



Joint Usage / Research Center for “Proteointeractome analysis (PRiME) ”

Proteo-Science Center, Ehime University

Public Call for Applications for FY2023

The Proteo-Science Center (PROS), Ehime University, promotes the discovery and identification of protein interactions based on technologies such as wheat cell-free protein synthesis, protein arrays, and proximal-dependent labeling enzymes (AirID). The PRiME Joint Usage / Research Center for “Proteo-interactome analysis” provides an integrated collaborative research platform for the analysis of proteins, verifying their functions at the proteome level. PRiME is now accepting applications for joint use and collaborative research for FY2023 from researchers in Japan and overseas.

1. Publicly Advertised Items

(A) Joint Usage (5-10 projects)

PROS provides technical support using wheat cell-free protein synthesis technology to synthesize more than 20,000 total human proteins, and arrays in which these proteins are on glass slides or in multi-well plates. We can also provide support for analysis of interacting proteins at the cellular and individual level using AirID. We invite applications for joint use from Japan and internationally, and in principle subsidize travel expenses (however, if a visit is cancelled due to COVID19, travel expenses and other cancellation fees and their use for consumable supplies will be allowed). In addition, a maximum of 150,000 yen per case per fiscal year will be subsidized, with any shortfall to be borne by the beneficiaries.

For further details, please contact the following persons;

- Protein Arrays

Hiroyuki Takeda: takeda.hiroyuki.mk@ehime-u.ac.jp

Hirotaaka Takahashi: takahashi.hirotaaka.rn@ehime-u.ac.jp

- AirID

Satoshi Yamanaka: yamanaka.satoshi.ze@ehime-u.ac.jp

Akira Nozawa: nozawa.akira.my@ehime-u.ac.jp

(B) Joint Research (20-30 projects)

PROS/PriME invites joint research proposals based on the applicant's research, from the understanding of basic molecular mechanisms of biology relating to protein interactomics to the elucidation of disease pathology and the development of diagnostic methods and treatments including drug discovery. In principle, the maximum amount of joint research expenses is 300,000 yen per proposal per fiscal year. For details, please consult with PROS faculty members.

In addition, this year we are inviting applications for joint use/joint research with the Institute for Protein Research (IPR), Osaka University, including analysis of protein structure, etc., as a special program. In this special program, the research proposal that effectively utilize both centers will be selected on a priority basis, and preferential measures such as allocation of shared resources (e.g., machine time) will be given to accepted special program proposals.

※Matching of proposed research with PROS faculty is also possible. If you wish to be matched for a meeting with a PROS faculty member prior to application, please contact Yuuki Imai: y-imai@m.ehime-u.ac.jp

2. Eligibility

Researchers (including graduate students) affiliated with faculties or other research institutions at universities in Japan or internationally, and those who are approved by the center director. If the Principal Investigator is a graduate student, please submit a Letter of Consent (Form 2) from the supervising professor of his/her laboratory. However, the principal investigator must be a researcher outside of Ehime University, and a PROS faculty member (whether full-time or adjunct) must be included in the research organization as a research subproject leader. We especially support young and female researchers, and respect diversity in terms of gender, age, nationality, race, etc.

3. How to Apply

After discussion with a PROS faculty member, please fill out the application form (Form 1-A: Joint Usage or 1-B: Joint Research) and submit it as a PDF file by e-mail to 11 as below.

4. Schedule

Public offering period: December 28, 2022 ~ January 23, 2023 ※strict deadline

Decision on adoption: Late March 2023

Collaborative Research Period: April 3, 2023 ~ March 31, 2024

5. Selection and Notification

The PriME Steering Committee, will make a decision on acceptance or rejection of the application and the amount of research funds to be allocated after comprehensively discussing the details of the application (necessity, originality, feasibility, *etc.* of the proposal). After the decision is made, the

applicant will be notified directly of the selected research proposal by the end of March 2023.

6. Reporting of Outcomes

Please submit the Research Results Report (Form 3) by e-mail to 11 below by **March 31, 2024**. The contents of the report will be made public. If you need to temporarily suspend the publication of the results because you have filed or plan to file a patent application, please submit a Request for Postponement of Submission of Joint Research Report (Form 4).

7. Publication of Results

If you have published your results in an academic paper or other academic publication, please state in the paper that it is a joint research project of the Center, and submit one reprint (PDF is acceptable) of the published paper to 11 below. If the paper is written in English, please describe in the "Acknowledgements" column thus:

This study was supported (partly) by the Joint Usage/Research Center for Proteo-Interactome (PRiME), the Proteo-Science Center, Ehime University

In addition, we may hold a debriefing session to report on the results and ask you to make a presentation.

8. Intellectual Property Rights

In the event that intellectual property is created as a result of this joint research, discussions will be held between the researchers and the department in charge of intellectual property at the organization to which the relevant joint research organization belongs regarding the applicability, ownership, procedures, *etc.*

9. Safety and Security Output Management

If the research organization includes researcher outside Japan, we may request the submission of materials for the relevant determination based on the Foreign Exchange and Foreign Trade Law (Foreign Exchange and Foreign Trade Law), if necessary, taking into consideration the country to which the researcher belongs and the content of the joint research project in question.

10. Genetic Resources

Please note that with the implementation of the "Guidelines for the Fair and Equitable Sharing of Opportunities for the Acquisition of Genetic Resources and Benefits Arising from their Utilization" from August 20, 2009, the acquisition of overseas biological samples (genetic resources) and research requires ABS procedures based on the Convention on Biological Diversity and the Nagoya Protocol.

11. Where to submit applications and for inquiries

Applicants must submit the application form (Form 1-A or 1-B) and the faculty advisor's approval letter (Form 2) as a PDF file by e-mail to the address below. Please download the application form and other forms from the PRiME website, below.

<https://www.pros.ehime-u.ac.jp/prime>

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