Application Guidelines for 2027 NIG-JOINT
(Joint Research and Research Meeting)
National Institute of Genetics,
Research Organization of Information and Systems

1. Application Guidelines

(1) NIG-JOINT

National Institute of Genetics solicits joint research to be conducted between researchers from other universities or institutes and NIG faculties using NIG facilities and equipment on the proposed project. There are three types of research project: NIG-JOINT (A), NIG-JOINT (B) and NIG-JOINT (I).

As a general rule, travel expenses are provided to the researchers visiting NIG. NIG-JOINT projects should be conducted during the period of time from April 1st, 2027 to March 31st, 2028. Applicants may submit renewal applications to continue the same research project for up to three consecutive years.

※Beginning in fiscal year 2026 (herein "FY2026"), applications for research expenses may also be submitted for Joint Research (A) and International Joint Research.

① NIG-JOINT (A)

- Eligible applicants are researchers affiliated with domestic or overseas universities or research institutes. Travel and research expenses (supplies and other expenses used within NIG) required for the joint research are provided.
- Up to 150,000 yen (JPY) can be requested per applicant for both travel and research expenses; however, research expenses are limited to a maximum of 50,000 yen.

*****For researchers coming from overseas, up to 200,000 yen (JPY) may be requested for combined travel and research expenses. This is a special measure to account for the higher cost of international travel. Whether this measure will continue beyond FY2028 has yet to be decided.

② NIG-JOINT (B)

- Eligible applicants are researchers affiliated with domestic or overseas universities or research institutes. Travel and research expenses (supplies and other expenses used within NIG, in principle) required for the joint research are provided.
- The joint research should be planned and conducted such that the applicant or his/her joint research members, whose names are listed on the application, stay at NIG for at least 5 days in total during the research period.
- Up to 700,000 yen may be requested by an applicant for combined travel and research expenses.
- The number of applications accepted will be limited compared to NIG-JOINT (A).
- You may simultaneously apply for NIG-JOINT (A) in case application for NIG-JOINT (B) is not approved. If you wish to take this option, please put a circle mark in the appropriate space and fill in your budget for (A). In this case, domestic researchers may request up to 150,000 yen for travel and research expenses, and, in accordance with ① supplementary provision for Joint Research (A), overseas researchers may request up to

200,000 yen. Research expenses are limited to a maximum of 50,000 yen.

③ NIG-JOINT (I) －International Joint Research－

- Eligible applicants are researchers affiliated with domestic or overseas universities or research institutes. Travel and research expenses (supplies and other expenses used within NIG) required for the joint research are provided.
- Up to 350,000 yen (JPY) may be requested per application for both travel and research expenses, exceeding the 200,000 yen limit for Joint Research (A); however, research expenses are limited to a maximum of 50,000 yen.
- About 5 Projects will be selected.
- You may simultaneously apply for NIG-JOINT (A) in case application for NIG-JOINT (I) is not approved. If you wish to take this option, please put a circle mark and fill in your budget for (A) (up to 200,000 yen) in the appropriate spaces in the application.

(2) Joint Research Meeting

The research meeting is held for a comparatively small number of researchers from inside and outside of NIG. Since the research meeting must be held at NIG, travel expenses to visit NIG will be provided only for researchers from outside NIG. (The meeting cannot be held outside the NIG). However, if necessary, the research meeting may be held via an online meeting system or as a hybrid format.

The meeting must be held during the period from April 1st, 2027 to March 31st, 2028.

- Eligible applicants are NIG faculty and researchers affiliated with domestic or overseas universities or research institutes. Travel expenses to attend the meeting will be provided.
- For the research meetings held with online meeting systems, the minimum contract fee required to use the online meeting tool will be provided.
- Up to 350,000 yen may be requested by an applicant.

2. Applicants

The applicants should be, as a general rule, researchers affiliated with universities, inter-university collaborative research institutes and independent administrative organizations in Japan or researchers affiliated with overseas universities or research institutes. Please note that graduate students are not eligible to apply as the project representative, but they may be included as members of the joint research team.

3. Application

The application must be completed via the online application system called “Joint Research On-line Integrated System (JROIS)”.

JROIS: https://jrois2.jrois.rois.ac.jp/

(Instructions for operating the application system can be downloaded from the above URL.)

For more details regarding the online application system, please refer to the following NIG webpage (NIG-JOINT page).

https://www.nig.ac.jp/en/researchers/nig-joint/

(1) The same applicant may only apply as a research representative for one joint

research proposal and one research meeting.

(2) Before submitting the application, the applicant must consult closely with the prospective NIG representative regarding the research project, title of research meeting, members, budget and other necessary matters. Overviews of research being conducted by researchers at NIG are described at the end of this application guideline.
For contact information, please refer to the NIG website.
https://www.nig.ac.jp/en/public/research-infrastructure/

(3) Approval from the head of your affiliated institution is not required. However, if your institution requires approval or other internal procedures, please be sure to complete all such procedures before submitting your application.

(4) Application forms must be uploaded and submitted in PDF・DOCX・ZIP format to JROIS.
The application form can be downloaded from the link below.
https://www.nig.ac.jp/en/researchers/nig-joint/

4. Online Application Deadline

Applications must be submitted no later than noon (12 PM JST) on Thursday, December 10th, 2026.
***Your application will not be accepted under any circumstances if you don't submit it by the above deadline.**

5. Selection

The outcome of selection and amount of budget allocation are determined after screening by NIG committee and research representatives will be notified via e-mail by the end of March 2027. Applications from those who have been adopted as research representatives in the past, regardless of whether it is a new or a continuous project, will be reviewed with an emphasis on the status of the past budget implementation.
Please note that the implementation rate for proposals adopted in the past will be considered as one of the criteria in the evaluation of applications.
Please also note that the allocation amounts may be reduced due to limited budget.

6. Change of Research Group

(1) If there is a change in the research representative's organization or position, the said researcher must change the registered information on the "Edit User" screen of JROIS website.

(2) If there is a change in research representative, addition or removal of joint research members, or a change in the joint research member's organization or position, action should be taken immediately either by submitting an addition/change form (only in Japanese) through the NIG representative, or the applicant should apply for the addition, removal or change by clicking the "Research organization change/Transfer application" button on the Edit Application screen of JROIS website, and then selecting the application type.

(3) The NIG representative must submit the cancelation form in the event that the joint research and/or a Joint Research Meeting is unable to be conducted due to unavoidable circumstances.

7. Expenses Provided

(1) The travel and research expenses are to be provided by NIG based on the rules of Research Organization of Information and Systems (ROIS). Because the expenses are allocated only to NIG, not to other organizations, they should be claimed through an NIG representative. When conducting joint research at NIG, you are required to stay at the NIG guest house. However, if the NIG guest house is fully booked, or if you will be conducting the research at the Database Division for Life Science (DBCLS) in Kashiwanoha Campus, you may stay at a nearby hotel. In addition, when attending a Joint Research Meeting, you may also stay at a nearby hotel.
Accommodation fees will be reimbursed up to 4,800 yen/night for faculty members and researchers and 3,200 yen/night for students who stay at the NIG guest house. For those who stay at a nearby hotel, accommodation fees will be reimbursed up to 12,000 yen/night for faculty members and researchers and 8,000 yen/night for students. Please note that travel expenses may not be fully provided if other business or private site visits are included in the trip.

(2) Research representatives are requested to spend the full amount of the budget as soon as possible. If you are unable to spend the full amount due to unavoidable circumstances, please submit a statement explaining the reason (free format) and return the unspent portion of the budget by the end of December. Additionally, we request that you contact the Research Promotion Team as soon as it becomes obvious that the budget will not be fully spent.

8. Submission of Research Report

The research representatives are required to fill in the "FOR MEXT Report (at the end of research)" on the Edit Application screen of JROIS by April 30th, 2028 for both "Joint Research" and "Research Meeting" and upload the research report in PDF・DOCX・ZIP format from the same screen for submission.
The research report form can be downloaded from the link below.
https://www.nig.ac.jp/en/researchers/nig-joint/#requests

9. Publication of Research Result

You are requested to acknowledge NIG joint research as follows when results based on this research project are published, and upload a copy of the papers together with the research report via the JROIS submission page. If you have already submitted your research report, please inform the Research Promotion Team (kyodo-mail@nig.ac.jp) via email.

NIG-JOINT (reference number)
*Reference number【serial number + category (A,B or I) + year】, will be issued in the

"acceptance notification" which will be sent to the successful applicant.
Example:（Successful applicant：John Smith, reference number：1A2027）
"This work was supported by NIG-JOINT (1A2027) to J. Smith."

10. Others

(1) NIG facilities and common equipment are available to be used for the joint research. Please refer to the following URL for the available common equipment.
https://www.nig.ac.jp/en/researchers/equipment/

(2) When holding a Joint Research Meeting, NIG representatives are requested to post the meeting schedule on the NIG website and inform all NIG members at least one month prior to the date of the meeting.

(3) If gene recombination and/or animal experiments are planned, NIG representatives are requested to submit an "experiment on gene recombination plan" and/or "experiment on animals plan" application form to the Research Promotion Team after acceptance of the application. As for animal experiments, researchers directly handling experimental animals are requested to apply for an NIG qualification screening and undergo training regardless of their affiliation. We strongly hope that all researchers comply with regulations and conduct the research properly.

(4) Researchers who handle radioisotopes at NIG are requested to register as a radiation worker before using them.

(5) Ownership of intellectual property rights created through joint research at NIG will be considered based on the regulations of ROIS employee invention.

(6) NIG assures that private information submitted in the application shall be used only for screening the proposal. When a proposal has been accepted, the name of the research representative, his/her institute and the research project title will be posted on the NIG website and annual reports.

(7) As a general rule, in an effort to simplify procedures NIG does not issue a "business-trip request" form for Joint Research or Research Meetings.
We sincerely ask outside researchers visiting NIG to follow appropriate business trip procedures according to the rules of their affiliated institute.

(8) Principal investigators or co-investigators who require temporary childcare may be eligible to use the temporary childcare services offered by NIG.
(Reference) Gender Equality Promotion Office Website:
https://sites.google.com/site/nigdanjoenglish/4-day-care

【Contact Information】

Research Promotion Team,
Research Support Office,
General Affairs and Project Section,
Department of Administration
National Institute of Genetics, Research Organization of Information and Systems
Yata1111, Mishima, Shizuoka, 411-8540 JAPAN
Phone: +81-55-981-6728
E-mail: kyodo-mail@nig.ac.jp

Research Outline

(Updated: October 1st, 2026)

Department/Center	Laboratory/Division	Faculty	Research outline
Department of Informatics	Genetic Informatics	**KAWAMOTO, Shoko** /Associate Professor	We are working on research and development of databases and information retrieval systems for the national bio-resource project (NBRP).
	Genome Evolution	**KUROKAWA, Ken** / Professor	We are interested in understanding microbial genome evolution and microbial community dynamics, and we are currently pursuing the following two major research directions; I. Facilitate the development of an integrated database "MicrobeDB.jp", II. Microbial community dynamics.
	Genome Diversity	**MORI, Hiroshi** / Associate Professor	Our main research goal is to understand the relationships between the habitat of organisms and genome diversity. To facilitate the studies using comparative genomics and metagenomics, we are also developing various bioinformatics methodologies.
	Biological Networks	**ARITA, Masanori** / Professor **KOSHIMIZU, Shizuka** / Assistant Professor	Network analysis of metabolic pathways based on comprehensive identification and quantification of metabolites (metabolomics); Bioinformatics related to plant secondary metabolism and lipid metabolism
	Genome Informatics	**NAKAMURA, Yasukazu** / Professor	Intelligent information technology for structural and functional annotations of large-scale nucleotide sequences.
	Human Population Genomics	**KAWAI, Yosuke** / Professor **FUJIWARA, Kazumichi** / Assistant Professor	Using data from large-scale genomic analyses, we conduct fundamental research on human population history and evolution, as well as applied research aimed at understanding the mechanisms underlying human diseases.
Department of Genomics and Evolutionary Biology	DNA Data Analysis	**IKEO, Kazuho** / Associate Professor	Evolutionary study of genomic structure and gene expression patterns to elucidate the evolutionary mechanism of central nervous system and sensory organs. Evolutionary genomics analysis of various species. Metagenome analysis. Developing databases and computer software for biological research.

	Plant Genetics	**SATO, Yutaka** / Professor	The goal of our research is to understand molecular mechanisms governing early processes of plant development using a series of rice embryogenesis defective mutants. Currently we are focusing on the mechanism of regulating the cell division pattern and plasticity in cellular differentiation in rice embryo.
	Evolutionary Genetics	**AKASHI, Hiroshi** / Professor	We infer mechanisms of genome evolution using population genetic and comparative genomic approaches. Current interests include global forces such as biosynthetic constraints that underlie weak selection.
	Ecological Genetics	**KITANO, Jun** / Professor **YAMASAKI, Yo** / Assistant Professor	We use three-spined stickleback fish to investigate the genetic and molecular mechanisms underlying adaptation and speciation.
	Comparative Genomics	**TOYODA, Atsushi** / Project Professor	We have been conducting advanced genomics research on the plasticity of genome structure and functions using advanced genome technologies such as New-Generation Sequencers.
	Molecular Life History	**KURAKU, Shigehiro** / Professor **KAWAGUCHI, Akane** / Assistant Professor	We focus on vertebrates and bridge molecular-level laboratory approaches and genome informatics, in order to document genome evolution and elucidate its mechanism.
Department of Gene Function and Phenomics	**Symbiosis and Cell Evolution**	**MIYAGISHIMA, Shin-ya** / Professor	In order to understand endosymbiotic evolution of eukaryotes, we are studying coordinating mechanisms of eukaryotic cell and organelle/endosymbiont proliferation using algae, plants, and protists.
	Bacterial Motility Machinery Laboratory	**MINAMINO, Tohru** / Professor	Many bacteria move through their environments using flagella. By combining genetic and biochemical analyses with biophysical and structural biology approaches, we aim to elucidate the molecular basis underlying flagellar assembly and motility.
	Plant Cytogenetics	**NONOMURA, Ken-ichi** / Professor **Harsha Somashekar** / Assistant Professor	We aim to elucidate the regulatory system of plant germ-cell development and chromosome kinetics, mainly using seed-sterile rice mutants.

	Mammalian Neural Circuits	**IWASATO, Takuji** / Professor **MATSUMOTO, Naoyuki** / Project Assistant Professor	We are studying molecular and cellular mechanisms of neuronal circuit development in the mammals, using mouse genetics and other related methods.
	Neurobiology and Pathology	**ASAKAWA, Kazuhide** / Associate Professor **NAKAJO, Haruna** / Assistant Professor	Using zebrafish as a primary model, we study the biology and disease of the motor system at the behavioral, circuit, cellular, and molecular levels. The ultimate goal is to identify the root causes of ALS and to develop therapeutic strategies through comprehensive and multidimensional basic research.
	Multicellular Organization	**SAWA, Hitoshi** / Professor **NEGISHI, Takefumi** / Assistant Professor	We are studying the mechanisms that produce a variety of cell types through asymmetric cell divisions using the nematode *C. elegans*.
	Brain Function	**HIRATA, Tatsumi** / Professor	Development of the vertebrate nervous system with special focus on neuronal network formation.
Department of Chromosome Science	**Genome Dynamics**	**MAESHIMA, Kazuhiro** / Professor	Our research interest lies in determining how a long string of genomic DNA is three-dimensionally organized in living cells, and how the organized genome functions during cellular proliferation, differentiation, and development. We are using a novel combination of molecular cell biology and biophysics to elucidate 3D-organization and dynamics of human genome chromatin.
	Cell Architecture	**KIMURA, Akatsuki** / Professor **TORISAWA, Takayuki** / Assistant Professor	To understand the three-dimensional architecture of the cell and its dynamics, quantitative imaging and modeling approaches are employed. Specific targets of the research are size and shape of organelles, the mechanics of cytokinesis, and cytoplasmic streaming in the *C. elegans* embryo.
	Chromosome Biochemistry	**MURAYAMA, Yasuto** / Professor **KUROKAWA, Yumiko** / Assistant Professor	We investigate the molecular mechanisms underlying regulation of chromosome organization and dynamics by recapitulating their biochemical reactions using purified proteins. We now especially focus on SMC complexes.

	Physics and Cell Biology	**SHIMAMOTO, Yuta** / Associate Professor **TANAKA, Masahito** / Assistant Professor	Our laboratory studies self-organization and mechanical properties of subcellular structures, such as the nucleus and the mitotic spindle. We develop and use quantitative subcellular micromanipulation, optical tweezers, single-molecule imaging and in vitro reconstitution to unveil the underlying biophysical mechanisms.
	Invertebrate Genetics	**SAITO, Kuniaki** / Professor	We are conducting research on the physiological significance of the epitranscriptome and human rare diseases, using *Drosophila melanogaster* as a model.
Department of Frontier Research	**Gene Quantity Biology**	**SASAKI, Mariko** / Associate Professor	We study molecular mechanisms underlying genomic changes in eukaryotic cells. We mainly use budding yeast and human cell cultures and analyze genomic changes that result in changes to DNA quantity, using genetic and molecular biology tools. We specialize in isolating Mbp-sized DNA and separating it by Pulsed-Field Gel Electrophoresis.
	Plant Evolution	**FUKUSHIMA, Kenji** / Associate Professor	Our research aims to demystify evolutionary innovations by integrating computational and experimental approaches to study a wide range of organisms, with a particular focus on plants.
	Theoretical Ecology and Evolution	**YAMAMICHI, Masato** / Associate Professor	We combine mathematical models, microcosm experiments, and meta-analyses to investigate complex feedbacks between rapid evolution and ecological processes.
Chemical and Radioisotope Management Unit		**ANDACHI, Yoshiki** / Assistant Professor	We study microRNA-mediated post-transcriptional regulation in *C. elegans* using our original methods for the detection of microRNAs and target genes.

BioData Science Initiative (BSI)	**Database Division for Life Science (DBCLS)**	**GOTO, Susumu** / Professor **KATAYAMA, Toshiaki** / Project Professor **KAWASHIMA, Shuichi** / Project Associate Professor **KAWASHIMA, Minae** / Project Associate Professor **KIM, Jin-Dong** / Project Associate Professor **HATANAKA, Hideki** / Project Associate Professor **FUJIWARA, Toyofumi** / Project Associate Professor **MORIYA, Yuki** / Project Associate Professor **YAMAMOTO, Yasunori** / Project Associate Professor **CHIBA, Hirokazu** / Project Assistant Professor **HOSODA, Masae** / Project Assistant Professor **MORIOKA, Masaki** / Project Assistant Professor	We are building databases and pursuing related research and development to make life science, medical and pharmaceutical data easier to use and reuse. We also aim for the outcomes of this work to contribute to applied research in areas such as drug discovery.
Integrated Research Core (NIGiRC)		**TORII, Kotaro** / Project Associate Professor	We develop and apply technologies to obtain longitudinal molecular information from the same living cell or organism, capturing life trajectories that connect molecular dynamics unique to each life with its fate. By uncovering the individuality embedded in these trajectories, we seek to understand life at the level of the individual.
		MATSUSHIMA, Wayo / Project Associate Professor	Focusing on genetic elements derived from transposable elements and transcription factors controlling them, we will unravel mechanisms that have rapidly evolved gene regulatory programmes. We will combine multiomic analyses on mammalian cell lines and comparative genomic analyses to achieve this goal.
	Advanced Genomics Division Sequencing Laboratory	**TOYODA, Atsushi** / Project Professor **GOTOH, Yasuhiro** / Associate Professor	We study bacterial diversity and evolution using genomics-based approaches to understand selection mechanisms driving them and their actual state in the environment.

	Advanced Genomics Division Data Analysis Laboratory	**NOGUCHI, Hideki** / Project Professor **MORI, Hiroshi** / Associate Professor **HIGASHI, Koichi** / Associate Professor **KOSUGI, Shunichi** / Project Associate Professor **KRYUKOV, Kirill** / Project Associate Professor **TERAUCHI, Makoto** / Project Assistant Professor	We are developing computational methods to reconstruct genome structures and predict functional regions from sequence data of diverse species and conducting research applying these methods. We are also developing new analytical methods using next-generation sequencers.