

# **Application Guidelines for the Cooperative Research Program in 2020**

The Primate Research Institute (PRI) is recruiting researchers for the Cooperative Research Program in 2020. See details below.

## **1. Eligibility Requirements for Applicants**

Researchers, graduate students (including senior year undergraduate students who will proceed to graduate school) with Institute/University affiliations or equivalent as of April 1, 2020. Applications from graduate students are encouraged.

## **2. Research Program Period**

April 1, 2020- March 31, 2021

## **3. Research Projects**

There are three categories of research projects. Please refer to page 6 and 7 for further details.

A: Planned Research Projects

B: Individual Research Projects

C: Continuously Accepted Research Projects

## **4. Application Documents**

Applicants should download the specified documents and submit your application from our website below.

<http://www.pri.kyoto-u.ac.jp/research/kyodo2020/index.html>

## **5. Application Deadline**

Wednesday, January 15, 2020

\*Except for applicants to type C (Continuously Accepted Research Projects) who wish to begin their research after April, 2020.

## **6. Research Allotment**

All category allotments will consist of 1 principal researcher and supporting (collaborating) researchers (if needed).

## **7. Number of Applications**

Applications are made for one project for one person.

## **8. The Prospective Host (Corresponding) Researcher at PRI**

Please contact the prospective host (corresponding) researcher at PRI in advance to apply for the expected research program and facilitate commencement of the research activity. For contact details, please refer to PRI web site.

If you are unsure with your research area at PRI, you need to contact the Cooperative Research Section in PRI. The section will intermediate for you and the prospective host (corresponding) researcher at PRI.

## **9. Results**

Selection will be done by the Cooperative Research Advisory Committee. We will contact successful applicants after decisions are made by the Center Management Committee. The results will be notified sometime in late March, 2020.

## **10. Graduate students, post-doctoral researchers or the equivalent**

You must obtain your supervisor's consent and confirm your effort rate if you apply as a principle researcher. We may contact your supervisor for confirmation.

This program should be carried out under a framework of being monitored by a supervisor, host researcher or relevant staff member. A research representative or a supervisor should be held responsible for any unforeseen accidents. A supervisor must take all possible precautions to ensure the safety of students involved in the research.

## **11. Requirements after Selection**

If your research contains any animal experiments or recombinant DNA experiment, an approval from your institute is necessary. You may be required to submit IOU, MTA and Health Certification after acceptance. You will be informed of the details by your host (corresponding) researcher at PRI.

## **12. Contact to Current Institution**

It is the responsibility of the applicant or host (corresponding) researcher to inform the applicant's current institution regarding commencement of the research project in advance.

## **13. Reports**

The principal researchers of adopted projects must submit a "Results Reports" upon completion of the research period. In addition, you must acknowledge the Cooperative Research Program in your presentations and publications. When you publish a paper that is derived from the Cooperative Research Program in a peer-reviewed journal or as a presentation at a scientific congress, you must inform to PRI online and include a description of the Cooperative Research Program on your presentation and publications as the achievement of the Cooperative Research Program. Refer to an e-mail that informs you on how to upload them. If you have changed your affiliation and e-mail address since the last time you were adopted in this program, please inform us. **If you have been adopted in the past and are applying in this year, your publication**

**results which are informed by January 15, 2020 will be considered during the selection process.**

#### **14. Information Disclosure Request**

The collected applications may be open to the public, with the exception of identifiable information. Please specify any information that you wish to be kept private by underlining the text in the application. This will be considered at the time of publication.

#### **15. Handling Personal Information**

Submitted personal information for this project will be protected in conformity with Kyoto University's Privacy Policy.

Kyoto University's Privacy Policy;

[http://www.kyoto-u.ac.jp/ja/privacy\\_policy](http://www.kyoto-u.ac.jp/ja/privacy_policy)

The Rule of Individual Information Protection on Kyoto University

[http://www.kyoto-u.ac.jp/uni\\_int/kitei/reiki\\_honbun/aw00209631.html](http://www.kyoto-u.ac.jp/uni_int/kitei/reiki_honbun/aw00209631.html)

#### **16. Accommodations**

PRI accommodation is available. For the reservation, ask your host (corresponding) researcher at PRI.

#### **17. Insurance**

We recommend to take out accident insurance etc. by yourself before you start your Cooperative Research Program. Kyoto University has general insurance for national university corporation. The insurance effects for the damages that Kyoto University causes damage of life, body or property of the third party and is liable for the legal responsibility. This insurance does not cover any accidents which happen during the Cooperative Research unless Kyoto University has legal responsibility of the accident.

#### **18. Further Information / Inquiries**

The Cooperative Research Section in PRI

Email: [pri-kyodo@mail2.adm.kyoto-u.ac.jp](mailto:pri-kyodo@mail2.adm.kyoto-u.ac.jp)

# **Introduction to the Cooperative Research Program**

## **1. Research category and screening**

The Cooperative Research Program consists of A: “Planned Research Projects”, B: “Individual Research Projects” and C: “Continuously Accepted Research Projects”. As this is one of the program of the Joint Usage / Research Center, the Cooperative Research Advisory Committee which consists of PRI faculty members and non-PRI faculty members will screen the submitted applications and the Center Management Committee will make the final decision.

You are permitted to apply the same project with the one in the previous year. In that case, you are required to explain the progress of the project and the reason why you need to continue the project in the application. It will be considered during the selection process.

## **2. Guidelines**

In PRI, all adopted research projects are bound by the rules of the “Guide for the Care and Use of Laboratory Primates” and of the “Guidelines for the Study of Wild Primates and the Introduction of Wild-born Primates for Research” from the standpoint of animal welfare and wildlife conservation for handling primates. Thus, we accept only research projects, which follow the above-mentioned guidelines.

## **3. Animal Experiments**

Before you apply for the Cooperative Research Program, you must fully consult with the prospective host (corresponding) researcher at PRI, and submit the Animal Experiment Plan which is approved by the institute of the applicant. Please refer to the PRI webpage about these guidelines in advance.

## **4. Primate Experiments at the place outside of PRI**

If a primate experiment needs a special experimental equipment or facility, you are allowed to move out the primates bred at PRI to the place outside of PRI and experiment at the place. You must submit the Application for primates experiment outside in addition to the Animal Experiment Plan.

## **5. License**

In case of experimentation with and observation of animals at PRI, all researchers are required to obtain an animal handling license depending on the level of invasiveness of the research before commencement of the project. The researchers are also recommended to attend educational training regarding animal experimentation at their current institutions. If you did not undertake such training at your institution before arrival at PRI, you are required to take Kyoto University’s educational training thereafter. A license valid for three years will be provided only after attending lectures and practical training for animal handling. Concerning studies of animals, it is essential to submit a photocopy of your negative results of the Certification of Tuberculin Test after project adoption.

## 6. Field Research

In case of field research involving with wildlife animals, you must fully consult with the prospective host (corresponding) researcher at PRI, and submit the Application for Field Research Permission before you apply for the Cooperative Research Program.

## 7. Compliance

Following project adoption, if the applicant fails to comply with the guidelines set by PRI or Kyoto University, he or she may be imposed a penalty, including the possible withdrawal of qualifications.

## 8. Use of Research Expense

We have strict regulations regarding the use of research funds (e.g. you will be required to post a postcard from a travel destination to certify that you are following your proposed schedule). Violation of regulations is subject to research cancellation and withdrawal of PRI research qualifications. The details are to be informed at the time of adoption.

## 9. Goods unavailable to use the provided research expense

The purchase of cashable goods (PC, tablet PC, digital camera, video camera, TV, recorder) is not allowed by using the research expense provided from the Cooperative Research Program.

## 10. Change of the Principle Researcher

Following project adoption, if the applicant would like to change the principle researcher due to unavoidable reason, submit an “Application for change of principle researcher”. You are allowed to change the principle researcher in case the prospective principle researcher is the supporting (collaborating) researcher and has a qualification of the Cooperative Research. You cannot change the research content. The Cooperative Research Advisory Committee will screen the application and the Center Management Committee will make the final decision.

If the change of the principle researcher is not permitted, he / she should withdraw and submit a Results Report upon termination.

## 11. Intellectual property

The results of the Cooperative Research Program are subject to “Kyoto University's intellectual property privacy policy”. All inventions (patents, utility model rights, design rights, trademarks) stemming from research results will be handled under contractual agreement with Kyoto University.

See the following website for further information (Japanese only):

[http://www.saci.kyoto-u.ac.jp/wp-content/uploads/2007/06/tizai\\_policy070628.pdf](http://www.saci.kyoto-u.ac.jp/wp-content/uploads/2007/06/tizai_policy070628.pdf)

# Supplemental explanations on three research categories

## Planned Research Projects

This cooperative research will be carried out under close collaboration with non-PRI researchers and PRI faculty members as promoters. Each project will in principle be maintained for 2 or 3 years, and the results will be compiled at the end of study period (even “Planned Research Projects” can be adopted as “Individual Research Projects” or “Continuously Accepted Research Projects” after discussion with the prospective host (corresponding) researcher).

The granted amount of the maximum of the research expense is 200,000 JPY and the amount of the research expense will be adjusted after the screening.

Summary of the assigned projects (in parentheses: the prospective host (corresponding) researcher; underlined: principal researcher)

○**Integrative studies on primate development: From the perspective of mind, body and life** [Prospective Schedule: 2018.4.1-2021.3.31]

(Ikuma Adachi, Masaki Tomonaga, Takako Miyabe, Misato Hayashi, Yuko Hattori)

In this project, we promote the integrative, comparative studies on cognition, physiology and morphology, behavior, and welfare in primates at the various developmental stages. Studies with variety of species and various disciplines are welcome.

For inquiry: [adachi.ikuma.2c@kyoto-u.ac.jp](mailto:adachi.ikuma.2c@kyoto-u.ac.jp)

○**Elucidating the structure and function of neural networks in novel gene-manipulated primate models**

[Prospective Schedule: 2020.4.1-2022.3.31]

(Masahiko Takada, Katsuki Nakamura, Takao Oishi, Shigehiro Miyachi, Kenichi Inoue)

This research project aims at elucidating the structure and function of neural networks in nonhuman primate animals, such as macaques and marmosets, using novel gene-manipulated models that are produced by a variety of viral vector systems and optogenetic / chemogenetic techniques.

For inquiry: [takada.masahiko.7x@kyoto-u.ac.jp](mailto:takada.masahiko.7x@kyoto-u.ac.jp)

○**Advancing cellular and molecular research with primate-derived samples**

[Prospective Schedule: 2020.4.1-2023.3.31]

(Hiroo Imai, Akihiko Koga, Munehiro Okamoto, Masanori Imamura, Hirofumi Akari)

Thousands of primate samples are held at our institute. DNA, RNA, and cultured cells are used for advanced molecular biology studies. In this research project, we aim to build knowledge on advanced techniques to analyze these samples as well as share this information and these samples for further examination in the future.

For inquiry: [imai.hiroo.5m@kyoto-u.ac.jp](mailto:imai.hiroo.5m@kyoto-u.ac.jp)

## **Individual Research Projects**

Aiming for total development of primate research, we are recruiting under the project “Individual Research”, which is based on an original study designed by applicants unrelated to the above “Planned Research Projects” (“Individual Research” can be adopted as “Continuously Accepted Research Projects” after discussion with your prospective host (corresponding researcher)).

The “Individual Research Projects” accepts the applications of long-term investigation, observation and experiments. Instead of the recent achievements, PRI puts importance on the necessity and the solid plan of the research. If you would like us to evaluate your application from this point of view, clearly indicate on the “Purpose of the research project” of the application sheet that you conduct the long-term research, and describe the detail of the long-term research on other parts as well. You must apply every single fiscal year even if your research is long-term, and your application will be screened every fiscal year. If you apply with the same project, describe the progress of the research.

The granted amount of the maximum of the research expense is 200,000 JPY and the amount of the research expense will be adjusted after the screening.

## **Continuously Accepted Research Projects**

Research facilities, subjects, data, and samples are all available at PRI. These facilities, subjects, data, and samples must be used appropriately. Books and journals are also available.

Regarding the adoption of research in the middle of the year, as a rule, you are eligible to apply only for research in which multiple use of your subject animals is possible. Please contact the prospective host (corresponding) researcher about this in advance.

Travel and research expenses will not be supported.

# **Screening items regarding feasibility of research plan**

## **1. Screening**

Five committees at PRI screen the feasibility in terms of facility, equipment, materials and permissions. You are required to fill out some confirmation items and the progress of the application. If you do not fill out all of the required items, the screening may be delayed or not be done.

The Cooperative Research Advisory Committee will screen the necessity and the reasonability of the planned research after reflecting opinions and results from each committee at PRI.

You may need to modify your application sheet if the committee requests. For details, please contact your prospective host (corresponding) researcher at PRI.

## **2. Utilization of Collection and Sampling**

In case of the use of the collection curated at PRI and samples provided (transferred or loaned) from breeding populations at PRI for the Cooperative Research Program, you are required to fill out the detail of your research plan.

Here “materials” include: 1) bodily fluids (blood, saliva, and semen), 2) internal organs, 3) muscles, 4) hair, 5) teeth and bones, 6) excreta, 7) DNA and RNA, 8) others (materials to be approved by PRI).

The Study Material Committee at PRI screens the material transfer and the required procedures of your planned research.

Applicants must confirm their compliance with the terms and conditions stated below upon submission of their application. You may need MTA or MOU depending on your research. For details, please contact your prospective (corresponding) researcher at PRI.

Regarding the handling of biological materials or samples from breeding/housed populations at the Primate Research Institute, Kyoto University, provided for the Cooperative Research Program:

1. Biological materials should be used for the Cooperative Research Program only and should not be used for any other purpose.
2. Commercial uses are prohibited.
3. Biological materials or samples are not authorized for reuse and cannot be given or loaned to third parties.
4. The recipient shall return all biological materials to PRI at the expiration of the program or dispose of them in an appropriate manner. For continuous use over a year, he/she must apply the Cooperative Research Program each year.
5. PRI accepts no liability for any outcome of the use of these biological materials.

## **3. Animal Experiment Plan**

In the event of planned research involving animal experiments (including blood sampling), submission of the Kyoto University Animal Experiment Plan is required. The project must be admitted as a research project that conforms to the Guide for Care and Use of Nonhuman Primates.

The supervisor in charge of the experiment must be a faculty member at PRI. Therefore, please contact your prospective host (corresponding) researcher regarding application submission and detailed plans in advance of the planned experiment.

For the planned research, the Animal Experimentation Committee judges the reasonability of the



research methods, and the reasonability of management and handling after daily or experimental treatments. In conformity with fundamental principles, “Unless proved otherwise, any painful treatment for human is treated as the same one for animals as well”. Appropriate methods with careful consideration of reduction of pain are important.

#### 4. Primate Experiments at the place outside of PRI

Your prospective host (corresponding) researcher needs to submit an “Application for primates experiment outside” for you to get an approval.

#### 5. Recombinant DNA or infectious agent

Your prospective host (corresponding) researcher needs to submit an “Application for recombinant DNA experiment” for you to get an approval for use recombinant DNA in PRI.

If you use infectious agent classified into BSL2 in PRI, your prospective host (corresponding) researcher must submit an “Application for handling BSL2” to the Biosafety Committee at PRI and get an approval. Therefore, consult with your prospective host (corresponding) researcher in advance.

#### 6. Field Research

In the event of planned research involving field research, you must comply with “Guidelines for the Study of Wild Primates and the Introduction of Wild-born Primates for Research”. You also need to comply the guideline when you collect samples, capture animals and conduct invasive experiments. The Field Research Committee screens the research method and the reasonability of the planned research in order to achieve research purpose. You may need to modify your application sheet if the committee requests. For details, please contact your prospective host (corresponding) researcher at PRI.

#### 7. Human Experimentation

In the event of planned research involving human experiment, you must submit “Application for human experiment”, understand the aim of protection of human rights mentioned on “Declaration of Helsinki”. Based on the Act on the protection of personal information held by administrative organs, your research should be permitted and admitted as safety and ethically-cared research.

A research responsible person must be a faculty member at PRI. Therefore, please contact your prospective host (corresponding) researcher regarding application submission and detailed plans in advance of the planned experiment.

The Human Experimentation Ethics Committee at PRI screens the reasonability of the research methods.

#### 8. Reference: Guidelines

Guideline for Care and Use of Nonhuman Primates (version 3)

[http://www.pri.kyoto-u.ac.jp/research/sisin2010/Guidelines\\_for\\_Care\\_and\\_Use\\_of\\_Nonhuman\\_Primates20100609.pdf](http://www.pri.kyoto-u.ac.jp/research/sisin2010/Guidelines_for_Care_and_Use_of_Nonhuman_Primates20100609.pdf)

Guidelines for the Study of Wild Primates and the Introduction of Wild-born Primates for Research

<https://www.pri.kyoto-u.ac.jp/research/guide-e2008.html>

Declaration of Helsinki

<http://www.med.or.jp/wma/helsinki.html>

Ethical Guideline for Medical and Health Research Involving Human Subjects(MEXT)

[http://www.lifescience.mext.go.jp/files/pdf/n1443\\_01.pdf](http://www.lifescience.mext.go.jp/files/pdf/n1443_01.pdf)

Guidance for Ethical Guideline for Medical and Health Research Involving Human Subjects(MEXT)

[http://www.lifescience.mext.go.jp/files/pdf/n1500\\_02.pdf](http://www.lifescience.mext.go.jp/files/pdf/n1500_02.pdf)

## **Availability and Number of Primate Species**

The information for “availability and number of primate species” has been updated on the website of the Primate Research Institute. Please check the link below and make your research plan.

<https://www.pri.kyoto-u.ac.jp/research/kyodo2020/teikyo-e.html>