



PEACE Student Exchange Program

Project of Effective Action with CLMV's Education to promote the Capacity of Research and Social Planning for Peaceful, Inclusive, and Sustainable Development

<http://peace-program.hiroshima-u.ac.jp/en/>

HIROSHIMA UNIVERSITY

University of World-wide Repute and Splendor for Years into the Future

<https://www.hiroshima-u.ac.jp/en>



ABOUT THE PROGRAM

THE FIVE GUIDING PRINCIPLES

PEACE Student Exchange Program builds on Hiroshima University's five guiding principles:

The Pursuit of Peace

The Creation of New Forms of Knowledge

The Nurturing of Well-Rounded Human Beings

Collaboration with the Local, Regional and International Community

Continuous Self-Development

MISSION

In order to achieve the UN's *Sustainable Development Goals* (SDGs), Hiroshima University aims to educate future professional resources personnel, who will contribute their knowledge and skills to the improvement of social infrastructure in Cambodia, Laos Myanmar, Vietnam, and Thailand.

GOALS

In order to educate future professional resource personnel who can achieve UN's SDGs for sustainable development, we will develop their competencies so that they can turn those concepts and goals into concrete public projects and businesses. In particular, we aim to develop the following two types of competencies:

Research Capacity—the ability to clarify issues and challenges by scientifically determining the cause(s) of the problem, through the analysis of large amounts of data accumulated in the past.

Social Planning Capacity—the ability to design, based on a full understanding of the cause(s) of the problem, a concrete and creative business or policy, and a willingness to put it into action.



HIROSHIMA UNIVERSITY



Hiroshima University of Economics

EDUCATION PROGRAM

Hiroshima University, in collaboration with Hiroshima University of Economics, offers the following range of courses, internship, and seminars:



SDGs Professional Education

- A total of 271* courses taught in English (*two universities combined)



"Study on International Issues and Challenges"

- Acquiring independent research skills
- Improving research presentation skills



SDGs Entrepreneurship Education

- A total of 21* courses taught in English (*two universities combined)
- Improving business and policy design skills
- Joining internships in local companies, etc.
- Visiting local Japanese companies committed to the SDGs



PEACE-SDGs Idea Mining Seminar

- Joint international seminars held in English
- Facilitation by professional coordinators
- The "Münster Method"



Hiroshima University reports the SDGs

SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD



Schedule for the Academic Year 2019 (Class Schedule)

1st(Spring) Semester	Sun	Mon	Tue	Wed	Thu	Fri	Sat
2019		1	2	3	4	5	6
April	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30				
May				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
June							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
July							
		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
August							
					1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
September							
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
October							
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
November							
December							
January							
February							
March							

2nd(Autumn) Semester	Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4	5
October							
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
November							
December							
January							
February							
March							

Autumn Term Entrance Ceremony (Oct.1,2019)

Substitute class day (Oct.16) :Mon



Substitute class day (Oct.25) :Tue

Substitute class day (Nov.7) :Mon

Substitute class day (Dec.25) :Fri

Substitute class day (Jan.14) :Fri

National Center Test for University Admissions (Jan.18-19, 2020)
(Depending on the department, there will be no classes on the day before the NCT.)

 Substitute class day  Holiday period

 1st term (Apr.8, 2019-Jun.10, 2019)  2nd term (Jun.11, 2019-Aug.7, 2019)  3rd term (Oct.2, 2019-Nov.29, 2019)  4th term (Dec.2, 2019-Feb.6, 2020)

<Substitute class day>

【1st Term】 No substitute days.

【3rd Term】 Oct.16, 2019(Wed) will be a substitute for a Monday class.

Oct.25, 2019(Fri) will be a substitute for a Tuesday class.

Nov.7, 2019(Thu) will be a substitute for a Monday class.

【2nd Term】 Jul.17, 2019(Wed) will be a substitute for a Monday class.

【4th Term】 Dec.25, 2019(Wed) will be a substitute for a Friday class.

Jan.14, 2020(Tue) will be a substitute for a Friday class.

<Exam schedule for the Academic Year 2019>

Semester	Class	Period
1st(Spring) Semester	1st Term	Jun.4, 2019 (Tue) - Jun.10, 2019 (Mon)
	2nd Term	Jul.30, 2019 (Tue), Aug.1,2019(Thu) - Aug.7, 2019 (Wed)
2nd(Autumn) Semester	3rd Term	Nov.25, 2019 (Mon) - Nov.29, 2019 (Fri)
	4th Term	Jan.31,2020(Fri) - Feb.6, 2020 (Thu)

※In the case that a large number of students must take an exam at the same time, the teacher will consult with the Education Promotion G(Liberal Arts Education) or the support office of each department for details on extra test-taking spaces, etc.

※For the examination schedule, please check the "Exam Information" section on the MOMIJI website or contact the teacher of the course.

2019 PEACE Student Exchange Program at Hiroshima University

We are pleased to announce the 2019 PEACE Student Exchange Program at Hiroshima University. Graduate School of Science (GSS) invites outstanding students to apply for the PEACE program of academic year of 2019 with following information.

1. The Number of Students: **5**

Months at GSS	Eligibility for JASSO scholarship	Number of students	Remark
3 months (Minimum of 2 months)	No	3	Graduate school of science will cover student's accommodation fee.
3 months	Yes	2	

2. Exchange Program

For Admission in June 2019

The Application for Admission must reach GSS no later than March 6, 2019

For Admission in September 2019:

The Application for Admission must reach GSS no later than May 31, 2019

3. Eligibility:

- (1) Applicants must be enrolled in the home institution as undergraduate or graduate degree students and will stay enrolled after PEACE program.
- (2) Applications must be 3rd or 4th year undergraduate students and Master or Doctoral students at the home institution.
- (3) Applicants must have a good academic record (**GPA of 2.3 point or more**)*1, *2
- (4) Applicants must have sufficient English proficiency to be able to comprehend classes, give presentations, and write reports*3

4. Application Procedure:

- (1) Submit complete application documents to the office in charge of the exchange program at home institution (see Required application documents)
- (2) The office in charge of the exchange program at home institution selects five excellent students
- (3) Submit application documents as PDF to Graduate school of Science HU (ri-kenkyu@office.hiroshima-u.ac.jp), original application documents should be submitted to Graduate school of science after students arrive to Japan.
- (4) Graduate school of science selects participants based on the application documents and recommend to the PEACE program committee at HU.

5. Tuitions, round trip airfare and scholarship

- (1) Tuition will be exempted for all participants.
- (2) Round trip airfare will be provided to all participants.
- (3) Only eligible applicants will be able to receive the scholarship, 80,000 JPY, provided by JASSO (Japan Student Services Organization).

*1 GPA score calculated using Table 1.

*2 Applicants who hold GPA values between 2.0 and 2.3 need to submit self-recommendation letter.

*3 Desirable criteria for English Proficiency:

TOEFL®-iBT: above 60, TOEIC: above 600, IELTS: above 5.0 or English language proficiency recommendation letter from your supervisor at home institution

GPA Calculation Methods

	Rating				
4 level rating (Pattern 1)	—	A	B	C	F
4 level rating (Pattern 2)	—	100~80	79~70	69~60	below 59
5 level rating (Pattern 3)	100~90	89~80	79~70	69~60	below 59
5 level rating (Pattern 4)	S	A	B	C	F
5 level rating (Pattern 5)	A	B	C	D	F
Grade Calculation Points	3	3	2	1	0

GPA Calculation: $(a \times 3) + (b \times 2) + (c \times 1) + (d \times 0) / \text{total number of credits}$

The number of credits graded as point 3: a

The number of credits graded as point 2: b

The number of credits graded as point 1: c

The number of credits graded as point 0: d

Contact:

Kiyo Mondo, Ph.D.

Graduate School of Science (Research · International Support Group),
Hiroshima University

1-3-1 Kagamiyama, Higashi-Hiroshima, 739-8526, Japan

Tel: Int.-81-82-424-2044

Email: ri-kenkyu@office.hiroshima-u.ac.jp

GSS HP: <https://www.hiroshima-u.ac.jp/en/sci>

PEACE Student Exchange Program homepage:

<http://peace-program.hiroshima-u.ac.jp/en/>

PEACE Student Exchange Program Facebook:

<https://www.facebook.com/PEACE.program.Hiroshima/>

PEACE Student Exchange Program

Graduate School of Science: Required application documents

*** Form (3), (11) and (12) should be typed.**

- (1) **PEACE Student Exchange Program: Application Materials Checklist**
- (2) **A Copy of your Passport ID Page**
- (3) **PEACE Student Exchange Program Application Form** (should be typed)
- (4) **Certificate of Health** (completed and verified by a certified physician)
- (5) **JASSO Student Exchange Support Program Application Form** (if applicable)
- (6) **Student Enrollment Verification** (issued by your home institution)
 - * You must be a regular student at your university while you are participating in the PEACE student exchange program and will stay enrolled after the PEACE program.
- (7) **Transcript/Academic Record**
 - * Transcripts that are not in English must be accompanied by certified, literal English translations. If the transcript does not contain information about grading, an explanation of the grading system must also be provided.
 - * If you are a second-year, or above, graduate student at your home institution, you can provide us with a transcript(s) of courses taken at the graduate school only. A transcript(s) of undergraduate course work is (are) not required.
- (8) **A Letter of Recommendation** (from your home institution).
- (9) **English Language Proficiency**

A copy of the score sheet from a standard English proficiency test such as TOEFL-iBT, TOEIC, or IELTS or English Language Proficiency recommendation letter from your supervisor at your home institution
- (10) **UCTS Study Plan for PEACE Program**
- (11) **Study Plan** only for Graduate School of Science (should be typed)
- (12) **Summary of thesis project at home institution** (Students who wish to conduct a research for their thesis during the exchange period at host institution)
- (13) **Photo** (4.5 cm x 3.5 cm, digital image_JPEG)

Note: First submit the scanned copies of your application materials electronically to the student exchange coordinator at your institution. Following the electronic submission process, please bring the original documents with you and submit to the student exchange coordinator of the host institution.

Contact:

PEACE Student Exchange Program Coordinator (Graduate School of Science)

1-3-1 Kagamiyama Higashi Hiroshima City, 739-8526 Japan

Tel: [+81-82-424-2044](tel:+81-82-424-2044); Email: ri-kenkyu@office.hiroshima-u.ac.jp

Required Application Documents

Submit to Graduate School of Science	Special Auditing Students * ¹ WITH JASSO scholarship	Special Auditing Students WITHOUT JASSO
(1) Application Materials Checklist	○	○
(2) PEACE Student Exchange Program Application Form	○	○
(3) A Copy of your Passport ID page	○	○
(4) JASSO Student Exchange Support Program Application form	○	/
(5) Certificate of Health	○	○
(6) Student Enrollment Verification	○	○
(7) Transcript/Academic Record	○	○
(8) A Letter of Recommendation	○	○
(9) English Language Proficiency Test Score	○	○
(10) UCTS Study Plan for PEACE Program * ²	○	○
(11) Study Plan (Graduate School of Science)	○	○
(12) Summary of thesis project * ³	○	○
(13) Photo (for Student ID card)	○	○

*

Document (11) and (12) are only for Graduate School of Science.

*¹ Special Auditing Students: Students who register courses and conduct research at Hiroshima University.

*² UCTS Study Plan for PEACE Program Students who plan to take courses at HU and wish to transfer those credits

*³ Summary of thesis project at your home institution: students who wish to conduct a research for their thesis during the exchange period

Faculty members who can accept PEACE Program students (2019)

As of February 2019

Department of Mathematics

Group	Academic Staff	Research Subjects
Algebra	SHIMADA, Ichiro (Professor) KIMURA, Shun-ichi (Professor) MATSUMOTO, Makoto (Professor) TAKAHASHI, Nobuyoshi (Assoc. Prof.)	Number Theory, Algebraic Geometry, Arithmetic Geometry, Motives, Singularities, Group Theory, Representation Theory, Commutative Algebra, Arithmetic Fundamental Group, Random Number Generation, Quasi-Monte Carlo Method, Coding Theory, Cryptography.
Geometry and Topology	SAKUMA, Makoto (Professor) KODA, Yuya (Assoc. Prof.) DOI, Hideo (Assoc. Prof.) OKUDA, Takayuki (Lecturer)	Differential Geometry, Topology, Manifolds, 3 and 4 Dimensional Mathematics, Knots, Hyperbolic Geometry, Mapping Class Groups, Quantum Topology, Homogeneous Spaces, Symmetric Spaces, Representation, Theory of Lie Groups, Singularities.
Mathematical Analysis	YOSHINO, Masafumi (Professor) KAWASHITA, Mishio (Professor) TAKIMOTO, Kazuhiro (Assoc. Prof.) HIRATA, Kentaro (Assoc. Prof.) KAMIMOTO, Shingo (Lecturer)	Dynamical Systems, Differential Equations, Differential Equations and Diophantine Phenomena, Nonlinear Analysis, Potential Theory, Complex Analysis, Scattering Theory. Algebraic Analysis, Asymptotic Analysis.
Probability Theory and Mathematical Statistics	INOUE, Akihiko (Professor) WAKAKI, Hirofumi (Professor) YANAGIHARA, Hirokazu (Professor) IWATA, Koichiro (Assoc. Prof.)	Probability Theory, Stochastic Processes, Financial and Insurance Mathematics, Random Fields, Theory for Multivariate Data Analysis and its Applications, Statistical Inference, Asymptotic Expansion for Statistical Distributions, Resampling Methods.
Geometric and Algebraic Analysis	AGAOKA, Yoshio (Professor) ABE, Makoto (Professor) MIZUMACHI, Tetsu (Professor) SHIBUYA, Kazuhiro (Assoc. Prof.)	Differential Geometry, Combinatorial Geometry, Complex Geometry, Several Complex Variables, Differential Equations

Department of Physical Science

Laboratory	Academic Staff	Research Subjects
Elementary Particle Theory	MOROZUMI, Takuya (Assoc. Prof.) ISHIKAWA, Ken-ichi (Assoc. Prof.)	Elementary particle physics. Physics of mesons and baryons. Dynamical symmetry breaking. Origin of mass and CP violation. Effective theory of QCD. Lattice QCD.
Astrophysics	KOJIMA, Yasufumi (Professor) YAMAMOTO, Kazuhiro (Assoc. Prof.)	Physics of neutron stars and black holes. Gravitational waves. Dark matter. Gravitational lens. Cluster of galaxy. Cosmic structure formation. Cosmic microwave background. Inflation cosmology.
Quark Physics	SHIGAKI, Kenta (Assoc. Prof.)	Experimental study of a new state of matter, quark-gluon-plasma, in high-energy nuclear collisions. Investigation of properties and space-time evolution of such quark matter, which could have existed in 10 micro-sec after the Big-Bang. R&D of new particle detectors.
High-Energy Astrophysics	FUKAZAWA, Yasushi (Professor) MIZUNO, Tsunefumi (Assoc. Prof)*	Study of high-energy astrophysical phenomena through cosmic X-rays and Gamma-rays observations. Astronomical objects of interest are neutron stars, black holes of various masses, supernova remnants, galaxies and clusters, and gamma-ray bursts. Group members participate actively in the Fermi gamma-ray space telescope, Suzaku X-ray satellite, KANATA telescope, next X-ray satellite Astro-H project, and so on. R & D of new radiation detectors is also an important research target.
Optical and Infrared Astronomy	KAWABATA, Koji (Assoc. Prof)* UEMURA, Makoto (Assoc. Prof)*	Observational Astronomy using the 1.5m telescope at Higashi-Hiroshima Observatory, especially in collaboration with High-Energy Astrophysics group. R&D for new astronomical instruments is also pursued.
Structural Physics	KUROIWA, Yoshihiro (Professor) MORIYOSHI, Chikako (Professor.)	Electron charge density study of ferroelectric and related materials by using synchrotron radiation. X-ray and neutron crystal structure analysis to study the phase-transition mechanism and relationship between crystal structure and physical properties.
Electronic Properties of Solids	NAKAJIMA, Nobuo (Assoc. Prof.)	Study of correlation between electronic states and physical properties in magnetic materials and/or dielectric materials by means of X-ray spectroscopy (XAS, MCD, XLD, PES, XES) and X-ray diffractometry using synchrotron radiation. Investigation of the physical properties under extreme conditions.
Synchrotron Radiation Physics of Solids	KIMURA, Akio (Professor)	Photoemission and inverse photoemission study of magnetic materials and semiconductors. Spin-resolved photoemission and inverse photoemission spectroscopies of magnetic thin films and surfaces. High-resolution photoemission and soft x-ray spectroscopy of strongly correlated materials. Study on structures of surfaces and adsorbates using STM and AFM.
Molecular Photoscience	SEKITANI, Tetsuji (Assoc. Prof.)	Photochemical and photophysical reactions of gaseous, surface, and condensed molecules in the soft x-ray region. Site-specific chemical reactions by core excitation of specific atoms in molecule. STM study on chemical reactions of surface ad molecules.
Synchrotron Radiation Materials Science	NAMATAME, Hirofumi (Professor)** SHIMADA, Kenya (Professor)** SATO, Hitoshi (Assoc. Prof.)** OKUDA, Taichi (Assoc. Prof)** SAWADA, Masahiro (Assoc. Prof)** MATSUO, Koichi (Assoc. Prof)**	Investigation of electronic and spin structures of materials by high-resolution photoemission spectroscopy, highly efficient spin- and angle-resolved photoemission spectroscopy, and soft X-ray magnetic circular dichroism using synchrotron radiation (SR) in the ultraviolet and soft X-ray region, study of biomolecule structures using vacuum-ultraviolet circular-dichroism spectroscopy, and the development of advanced SR instruments for materials science at Hiroshima Synchrotron Radiation Center (HiSOR).

* Staff of the Hiroshima Astrophysical Science Center ** Staff of the Hiroshima Synchrotron Radiation Center

Department of Chemistry

Laboratory	Academic Staff	Research Subjects
Structural Physical Chemistry	INOKUCHI, Yoshiya (Assoc. Prof.) TAKAHASHI, Osamu (Assoc. Prof.)	Studies on the structure and dynamics of molecular complexes and functional molecules by uses of nonlinear laser spectroscopy and ab initio molecular orbital calculations. Theoretical studies on the electronic structures and reactions of excited molecules.
Solid Material Chemistry	INOUE, Katsuya (Professor) NISHIHARA, Sadafumi (Assoc. Prof.)	Synthesis, crystal structure, magnetic, optical, and conducting properties for molecule-based materials, studied by SQUID, magnetic resonance, MCD, and X-ray diffraction.
Coordination Chemistry	MIZUTA, Tsutomu (Professor) KUME, Shoko (Assoc. Prof.)	Preparation, structures, and properties of transition metal complexes having phosphorus ligand(s) with novel functionality. Control of catalytic activity using External-stimuli responsive coordination compounds.
Analytical Chemistry	ISHIZAKA, Shoji (Professor)	Studies on the physical and chemical responses or phenomena of single particles levitated in air by means of a laser trapping technique.
Organic Stereochemistry	HAINO, Takeharu (Professor) SEKIYA, Ryo (Assoc. Prof.)	Study on the developments of supramolecular assembly and polymer generated from hetero- and homotopic monomers linked through multiple non-covalent forces, and their innovative functions.
Photochemistry of Advanced Materials	SAITOW, Ken-ichi (Professor) *	Advanced nanomaterials synthesis based on physical chemistry method. Optoelectrical properties of nanostructured material. Development of basic structure for next-generation photovoltaic and LED. Optical properties of condensed phase.
Physical Chemistry of Kinetics	YAMASAKI, Katsuyoshi (Professor) KOHGUCHI, Hiroshi (Assoc. Prof.)	Experiments based on the selective detection of a single quantum state of atoms and molecules by laser spectroscopy. Studies on the kinetics and dynamics of the chemical reactions and energy transfer processes in atomic and molecular collisions.
Quantum Chemistry	AIDA, Misako (Professor) OKADA, Kazumasa (Assoc. Prof.)	Chemical reactions in solution or specific recognition reactions in biological systems using quantum mechanical and molecular dynamics simulations. Experimental studies on the electronic states of molecules and the reactions induced by X-ray photon or electron impact.
Organic Main Group Chemistry	YAMAMOTO, Yohsuke (Professor) NAKAMOTO, Masaaki (Assoc. Prof.)	Studies on the synthesis and reaction mechanism of organic compounds of main group elements. Chemistry of hypervalent molecules.
Organic Reaction Chemistry	ABE, Manabu (Professor) HATANO, Sayaka (Lecturer)	Organic photochemistry, reactive intermediate chemistry, synthesis of biologically active compounds.
Radiation Reaction Chemistry	NAKASHIMA, Satoru (Professor) *	Chemistry related to radiation or studied by Mössbauer spectroscopy. Control of mixed-valence state and spin state by crystal construction. Study on environmental radioactivity and study for decontamination of radioactive cesium.

* Staff member of the Natural Science Center for Basic Research and Development

Department of Earth and Planetary Systems Science

Group	Academic Staff	Research Subjects
Earth and Planetary Material Science	Jun-ichi Ando (Professor) Ken-ichi Hoshino (Assoc. Prof.) Yasutaka Hayasaka (Assoc. Prof.) Kaushik Das (Assoc. Prof.)	Tectonics of East Asia, Continental evolution, Deformation microstructure, Water-rock interaction, Crystal chemistry
Earth and Planetary Chemistry	Tomoyuki Shibata (Professor) Hikaru Yabuta (Assoc. Prof.) Masaaki Miyahara (Assoc. Prof.)	Magma genesis, Astrobiology, Space exploration, Earth environmental change, Microbial mineralization, Planetary collision process
Earth and Planetary Physics	Naoki Suda (Professor) Toru Inoue (Professor) Ikuo Katayama (Professor) Tomoko Sato (Assoc. Prof.)	Fault mechanics, Earthquake, Internal structure of the Earth, Mineral physics, Material transport, Mantle convection

Program of Basic Biology

Laboratory	Academic Staff	Research Subjects
Developmental Biology	KIKUCHI, Yutaka (Professor)	Molecular mechanisms of regeneration in vertebrates. Studies on the chromosome topology in mammalian cells.
Cell Biology	CHIHARA, Takahiro (Professor) HAMAOKA, Kozue (Assoc. Prof.)	Molecular logic underlying neural development, adaptation and maintenance. Molecular mechanisms of cell division in animal cells.
Molecular and Cellular Physiology	UEKI, Tatsuya (Assoc. Prof.)	Molecular physiological and biochemical study on animal physiology, especially in adhesion, metastasis, oxygen, metal ions, and neural signals.
Plant Taxonomy and Ecology	YAMAGUCHI, Tomio (Professor) SHIMAMURA, Masaki (Assoc. Prof.)	Taxonomical and ecological research on non-vascular plants, including bryophytes, freshwater algae and lichens.
Plant Molecular Physiology	TAKAHASHI, Yohsuke (Professor)	Molecular mechanisms of plant growth and development. Molecular mechanisms of plant adaptation to environmental stimuli.
Plant Molecular Biology and Bioinformatics	SUZUKI, Katsunori (Professor) MORIGUCHI, Kazuki (Lecturer)	Molecular and evolutionary mechanism of trans-kingdom conjugation between bacteria and yeasts. Genome analysis of Agrobacterium including Ti and Ri plasmids.
Embryology (Amphibian Research Center)	SUZUKI, Atsushi (Assoc. Prof.) FURUNO, Nobuaki (Assoc. Prof.) TAKASE, Minoru (Assoc. Prof.)	Molecular mechanism of amphibian oocyte differentiation and maturation, early development, regeneration, metamorphosis, and reproductive organ differentiation and development.
Genome evolution and resource (Amphibian Research Center)	OGINO, Hajime (Professor)	Study on evolution and diversification of vertebrate genomes including amphibians. Study on genomic and epigenomic regulation of organ development. Study on genomic and epigenomic regulation of organ regeneration.
Evolutionary Biology and Biodiversity of Amphibians (Amphibian Research Center)	MIURA, Ikuo (Assoc. Prof.)	Studies on genome evolution, sex and reproduction, evolutionary traits, and natural history (taxonomy, biodiversity, and biogeography) in amphibians.
Island Biology (Miyajima Natural Botanical Garden)	TSUBOTA, Hiromi (Assoc. Prof.)	Island biology. Phytogeographical, taxonomical and ecological research on vascular and non-vascular plants by utilizing the excellent natural resources of World heritage listed Miyajima (Itsukushima) Island and nature conservation of the island.
Plant Chromosome and Gene Stock	KUSABA, Makoto (Professor)	Conservation of wild-plant genetic resources. Molecular genetic study of leaf senescence. Molecular evolution and cytogenetics of higher plants.
Marine Biological Laboratory	TAGAWA, Kunifumi (Assoc. Prof.)	Study of acorn worms (Eteopneusta, Hemichordata) and acoel flatworms (Acoelomorpha) to elucidate the origin and evolution of deuterostomes and bilateria by applying molecular developmental biology and comparative genomics.

Program of Mathematical and Life Sciences

Laboratory	Academic Staff	Research Subjects
Nonlinear Studies	SAKAMOTO, Kunimochi (Professor) OHNISHI, Isamu (Assoc. Prof.) TOGASHI, Yuichi (Assoc. Prof.)	Reaction-diffusion system, dynamical systems, nonlinear mathematical analysis. Mathematical Life Science, Biophysically Mathematical Modelling, Applied Dynamical System. Mathematical Biology. Computational studies on biomolecular machinery.
Phenomenal Mathematics	NISHIMORI, Hiraku (Professor) AWAZU, Akinori (Assoc. Prof.)	Nonequilibrium nonlinear phenomenology. Theoretical biophysics and complex systems.
Complex Systems	KOBAYASHI, Ryo (Professor) IIMA, Makoto (Assoc. Prof.) SEIRIN-LEE, Sungrim (Assoc. Prof.)	Mathematical Biology, Modeling Study of Dynamics and Control of the Animal's Motion, Fluid Mechanics. Mathematical modeling and analysis on pattern formation of cellular and developmental biology.
Molecular Biophysics	TATE, Shin-ichi (Professor) KATAYANAGI, Katsuo (Assoc. Prof.)	Biophysical studies of protein structure, dynamics and their relations to the biological function. Structural biology by NMR and X-ray crystallography of proteins.
Self-organization in Chemistry	NAKATA, Satoshi (Professor) FUJIWARA, Yoshihisa (Assoc. Prof.)	Spatio-temporally developed phenomena under nonequilibrium conditions (Self-motion and mode-switching, chemical oscillation, and artificial sensation). Magneto-Science (Magnetic field and magnetically simulated microgravity and hypergravity effects on phenomena in chemistry, physics, and biology and on advanced nano- and micro-materials).
Biological Chemistry	IZUMI, Shunsuke (Professor)	Biological Chemistry; Natural Product Chemistry; Biocatalytic Chemistry; Bioorganic Chemistry; Protein Chemistry.
Molecular Genetics	YAMAMOTO, Takashi (Professor) SAKAMOTO, Naoaki (Assoc. Prof.) SAKUMA, Tetsushi (Lecturer)	Development of genome editing technology. Elucidation of a cascade of transcription factors regulating temporal as well as spatial expression of genes in sea urchin embryo. Study on genes related to cell fate determination in sea urchin embryo.
Gene Chemistry	IDE, Hiroshi (Professor)	Molecular and cell biology of DNA repair and mutagenesis.