc.	
90150	Medical assistive technology-related Healthcare and rehabilitation engineering, Life assist technology, Care support technology, Accessibility design, Universal design, Rehabilitation and nursing robot, Assist device for artificial internal organ, Rehabilitation devices, Nursing science and engineering, etc.	
Broad Section E		
Medium-sized Section 32: Physical chemistry, functional solid state chemistry, and related fields		
Basic Section	Examples of related research content	
32010	Fundamental physical chemistry-related Theoretical chemistry, Molecular spectroscopy, Structural chemistry, Electronic state dynamics, Chemical reaction dynamics, Surface/interface, Cluster and nano materials, Bio-related physical chemistry, Liquid structure dynamics, Solid state properties, Molecular properties, etc.	
32020	Functional solid state chemistry-related Optical properties, Electron spin, Molecular electronics and devices, Supermolecules, Liquid crystals, Crystals, Surface/interface, Nano particles, Colloids, Electrochemistry, Electronic properties, etc.	

Medium-sized Section 33: Organic chemistry and related fields	
Basic Section	Examples of related research content
33010	Structural organic chemistry and physical organic chemistry-related
	Organic crystals, Molecular recognition, Supramolecules, Organic functional materials, Extended p-electron system compounds, Heterocyclic chemistry, Organoelement chemistry, Organic reaction mechanism, Organic photochemistry, Theoretical organic chemistry, etc.
33020	Synthetic organic chemistry-related
	Selective reactions, Asymmetric synthesis, Organometallic complex/catalysis, Catalyst design, Organocatalysts, Biocatalysis, Sustainable organic synthesis, Natural product synthesis, Process chemistry, Organic electrochemistry, etc.
Medium-sized Section 34: Inorganic/coordination chemistry, analytical chemistry, and related fields	
Basic Section	Examples of related research content
34010	Inorganic/coordination chemistry-related
	Coordination chemistry, Organometallic chemistry, Inorganic solid-state chemistry, Bioinorganic chemistry, Solution chemistry, Clusters, Supramolecular complexes, Coordination polymers, Typical elements, Physical properties and functions, etc.
34020	Analytical chemistry-related
	Spectrometric analysis, Advanced measurements, Surface/interface analysis, Separation analysis, Analytical reagents, Radiochemical analysis, Electrochemical analysis, Bioanalysis, New analysis methods, etc.
34030	Green sustainable chemistry and environmental chemistry-related
	Green process, Green catalysts, Recycle, Environmental assessment, Environmentally conscious materials, Reduction of environmental load, Environmental restoration, Resource saving, Geochemistry, Environmental radioactivity, etc.
Medium-sized Section 35: Polymers, organic materials, and related fields	
Basic Section	Examples of related research content
35010	Polymer chemistry-related
	Polymer synthesis, Polymer reactions, Precision polymerization, Functional polymers, Self-assembled polymers, Chiral polymers, Bio-related polymers, Polymer properties, Polymer structures, Polymer thin film/surface, etc.
35020	Polymer materials-related
	Properties of polymer materials, Synthesis of polymer materials, Functional polymer materials, Liquid crystal polymers, Textiles, Rubbers, Gel, Biopolymers, Polymer composites, Polymer processing, etc.
35030	Organic functional materials-related
	Organic semiconductors, Liquid crystals, Optical materials, Device-related materials, Electrically conductive materials, Hybrid materials, Molecular functional materials, Organic hybrid materials, Materials for energy conversion, etc.
Medium-sized Section 36: Inorganic materials chemistry, energy-related chemistry, and related fields	
Basic Section	Examples of related research content
36010	Inorganic compounds and inorganic materials chemistry-related
	Crystals, Amorphous, Ceramics, Semiconductors, Inorganic device-related materials, Low-dimensional compounds, Porous materials, Nanoparticles, Multicomponent compounds, Hybrid materials, etc.
36020	Energy-related chemistry
	Energy resources, Energy conversion materials, Energy carriers, Solar energy utilization, Material separation, Catalytic transformation, Battery and electrochemical materials, Energy-saving materials, Renewable energy, Unused energy, etc.

Broad Section E)	Medium-sized Section 37: Biomolecular chemistry and related fields	
	Basic Section	Examples of related research content
	37010	Bio-related chemistry
		Bioorganic chemistry, Bioinorganic chemistry, Biological reaction engineering, Biofunctional chemistry, Biofunctional materials, Biotechnology, etc.
	37020	Chemistry and chemical methodology of biomolecules-related
Natural product chemistry, Biologically active compounds, Molecular mechanism of biological activities, Biofunctional molecules, Combinatorial chemistry, Metabolomic analysis, etc.		
37030	Chemical biology-related	
	In vivo functional expression, Intracellular chemical reactions, Drug discovery science, Chemical library, Structure-activity relationship, Chemical probes, Biomolecular measurements, Molecular imaging, Proteomics, etc.	
Broad Section F		
Medium-sized Section 38: Agricultural chemistry and related fields		
Basic Section	Examples of related research content	
38010	Plant nutrition and soil science-related	
	Plant metabolism and physiology, Nutritional elements in plants, Soil classification, Soil physical chemistry, Soil organisms, etc.	
38020	Applied microbiology-related	
	Microbial genetics/breeding, Microbial function, Microbial metabolism and physiology, Microbial applications, Control of microbes, Microbial ecology, Production of useful materials, etc.	
38030	Applied biochemistry-related	
	Cellular biochemistry, Applied biochemistry, Structural biology, Regulation of bioactivity, Metabolism and physiology, Cellular function, Molecular function, Production of useful materials, etc.	
38040	Bioorganic chemistry-related	
	Bioactive substances, Signal molecules, Natural products chemistry, Biosynthesis, Structure-activity relationship, Synthetic organic chemistry, Chemical biology, etc.	
38050	Food sciences-related	
	Food function, Food chemistry, Nutritional chemistry, Food analysis, Food engineering, Food safety, Functional food, Nutritional epidemiology, Clinical nutrition, etc.	
38060	Applied molecular and cellular biology-related	
	Molecular cell biology, Cellular bioengineering, Molecular engineering, Gene expression control, Cell-cell/intermolecular interactions, Cellular function, Production of useful materials, etc.	
Medium-sized Section 39: Agricultural and environmental biology and related fields		
Basic Section	Examples of related research content	
39010	Science in plant genetics and breeding-related	
	Genetic resources, Breeding theories, Genomic breeding, Plants with novel traits, Quality components, Stress tolerance, Yielding ability, Reproduction and multiplication, Growth physiology, Development, etc.	
39020	Crop production science-related	
	Field crops, Crop yield, Crop product quality, Crop morphology, Growth prediction, Crop physiology, Field management, Low-cost cultivation techniques, Environmentally friendly agriculture, Field ecosystem, etc.	
39030	Horticultural science-related	
	Plant growth, flowering, and fruit development, Nursery plant propagation and production, Crop production systems, Cultivation techniques, Protected horticulture, Controlled environment systems, Breeding and development of new cultivars, Quality of horticultural products, Postharvest physiology and management, Socio-horticulture, etc.	

39040	Plant protection science-related
	Plant pathology, Clinical plant science, Agricultural insect pest, Natural enemy, Weed, Agricultural chemicals, Integrated pest management, etc.
39050	Insect science-related
	Sericulture insect technology, Insect genetics, Insect pathology, Insect physiology and biochemistry, Insect ecology, Chemical ecology, Systematics, Symbiosis and parasitism, Social insects, Medical entomology, etc.
39060	Conservation of biological resources-related
	Conservation biology, Biodiversity conservation, Conservation of phylogenetic diversity, Conservation of genetic resources, Ecosystem conservation, Conservation of endemic species, Conservation of microorganisms, etc.
39070	Landscape science-related
	Landscape architecture, Parks and open space planning, Landscape planning, Cultural landscape, Nature conservation, Landscape ecology, Parks and open space management, Parks, Environmental greening, Participatory community design, etc.

Medium-sized Section 40: Forestry and forest products science, applied aquatic science, and related fields

Basic Section	Examples of related research content
40010	Forest science-related
	Forest ecology, Forest biodiversity, Forest genetics and breeding, Silviculture, Forest protection, Forest environments, Erosion control, Forest planning, Forest policy, etc.
40020	Wood science-related
	Wood structure, Wood property, Lignocellulose, Trace element, Fungus, Wood processing, Biomass-refinery, Wood based material, Wooden building, Forest products education, etc.
40030	Aquatic bioproduction science-related
	Aquatic environment, Fisheries, Aquatic resource management, Aquatic organisms, Aquatic ecosystem, Aquaculture, Fisheries engineering, Fishing community/fisheries policy, Fisheries economics/management/marketing, Fisheries education, etc.
40040	Aquatic life science-related
	Aquatic nutrition, Aquatic pathology, Aquatic genetics/heredity/breeding, Aquatic physiology, Utilization of aquatic organisms and biomass, Aquatic biological chemistry, Aquatic biotechnology, Aquatic food sciences, etc.

Medium-sized Section 41: Agricultural economics and rural sociology, agricultural engineering, and related fields

Basic Section	Examples of related research content
41010	Agricultural and food economics-related
	Food economy, Agricultural production economy, Policy for agriculture, forestry and fishery, Food system, Food marketing, International agricultural development, Trade of agricultural commodities and livestock products, Rural resources and environment, etc.
41020	Rural sociology and agricultural structure-related
	Farm organization, Farm management, Agricultural structure, Agricultural market, Agricultural history, Rural society, Rural life, Agricultural cooperative, etc.
41030	Rural environmental engineering and planning-related
	Irrigation and drainage, Reclamation and conservation of agricultural land, Rural planning, Rural environment, Circulation of resources and energy, Disaster prevention in rural area, Stock management of agricultural infrastructures, Hydrodynamics and hydrology, Soil physics, Design and construction materials, etc.
41040	Agricultural environmental engineering and agricultural information engineering-related
	Agricultural production facilities, Bioproduction machinery, Environmental control, Agricultural meteorology and micrometeorology, Agricultural information, Greenhouse horticulture, Plant factory, Postharvest and supply chain, Nondestructive measurement, Remote sensing and geographic information system, etc.



Broad Section F)	41050	Environmental agriculture-related Biomass, Environmental manipulation, Biodiversity, Environmental analysis, Ecosystem services, Resources circulation system, Low-carbon societies, Life-cycle assessment, Environmental friendly agriculture, Watershed management, etc.
	Medium-sized Section 42: Veterinary medical science, animal science, and related fields	
	Basic Section	Examples of related research content
	42010	Animal production science-related Breeding/genetics, Reproduction, Nutrition/feeding, Anatomy/physiology, Product, Environment, Behavior, Therapy, Grassland, Grazing, etc.
	42020	Veterinary medical science-related Basic veterinary science, Pathological veterinary science, Applied veterinary science, Clinical veterinary science, Animal nursing, Animal welfare, Wildlife, etc.
	42030	Animal life science-related Homeostasis, Cellular function, Biological defense, Integrated genetics, Development/differentiation, Biotechnology, etc.
	42040	Laboratory animal science-related Genetic engineering, Developmental engineering, Animal models of disease, Facility management, Laboratory animal welfare, Laboratory animal-related technology, Bioresource, etc.
	Broad Section G	
	Medium-sized Section 43: Biology at molecular to cellular levels, and related fields	
	Basic Section	Examples of related research content
43010	Molecular biology-related Chromosome function, Chromatin, Epigenetics, Genome maintenance, Genome transmission, Chromosome re-organization, Gene expression, Non-coding RNA, Regulation of protein function, Molecular genetics, etc.	
43020	Structural biochemistry-related Proteins, Nucleic acids, Lipids, Carbohydrates, Biological membrane, Molecular recognition, Denaturation, Three-dimensional structural analysis, Three-dimensional structural prediction, Molecular dynamics, etc.	
43030	Functional biochemistry-related Enzymes, Sugar chain, Bioenergy conversion, Biological trace elements, Physiologically active substances, Cell signaling, Membrane transport, Proteolysis, Molecular recognition, etc.	
43040	Biophysics-related Structure biology, Physical property of biomolecules, Biomembrane, Photobiology, Molecular motor, Biometrics, Bioimaging, Systems biology, Synthetic biology, Theoretical biology, etc.	
43050	Genome biology-related Genome organization, Genome function, Genome diversity, Molecular evolution of genome, Genome repair/maintenance, Trans-omics, Epigenome, Gene resource, Genome dynamics, etc.	
43060	System genome science-related Network analyses, Synthetic biology, Biological databases, Bioinformatics, Genome analysis technology, Genome biotechnology, etc.	
Medium-sized Section 44: Biology at cellular to organismal levels, and related fields		
Basic Section	Examples of related research content	
44010	Cell biology-related Cytoskeleton, Proteolysis, Organelle dynamics, Nuclear structure and function, Extracellular matrix, Signal transduction, Cell cycle, Cell motility, Cell-cell interaction, Cellular genetics, etc.	

44020	Developmental biology-related
	Cell differentiation, Stem cells, Regeneration, Germ layer formation, Morphogenesis, Organogenesis, Fertilization, Germ cells, Regulation of gene expression, Developmental genetics, Evolution and development, etc.
44030	Plant molecular biology and physiology-related
	Photosynthesis, Growth physiology, Plant development, Organelle, Cell wall, Responses to environment, Plant-microbe interaction, Metabolism, Plant molecular function, etc.
44040	Morphology and anatomical structure-related
	Animal and plant morphology, Micro-organismal morphology, Molecular morphology, Microstructure, Tissue organization, Morphogenesis, Comparative endocrinology, Microscopic technology, Imaging, etc.
44050	Animal physiological chemistry, physiology and behavioral biology-related
	Metabolic physiology, Neurophysiology, Neuroethology, Behavioral physiology, Animal physiological chemistry, Chronobiology, Comparative physiology, etc.

Medium-sized Section 45: Biology at organismal to population levels and anthropology, and related fields

Basic Section	Examples of related research content
45010	Genetics-related
	Genetic mechanism, Molecular genetics, Cellular genetics, Population genetics, Evolutionary genetics, Developmental genetics, Behavioral genetics, Genetic diversity, etc.
45020	Evolutionary biology-related
	General evolutionary biology, Molecular evolution, Phenotypic evolution, Evolution of developmental traits, Evolution of ecological traits, Evolution of behaviors, Experimental evolution, Evolutionary theory, Evolution of symbiosis, Phylogenetics, Speciation, etc.
45030	Biodiversity and systematics-related
	Taxonomic characters, Taxon, Classification system, Biodiversity, Phylogenetics, Evolution, Natural history, Speciation, etc.
45040	Ecology and environment-related
	Chemical ecology, Molecular ecology, Physiological ecology, Evolutionary ecology, Behavioral ecology, Population ecology, Community ecology, Ecosystem, Conservation ecology, Natural environment, etc.
45050	Physical anthropology-related
	Molecular anthropology and genetics, Morphology and function, Bioarchaeology, Behavior and cognition, Ecology, Primates, Evolution, Development and ontogeny, Variation and diversity, etc.
45060	Applied anthropology-related
	Physiological anthropology, Ergonomics, Forensic anthropology, Medical anthropology, Physiological polymorphisms, Environmental adaptability, Somatic and physiological function, Anthropometry and bioengineering, etc.

Medium-sized Section 46: Neuroscience and related fields

Basic Section	Examples of related research content
46010	Neuroscience-general-related
	Neurochemistry, Neuron, Glia, Genome, Epigenetics, Neurobiology, Information processing, Synapse, Neurogenesis, etc.
46020	Anatomy and histopathology of nervous system-related
	Neural development, Anatomy of nervous system, Neural network structure, Neuropathology, etc.
46030	Function of nervous system-related
	Neurophysiology, Neuropharmacology, Neurotransmission, Neuroinformatics, Behavioral neuroscience, Neural system physiology, Cerebral blood flow, Autonomic nervous system, etc.

Broad Section H

Medium-sized Section 47: Pharmaceutical sciences and related fields

Basic Section	Examples of related research content
47010	Pharmaceutical chemistry and drug development sciences-related
	Inorganic chemistry, Organic chemistry, Medicinal chemistry, Medicinal molecular design, Drug discovery, Bio-related materials, Chemical biology, etc.
47020	Pharmaceutical analytical chemistry and physicochemistry-related
	Environmental analysis, Bioanalysis, Physicochemistry, Biophysics, Structural biology, Radiochemistry, Bioimaging, Drug formulation design, Computer science, Information science, etc.
47030	Pharmaceutical hygiene and biochemistry-related
	Environmental hygiene, Healthful nutrition, Disease prevention, Toxicology, Drug metabolism, Host defense, Molecular biology, Cell biology, Biochemistry, etc.
47040	Pharmacology-related
	Pharmacology, Pharmacogenomics, Applied pharmacology, Signal transduction, Drug interactions, Drug response, Pharmacotherapy, Pharmacotoxicology, etc.
47050	Environmental and natural pharmaceutical resources-related
	Environmental resource science, Natural products chemistry, Bioactive natural compounds, Medicinal resources, Medicinal foods, Pharmaceutical microbiology, etc.
47060	Clinical pharmacy-related
	Pharmacokinetics, Medical informatics, Social pharmacy, Clinical pharmacy, Pharmaceutics, Regulatory science, Education for the pharmacist, etc.

Medium-sized Section 48: Biomedical structure and function and related fields

Basic Section	Examples of related research content
48010	Anatomy-related
	Macroscopic anatomy, Histology, Embryology, etc.
48020	Physiology-related
	General physiology, Pathophysiology, Comparative physiology, Environmental physiology, etc.
48030	Pharmacology-related
	Genomic pharmacology, Molecular and cellular pharmacology, Pathological pharmacology, Behavioral pharmacology, Pharmacology for drug discovery, Clinical pharmacology, etc.
48040	Medical biochemistry-related
	Biofunctional molecular and medical biochemistry, Genome medical sciences, Human genetics, Disease model, etc.

Medium-sized Section 49: Pathology, infection/immunology, and related fields

Basic Section	Examples of related research content
49010	Pathological biochemistry-related
	Molecular pathology, Metabolic disorders, Molecular diagnosis, etc.
49020	Human pathology-related
	Molecular pathology, Cyto- and histo-pathology, Diagnostic pathology, etc.

Broad Section H	49030	Experimental pathology-related
		Disease models, Pathological regulation, Tissue regeneration, etc.
	49040	Parasitology-related
		Parasite, Vector organism, Parasite pathogenicity, Epidemiology of parasites, Control of parasite infections, etc.
	49050	Bacteriology-related
		Bacterium, Fungus, Antimicrobial resistance, Bacterial pathogenicity, Epidemiology of bacteria, Control of bacterial infections, etc.
	49060	Virology-related
		Virus, Prion, Viral pathogenicity, Epidemiology of viruses, Control of viral infections, etc.
	49070	Immunology-related
		Immune system, Immune response, Inflammation, Immune-related disorder, Immune regulation, etc.

Broad Section I

Medium-sized Section 50: Oncology and related fields

Basic Section	Examples of related research content
50010	Tumor biology-related
	Cancer and gene, Tumor development, Invasion, Metastasis, Cancer microenvironment, Cancer and signal transduction, Characteristics of cancer cells, etc.
50020	Tumor diagnostics and therapeutics-related
	Genome analysis, Diagnostic markers, Molecule imaging, Chemotherapy, Nucleic acid therapy, Gene therapy, Immunotherapy, Molecular targeted therapy, Physical therapy, Radiation therapy, etc.

Medium-sized Section 51: Brain sciences and related fields

Basic Section	Examples of related research content
51010	Basic brain sciences-related
	Brain-machine interface, Model animal, Computational brain science, Brain information decoding, Control technologies, Brain imaging, Brain biometrics, etc.
51020	Cognitive and brain science-related
	Social behavior, Communication, Emotion, Decision making, Consciousness, Learning, Neuroeconomics, Neuropsychology, etc.
51030	Pathophysiologic neuroscience-related
	Clinical neuroscience, Dolorology, Sensory impairment, Movement disorder, Neurological disorder, Neurogenesis, Neuroimmunology, Cellular degeneration, Disease model, etc.

Medium-sized Section 52: General internal medicine and related fields

Basic Section	Examples of related research content
52010	General internal medicine-related
	Laboratory medicine, General practice, Geriatrics, Psychosomatic internal medicine, Oriental medicine, Palliative medicine, etc.
52020	Neurology-related
	Neurology, Neurofunctional imaging, etc.

52030	Psychiatry-related
	Clinical psychiatry, Biological psychiatry, Forensic mental health, etc.
52040	Radiological sciences-related
	Diagnostic radiology, Therapeutic radiology, Radiation biology, Radiological technology, etc.
52050	Embryonic medicine and pediatrics-related
	Fetal medicine, Neonatal medicine, Pediatrics, etc.

## Medium-sized Section 53: Organ-based internal medicine and related fields

Basic Section	Examples of related research content
53010	Gastroenterology-related
	Upper digestive tract, Lower digestive tract, Liver, Biliary tract, Pancreas, etc.
53020	Cardiology-related
	Ischemic heart disease, Valvular heart disease, Arrhythmia, Cardiomyopathy, Heart failure, Peripheral arterial disease, Arteriosclerosis, Hypertension, etc.
53030	Respiratory medicine-related
	Respiratory medicine, Asthma, Diffusive lung disease, COPD, Lung cancer, Pulmonary hypertension, etc.
53040	Nephrology-related
	Acute renal failure, Chronic kidney disease, Diabetic nephropathy, Hypertension, Aqueous electrolyte metabolism, Artificial dialysis, etc.
53050	Dermatology-related
	Dermatology, Cutaneous immune disease, Cutaneous infection, Cutaneous tumor, etc.

## Medium-sized Section 54: Internal medicine of the bio-information integration and related fields

Basic Section	Examples of related research content
54010	Hematology and medical oncology-related
	Hematological oncology, Hematological immunology, Anemia, Thrombosis and hemostasis, Chemotherapy, etc.
54020	Connective tissue disease and allergy-related
	Connective tissue disease, Allergy, Clinical immunology, Inflammation, etc.
54030	Infectious disease medicine-related
	Infection diagnostics, Infection therapeutics, Host defense, International infection science, etc.
54040	Metabolism and endocrinology-related
	Energy balance, Glucose metabolism, Lipid metabolism, Purine metabolism, Bone metabolism, Electrolyte balance, Endocrinology, Neuroendocrinology, Reproductive endocrinology, etc.

## Medium-sized Section 55: Surgery of the organs maintaining homeostasis and related fields

Basic Section	Examples of related research content
55010	General surgery and pediatric surgery-related
	Surgical basic principles, Breast surgery, Endocrine surgery, Pediatric surgery, Transplant surgery, Artificial organs science, Regeneration, Operation support, etc.

55020	Digestive surgery-related
	Upper gastrointestinal surgery, Lower gastrointestinal surgery, Hepatic surgery, Biliary surgery, Pancreatic surgery, etc.
55030	Cardiovascular surgery-related
	Coronary artery surgery, Heart valve surgery, Surgery for myocardial disease, Aortic surgery, Vascular surgery, Congenital heart surgery, etc.
55040	Respiratory surgery-related
	Lung surgery, Mediastinal surgery, Chest wall surgery, Respiratory tract surgery, etc.
55050	Anesthesiology-related
	Anesthesiology, Perioperative management, Pain management, Resuscitology, Palliative medicine, etc.
55060	Emergency medicine-related
	Intensive care medicine, Emergency resuscitation science, Trauma surgery, Disaster medicine, Disaster medical care, etc.

Medium-sized Section 56: Surgery related to the biological and sensory functions and related fields

Basic Section	Examples of related research content
56010	Neurosurgery-related
	Neurosurgery, Spine and spinal cord diseases, etc.
56020	Orthopedics-related
	Orthopedics, Rehabilitation medicine, Sports medicine, etc.
56030	Urology-related
	Urology, Male genitalia science, etc.
56040	Obstetrics and gynecology-related
	Obstetrics, Reproductive endocrinology, Gynecologic oncology, Female health care medicine, etc.
56050	Otorhinolaryngology-related
	Otorhinolaryngology, Head and neck surgery, etc.
56060	Ophthalmology-related
	Ophthalmology, Ophthalmological optics, etc.
56070	Plastic and reconstructive surgery-related
	Plastic surgery, Reconstructive surgery, Aesthetic plastic surgery, etc.

Medium-sized Section 57: Oral science and related fields

Basic Section	Examples of related research content
57010	Oral biological science-related
	Oral anatomy, Oral histology and embryology, Oral physiology, Oral biochemistry, Pharmacology for hard tissues, etc.
57020	Oral pathobiological science-related
	Oral infectious diseases, Oral pathology, Oral experimental oncology, Immunity and inflammation, Laboratory medicine, etc.

57030	Conservative dentistry-related
	Operative dentistry, Endodontology, Periodontology, etc.
57040	Regenerative dentistry and dental engineering-related
	Regenerative dentistry, Biomaterial science, Dental materials science, Oral and maxillofacial prosthetics, Oral implantology, etc.
57050	Prosthodontics-related
	Prosthodontics, Oral rehabilitation, Gerodontology, etc.
57060	Surgical dentistry-related
	Oral and maxillofacial surgery, Oral maxillofacial reconstructive surgery, Dental anesthesiology, Psychosomatic medicine dentistry, Dental radiology, etc.
57070	Developmental dentistry-related
	Orthodontics, Pediatric dentistry, etc.
57080	Social dentistry-related
	Dental hygiene, Preventive dentistry, Oral health administration and management, Dental education, Forensic odontology, etc.

## Medium-sized Section 58: Society medicine, nursing, and related fields

Basic Section	Examples of related research content
58010	Medical management and medical sociology-related
	Medical management, Medical social science, Ethics for medical science, Ethics for medical care, Biomedical education, History of medical science, Health policy and economics, Clinical trials, Health and medical services administration, Disaster medical science, etc.
58020	Hygiene and public health-related: including laboratory approach
	Hygiene, Public health, Epidemiology, Global health, etc.
58030	Hygiene and public health-related: excluding laboratory approach
	Hygiene, Public health, Epidemiology, Global health, etc.
58040	Forensics medicine-related
	Forensic medicine, Forensic pathology, Forensic toxicology, Forensic genetics, Suicide, Abuse, Clinical forensic medicine, Sudden death, etc.
58050	Fundamental of nursing-related
	Fundamental of nursing, Nursing education, Nursing administration, etc.
58060	Clinical nursing-related
	Critical care and emergency nursing, Perioperative nursing, Nursing of chronic illness, Oncology nursing, Psychiatric nursing, Palliative care nursing, etc.
58070	Lifelong developmental nursing-related
	Women's health nursing, Maternal nursing, Midwifery, Family health nursing, Child health nursing, School nursing, etc.
58080	Gerontological nursing and community health nursing-related
	Gerontological nursing, Community health nursing, Public health nursing, Disaster nursing, etc.

(Broad Section I)

Medium-sized Section 59: Sports sciences, physical education, health sciences, and related fields	
Basic Section	Examples of related research content
59010	Rehabilitation science-related
	Rehabilitation medicine, Rehabilitation nursing, Rehabilitation medical care, Physiotherapeutics, Occupational therapy, Assistive technology, Speech and language therapy, etc.
59020	Sports sciences-related
	Sports physiology, Sports biochemistry, Sports medicine, Sports sociology, Sports management, Sports psychology, Sports education, Training science, Sports biomechanics, Adapted sports science, Doping, etc.
59030	Physical education, and physical and health education-related
	Growth developmental science, Physical and health education, Physical education in school, Educational physiology, Physical systems science, Higher brain function science, Martial arts theory, Outdoor education, etc.
59040	Nutrition science and health science-related
	Nutritional physiology, Nutritional biochemistry, Nutritional education, Clinical nutrition, Functional food, Lifestyle-related disease, Health promotion, Aging, etc.
Medium-sized Section 90: Biomedical engineering and related fields	
Basic Section	Examples of related research content
90110	Biomedical engineering-related
	Medical imaging, Medical modeling, Biological simulation, Biometrics, Artificial organs, Tissue engineering, Biophysical properties, Biocontrol, Biomechanics, Nanobio systems, etc.
90120	Biomaterials-related
	Biofunctional materials, Tissue engineering materials, Biocompatible materials, Nanobio materials, Drug delivery systems, Stimuli-sensitive materials, Genetic engineering material, etc.
90130	Medical systems-related
	Medical ultrasound system, Diagnostic imaging system, Laboratory diagnosis systems, Minimally invasive treatment systems, Remote diagnosis and treatment systems, Organ preservation systems, Medical information systems, Computer-assisted surgery, Medical robot, etc.
90140	Medical technology assessment-related
	Regulatory science, Safety evaluation, Clinical study, Medical technology ethics, Medical devices, etc.
90150	Medical assistive technology-related
	Healthcare and rehabilitation engineering, Life assist technology, Care support technology, Accessibility design, Universal design, Rehabilitation and nursing robot, Assist device for artificial internal organ, Rehabilitation devices, Nursing science and engineering, etc.
Broad Section J	
Medium-sized Section 60: Information science, computer engineering, and related fields	
Basic Section	Examples of related research content
60010	Theory of informatics-related
	Discrete structure, Mathematical logic, Theory of computation, Mathematical theory of programs, Computational complexity theory, Algorithm theory, Information theory, Coding theory, Theory of cryptography, Learning theory, etc.
60020	Mathematical informatics-related
	Optimization theory, Mathematical systems theory, System control theory, System analysis, System methodology, System modeling, System simulation, Combinatorial optimization, Queueing theory, Mathematical finance, etc.



60030	Statistical science-related
	Statistics, Data science, Modeling, Statistical inference, Multivariate analysis, Time series analysis, Statistical quality control, Applied statistics, etc.
60040	Computer system-related
	Computer architecture, Circuit and system, LSI design, LSI testing, Reconfigurable system, Dependable architecture, Low power technology, Hardware/software codesign, Embedded system, etc.
60050	Software-related
	Programming language, Programming methodology, Operating system, Parallel and distributed computing, Software engineering, Virtualization technology, Cloud computing, Software dependability, Software security, etc.
60060	Information network-related
	Network architecture, Network protocol, Internet, Mobile network, Pervasive computing, Sensor network, IoT, Traffic engineering, Network management, Service platform technology, etc.
60070	Information security-related
	Cryptography, Tamper resistance technology, Authentication, Biometrics, Access control, Malware countermeasure, Countermeasures against denial-of-service attacks, Privacy protection, Digital forensics, Security evaluation and authorization, etc.
60080	Database-related
	Data model, Database system, Multimedia database, Information retrieval, Content management, Metadata, Big data, Geographic information system, etc.
60090	High performance computing-related
	Parallel processing, Distributed processing, Cloud computing, Numerical analysis, Visualization, Computer graphics, High performance computing application, etc.
60100	Computational science-related
	Mathematical engineering, Computational mechanics, Numerical simulation, Multi-scale modeling, Large-scale computing, Massively parallel computing, Numerical computing methods, Advanced algorithms, etc.

## Medium-sized Section 61 : Human informatics and related fields

Basic Section	Examples of related research content
61010	Perceptual information processing-related
	Pattern recognition, Image processing, Computer vision, Visual media processing, Acoustic media processing, Media editing, Media database, Sensing, Sensor fusion, etc.
61020	Human interface and interaction-related
	Human interface, Multi-modal interface, Human-computer interaction, Computer supported cooperative work, Virtual reality, Augmented reality, Realistic communication, Wearable device, Usability, Ergonomics, etc.
61030	Intelligent informatics-related
	Search, Inference, Machine learning, Knowledge acquisition, Intelligent system, Intelligent information processing, Natural language processing, Data mining, Ontology, Agent system, etc.
61040	Soft computing-related
	Neural network, Evolutionary computation, Fuzzy theory, Chaos, Complex systems, Probabilistic information processing, etc.
61050	Intelligent robotics-related
	Intelligent robot, Behavior and environment recognition, Planning, Sensory behavior system, Autonomous system, Digital human, Real world information processing, Physical agents, Intelligent space, etc.
61060	Kansei informatics-related
	Kansei design, Kansei cognitive science, Kansei psychology, Kansei robotics, Kansei measurement evaluation, Kansei interface, Kansei physiology, Kansei material science, Kansei pedagogy, Kansei brain science, etc.
90010	Design-related
	Information design, Environmental design, Industrial design, Spatial design, Design history, Theory of design, Design standard, Design support, Evaluation of design, Design education, etc.

Broad Section J	90030	Cognitive science-related Cognitive science in general, Cognitive models, Kansei, Human factors, Cognitive and brain science, Comparative cognition, Cognitive linguistics, Cognitive engineering, etc.
	Medium-sized Section 62: Applied informatics and related fields	
	Basic Section	Examples of related research content
	62010	Life, health and medical informatics-related Bioinformatics, Life informatics, Biological information, Neuroinformatics, Neural information processing, Molecular computing, DNA computing, Medical information, Health information, Medical image, etc.
	62020	Web informatics and service informatics-related Web system, Social web, Semantic web, Web mining, Social network analysis, Service engineering, Educational service, Medical service, Welfare service, Social service, Information culture, etc.
	62030	Learning support system-related Media literacy, Learning media, Social media, Learning content, Learning management, Learning support, Remote learning, e-Learning, etc.
	62040	Entertainment and game informatics-related Music information processing, 3D content, Animation, Game programming, Network entertainment, Media art, Digital museum, Experience design, etc.
	90020	Library and information science, humanistic and social informatics-related Library science, Information services, Information organizing, Information retrieval, Information media, Bibliometrics, Information resources, Information ethics, Digital humanities, Social Informatics, Digital archives, etc.
	Broad Section K	
	Medium-sized Section 63: Environmental analyses and evaluation and related fields	
Basic Section	Examples of related research content	
63010	Environmental dynamic analysis-related Global warming, Environmental change, Water and material cycle, Polar regions, Chemical oceanography, Biological oceanography, Environmental measurements, Environmental model, Environmental information, Remote sensing, etc.	
63020	Radiation influence-related Radiation, Measurement, Control, Repair, Biological effects, Risk, etc.	
63030	Chemical substance influence on environment-related Toxicology, Toxic substance to human, Trace chemical substance, Endocrine disruptor, Repair, etc.	
63040	Environmental impact assessment-related Atmosphere, Hydrosphere, Terrestrial impact, Impact assessment on human health, Social and economic impacts, Impact assessment on the future generation, Environmental impact assessment, Assessment methods, Monitoring, Simulation, etc.	
Medium-sized Section 64: Environmental conservation measure and related fields		
Basic Section	Examples of related research content	
64010	Environmental load and risk assessment-related Environmental analysis, Environmental load analysis, Environmental monitoring, Dynamics of environmental pollution, Environmental modelling, Evaluation of contamination, Exposure assessment, Toxicity evaluation, Environmental assessment, Chemical substance management, etc.	

(Broad Section K)

64020	Environmental load reduction and remediation-related
	Removal of contamination, Treatment of waste material, Control of contamination source, Disposal of waste material, Environmental load reduction, Remediation measure of contamination, Noise and vibration reduction, Countermeasure of ground settlement, Bioremediation, Radioactive decontamination, etc.
64030	Environmental materials and recycle technology-related
	Recycle materials, Valuable materials recovery, Separation, refining and purification, Environment-conscious design, Recycle chemistry, Green production, Zero emission, Resource circulation, Renewable energy, Biomass utilization, etc.
64040	Social-ecological systems-related
	Biodiversity, Conservation biology, Ecosystem services, Natural capital, Impact analysis on ecosystem, Ecosystem management, Ecosystem restoration, Ecological engineering, Regional environmental planning, Impact of climate change, etc.
64050	Sound material-cycle social systems-related
	Sound material-cycle systems, Material and energy budget analysis, Low carbon society, Unused energy, Regional revitalization, Water use system, Industrial symbiosis, Life cycle assessment (LCA), Integrated environmental management, 3R (reduction, reuse, recycle) social systems, etc.
64060	Environmental policy and social systems-related
	Environmental philosophy and ethics, Environmental laws, Environmental economics, Environmental information, Environmental education, Environmental social activities, Environmental management and governance, Consensus forming, Environmental safety and security, Social and public system, Sustainable development, etc.

## **(Reference 1) Review Panels and Other Matters**

### **1. Concerning KAKENHI Review**

**Omitted**

### **2. Review**

The review for Grant-in-Aid for Scientific Research is carried out based on application documents in the Academic Deliberation Council for Science and Technology of MEXT.

The review of "Continuous Research Area" of "Grants-in-Aid for Scientific Research on Innovative Areas" will be performed in a committee dedicated to each research area (which will include researchers who are not the member of the research area in question). Each reviewer will perform document-based review and the same reviewers will perform a panel review.

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

### **3. Review Methods, Points, and Other Matters**

The "details on assessment rules" ("Rules concerning the assessment for Grants-in-Aid for Scientific Research" (decided by the Research Grant Screening Section of the Academic Deliberation Council for Science and Technology in November 12, 2002) and "Screening Outline for Grants-in-Aid for Scientific Research, category "Scientific Research on Innovative Areas" (decided by the Research Grant Screening Section of the Academic Deliberation Council for Science and Technology in January 29, 2008) can be referred.

The "details on assessment rules" is published on the website for Grants-in-Aid for Scientific Research of MEXT.

(URL: [http://www.mext.go.jp/a\\_menu/shinkou/hojyo/1284403.htm](http://www.mext.go.jp/a_menu/shinkou/hojyo/1284403.htm))

### **4. Notification of the Screening Results**

#### **(1) Case of "Continuous Research Area (Publicly Offered Research) of "Grants-in-Aid for Scientific Research on Innovative Areas" and "Finished Research Area"**

- 1) The council will issue a notification in writing to the research institution on whether the research project has been selected or not, based on the results of the screening (planned for the beginning of April).
- 2) To investigators whose applications have not been selected and who wish to have the results disclosed for "Continuous Research Area (Publicly Offered Research)", the council is planning to disclose the approximate ranking, assessment per each element which is taken into account when rating, assessment on "consistency with research outline of the area described in application procedures", and the opinions leading to "inappropriate" or "insufficient" through the electronic application system (planned for April).

**(Reference 2)**

**Procedures on the Handling of Grants-in-Aid for Scientific Research (omitted)**

**(Reference 3)**

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

**(Reference 4)**

**Procedures on the Handling of JSPS Grants-in-Aid for Scientific Research (KAKENHI (Multi-year Fund)) (Omitted)**

## Inquiries

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

#### (1) For inquiries concerning the invitation of applications:

Division	Team in charge	Internal line and direct phone
General inquiries about the Application Procedures	Administrative Team for Grants-in-Aid	Direct phone:03-6734-4091 Switchboard:03-5253-4111 (Internal line:4091)
Grant-in-Aid for Scientific Research on Innovative Areas (Research in a proposed research area), Grant-in-Aid for Special Purposes	Grants-in-Aid for Scientific Research Team I and II	Direct phone:03-6734-4094 Switchboard:03-5253-4111 (Internal line:4094, 4308)

Office of Research Funding Administration, Promotion Policy Division, Research Promotion Bureau, MEXT

\* Available every day except on Saturdays, Sundays, National Holidays, the New Year Holidays (from December 29 until January 3).

#### (2) For inquiries concerning the use of the KAKENHI electronic application system:

##### • Call center:

Telephone: 0120-556-739 (toll-free)

\* Available from 9:30 to 17:30 every day except Saturdays, Sundays, National Holidays and the New Year Holidays (from December 29 until January 3)

##### • The following phone numbers are also available:

Institutional Research and Information Division, Policy Planning Department, Japan Society for the Promotion of Science

Telephone: 03-3263-1017, 1022, 1107, 1024

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

##### • e-Rad help desk:

Telephone: 0570-066-877 (Navi Dial)

\* Available from 9:00 to 18:00 except on Saturdays, Sundays, National Holidays and the New Year Holidays (from December 29 until January 3)

\* The following phone numbers are also available: 03-6631-0622

< Important points >

##### ① How to operate e-Rad

Manuals on how to operate e-Rad can be referred or downloaded from the portal site (URL: <https://www.e-rad.go.jp>). Please agree to the terms of service and apply.

##### ② Time period when e-Rad is available

(Monday to Sunday) 00:00 - 24:00 (in operation 24 hours a day, 365 days a year)

However even during the above-mentioned time period, the operation of e-Rad may be disrupted or suspended, when maintenance and inspection is being carried out. If the operation is scheduled to be disrupted or suspended, this will be announced beforehand on the portal site.

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

Office of Research Funding Administration, Promotion Policy Division, Research Promotion Bureau, the MEXT  
Telephone: 03-6734-4014

**(5) For matters related to the “Checklist Pertaining to the Current Status” based on the “Guidelines for Responding to Misconduct in Research”:**

Office for Promotion of Correct Research, Knowledge Infrastructure Policy Division, Science and Technology Policy Bureau, the MEXT  
Telephone: 03-5253-4111

**(6) For matters related to use of support by platform formed by "Foundation of Scientific Research Support":**

Grants-in-Aid for Scientific Research Team I and II, Scientific Research Aid Division, Research Promotion Bureau, MEXT  
Phone: 03-6734-4087

**(7) For matters related to “the National Bioscience Database”:**

National Bioscience Database Center, Japan Science and Technology Agency (JST)  
Telephone: 03-5214-8491

**(8) For matters related to the “Inter-University Bio-Backup Project”:**

Inter-University Research Institute Corporation National Institutes of Natural Sciences, IBBP Center, Executive Office  
Telephone: 0564-59-5930, 5931

**(9) For matters related to the “National BioResource Project”:**

Bio-Bank Division, Japan Medical Research and Development Organization Basic Research Division  
Telephone: 03-6870-2228

**(10) For matters related to the “Researchmap”:**

National Institute of Advanced Industrial Science and Technology  
Knowledge base information department service support center (in charge of Researchmap)  
Web inquiry form: <https://researchmap.jp/public/inquiry/>  
Telephone: 03-5214-8490  
(Open hours: 9:30 - 12:00, 13:00 - 17:00)

**(11) For matters related to the “Security Export Control Policy”:**

Ministry of Economy, Trade and Industry, Trade and Economic Cooperation Bureau, Trade Management Department, Security Trade Control Division  
Telephone: 03-3501-2800  
FAX: 03-3501-0996

**2. Application forms can be downloaded from the following website.**

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

URL : [http://www.mext.go.jp/a\\_menu/shinkou/hojyo/boshu/1351544.htm](http://www.mext.go.jp/a_menu/shinkou/hojyo/boshu/1351544.htm)