

Academic Year 2022 Glycan and Life Systems Integration Center, Soka University

[Joint usage / Joint research application requirements [Joint Research Fund and Application Materials]

The "Soka University Glycan and Life Systems Integration Center" (GaLSIC) has been authorized as a Joint Usage/Research Center by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) this year. At this institute, we aim to create a new academic field where glycobiology and glycan informatics are truly fused, and we would like to contribute to the progress of the life sciences. Glycans are important biomolecules involved in all life systems, but their analysis methods and importance are not fully understood by life science researchers other than glycoscientists. In order to advance the life sciences, it is necessary to analyze, understand, and utilize glycans at the same level as genomes and proteins in all fields of life science. Therefore, at this institute, we aim to provide the informatics resources, laboratory equipment and facilities of glycobiology, and glycan informatics expertise that we have accumulated so far. We are looking forward to carrying out joint research with many researchers in Japan and overseas.

[Application contents]

1. About joint research applicants

- Joint research shall be conducted in collaboration with researchers at this institute.
- Each researcher should establish and apply for a research theme related to research projects conducted at GaLSIC (see "Joint research themes" in "Joint research application materials"). Please consult with the host faculty member of this center in advance to plan your research proposal.
 - (Reference site: <https://www.soka.ac.jp/glycan/members/>)
- As a basic policy, themes will be assessed based on "whether or not there is a possibility of expanding the base of Glycan research fields".
- When applying, the principal investigator must obtain the consent of their affiliated university or institute to which he / she belongs (the head of the department, etc. is also acceptable) to carry out joint research. If the application is granted, you will be asked to submit a written consent at a later date.
- If students participate, they should be listed as "research collaborators" and not "Co-investigator".

2. Qualifications (Principal investigator)

Researchers (excluding students) who belong to universities and public research institutes in Japan and overseas and who intend to carry out research and education with high public interest, or those who are deemed appropriate by the director of this institute.

3. Joint research fund (budget allocation and execution method)

- We will notify the principal investigator of the acceptance / rejection and the granted amount.
- The budget will not be directly allocated to the principal investigators, but in principle, it will be allocated for travel expenses to visit GaLSIC for joint research as well as for necessary consumables. (up to ¥100,000 for domestic researchers and ¥200,000 for overseas researchers)
- Payment of travel expenses, etc. will be made based on the relevant regulations of Soka University.
- Travel expenses for research collaborators (students) are not covered by this grant.
- Consumables are items with an acquisition price of less than ¥50,000 per item or set, or items that do not become assets with a useful life of less than one year. In principle, it is limited to those used at this institute. The maximum usage amount for consumables is ¥100,000 for both domestic and

overseas researchers.

4. Research period

From the date of adoption to March 31, 2023.

* If you wish to extend the length of the project, reapplication is possible the following year, up to a total of three academic years upon approval by the institute.

5. How to apply

(1) Please fill in the attached Application form [Form 1] and submit it by e-mail.

(2) Please state "Joint Usage and Research Application" in the subject of the email.

(3) Submission deadline: Saturday, April 30, 2022

(4) Address: Soka University Glycan and Life Systems Integration Center Office [Faculty of Science and Engineering Office]

Email address: galsic★≡soka.ac.jp (replacing “★≡” with “@”)

6. Regarding grant decision [Announcement Date: Friday, May 27, 2022]

The application will be examined by the GaLSIC examination committee, and the applicant will be notified of the grant decision by e-mail. In addition, for those who have been awarded grants, the names of the principal investigators and their affiliated institutions will be announced on the GaLSIC website. Please note that the names of the selected research projects will be published together with the results report on the GaLSIC website at the end of the following academic year.

7. Procedures required after grant acceptance

Joint research contract: A joint research contract will need to be signed by both parties after acceptance. Details will be announced separately.

Please send Agreement Form [Form 2] by e-mail within two weeks after notification of acceptance.

8. Research report

Principal investigators are requested to submit the Research Report [Form 3A・B] by Friday, April 28, 2023.

Research Report (Form 3A) will be published on the Institute's website at the end of the following academic year and included in the same report.

9. Acknowledgement of this joint research project

Please be sure to acknowledge the results of this research in publications and research reports.

Example: This work was supported by the GaLSIC collaborative research fund, Soka University, Japan.

10. Contact

For any questions or inquiries, please contact us:

1-236 Tangi-machi, Hachioji-shi, Tokyo, Japan Zip code 192-8577

Soka University Glycan and Life Systems Integration Center Office [Faculty of Science and Engineering Office]

TEL: 042-691-9400 FAX: 042-691-9311

Email address: galsic★≡soka.ac.jp (replacing “★≡” with “@”)

Soka University Glycan and Life Systems Integration Center

[Joint Research Fund Application Materials]

1. Potential joint research themes

- (1) Research on the function of glycan genes (glycosyltransferases, transporters, etc.)
- (2) Research on glycans related to development, infection, immunity, nervous system, etc.
- (3) Glycan research related to human diseases
- (4) Research using glycan databases
- (5) Research using glycan-related data analysis (including omics research and machine learning)
- (6) Training of glycoscience researchers
- (7) Collaboration with domestic and overseas organizations as a joint usage / research center
- (8) Other relevant studies related to glycans

2. Available databases and equipment

Database server facilities, confocal laser scanning microscopes, cell sorters, radioisotope experimental facilities, etc. are available. Proposals should be made in collaboration with a researcher affiliated with GaLSIC, so please consult with the host researcher beforehand.

3. Contact list (potential host researchers)

Contact information for faculty members at GaLSIC

<https://www.soka.ac.jp/glycan/members/>

Professor Shoko Nishihara	shoko★≡soka.ac.jp
Professor Kiyoko Aoki-Kinoshita	kkiyoko★≡soka.ac.jp
Professor Sayaka Takase	takase★≡soka.ac.jp
Professor Kazuyuki Nakajima	nakajima★≡soka.ac.jp
Professor Soichi Sakabe	sakabe★≡soka.ac.jp
Professor Norihiko Shinomiya	shinomi★≡soka.ac.jp
Professor Syuichiro Goda	goda★≡soka.ac.jp
Professor Akira Togayachi	togayachi★≡soka.ac.jp
Associate Professor Kazuo Fujiwara	fujiwara★≡soka.ac.jp
Senior Lecturer Kazuyoshi Ito	kazuyoshi★≡soka.ac.jp
Assistant Professor Masae Hosoda	mhosoda★≡soka.ac.jp
Assistant Professor Eriko Aoki	eaoki★≡soka.ac.jp
Professor Tatsuo Unemi	unemi★≡soka.ac.jp
Professor Masamichi Ikeguchi	ikeguchi★≡soka.ac.jp
Professor Masato Ito	itomasa★≡soka.ac.jp
Professor Masayasu Atsumi	matsumi★≡soka.ac.jp
Professor Hideki Kawai	kawai★≡soka.ac.jp
Associate Professor Daisuke Kasamatsu	kasamatsu★≡soka.ac.jp

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4. Submission of application form for Radiation Workers & RI Implementation Plan

If the radioisotope facility is to be used in this institute for joint research, the registration procedure for radiation workers must be completed.

5. Recombinant DNA experiments, experiments using biosafety level 2 or higher microorganisms, and experiments using designated toxins

If such experiments are involved in the joint research, approval by the ethics committee of Soka University is required.

6. In each joint research, if animal experiments are involved at this institute, approval by the ethics committee of Soka University is required.

7. Research on humans and specimens obtained from human samples

If joint research involves "research on humans and specimens obtained from humans" at this institute, approval by the ethics committee of the institution to which the researcher belongs is required in advance. In addition, examination and approval by the Soka University Institutional Review Board for Human Research, the Soka University Life Science Ethics Committee, or both committees may be required. You will also be required to submit a written consent approved by your institution when applying for joint research.

8. Human Genome / Gene Analysis Research

If joint research involves "human genome / gene analysis research" at this institute, approval by the ethics committee of the institution to which the researcher belongs may be required in advance. In addition, examination and approval by the Soka University Institutional Review Board for Human Research, the Soka University Life Science Ethics Committee, or both committees will be required. You may be asked to submit a written consent approved by your institution when applying for joint research.

[Contact]

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