佐賀大学大学院農学研究科 アグリビジネス国際人材育成プログラム 修士課程(外国人留学生一在外) 日本政府(文部科学省)奨学金学生募集要項

Guide for the Application for the Japanese Government (Monbukagakusho) Scholarship of Post-graduate Program for Agribusiness Global Human-resources Development (PPAGHD)

(Master Course)

2025

Application Deadline: January 21,2025 Academic Year Start: October 1, 2025

Graduate School of Agriculture SAGA UNIVERSITY

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Guide for the Application for the Japanese Government (Monbukagakusho) Scholarship of

Post-graduate Program for Agribusiness Global Human-resources Development (PPAGHD)

The Post-graduate Program for Agribusiness Global human-resources Development (PPAGHD) in the Graduate School of Agriculture provides all lectures, seminars, and internships in English for both foreign and Japanese students. Students from overseas can learn and study completely in Japan without a hurdle of Japanese language. The PPAGHD is an educational course in the Graduate School of Agriculture, Saga University, that will start in October 2025, in order to bring up global researchers and/or engineers who will contribute to the agricultural science. This is a call for application to a two-year Master Course for the academic year of 2025, sponsored by the Scholarship Program of Monbukagakusho (The Ministry of Education, Culture, Sports, Science and Technology of the Japanese Government). Foreigners having the nationality in the country list (appendix) and arriving from foreign countries to attend this program can apply to this scholarship program.

Nowadays, education and research in agricultural science should be conducted from comprehensive and global viewpoints. Expertise on agriculture become to more important for produce food and keeping biological resources. The creation of agricultural expertise is indispensable for understanding and solving the problems posted by the impact of human activities on the global environment and on all living organisms, including humans. The PPAGHD has been established in the Graduate School of Agriculture in order to discuss/share global agricultural problems whole over the world. The scope and goal of this PPAGHD are to educate for students to acquire agricultural knowledge and enhance their ability of logical thinking, in the hope from comprehensive global viewpoints after they return to their home countries.

In the Master Course program of the PPAGHD, education and research guidance of the fields are given by the Department of Biological Resources Sciences in the Graduate School of Agriculture. Applicants should decide the research fields and choose prospective relevant supervisor(s) appearing on the List of Academic Staffs.

Students who complete the Master Course program of the PPAGHD are granted the Master of Agriculture. In this application, the month of entrance is October, and they can enter the PPAGHD course immediately after completing their Bachelor program in their country without learning of Japanese language.

QUALIFICATIONS

- 1. **Applicants:** Foreigners having the nationality in the list in appendix bellow and arriving from foreign countries to attend this program can apply.
- 2. **Grant history:** Applicants who had been granted with any kind of MEXT scholarship in past three years are required to have an appropriate experience in their study and/or educational activities in foreign countries for at least three years after the scholarship was completed.
- 3. **Age:** Applicants must be people who were born on or after April 2, 1990.
- 4. **Academic career:** Student's record of applicants should belong to a highest class in the University from which the applicant graduated. The following candidates may apply for admission:
 - a. Those who have received Bachelor's Degree from Japanese University.
 - b. Those who have received Bachelor's Degree after completing 16 years course of school education in foreign country, or will receive it as of September 30, 2025.
 - c. Those who have completed 16 years course of school education of foreign country in Japan through correspondence education of a foreign school, or will complete the course as of September 30, 2025.
 - d. Those who have completed 16 years course of school education of foreign country at educational institutions of the foreign country in Japan, which is designated by the Minister

- of Education, Culture, Sports, Science and Technology of the Japanese Government, or will complete the course as of September 30, 2025.
- e. Those who have completed 15 years course of school education in foreign country, and been admitted by the Graduate School of Saga University to obtain sufficient credits with excellent score.
- f. Those who have been designated by the Minister of Education, Culture, Sports, Science and Technology of the Japanese Government.
- g. Those who are 22 years old or more as of September 30, 2025, and are admitted by the Graduate School of Saga University as that their academic abilities are equivalent to or higher than Bachelor's Degree of Japanese Universities upon reviewing the submitted materials.
- 5. **Health:** Applicants should be in good health both mentally and physically.
- 6. Language proficiency: A good working level of English is required.
- 7. **Arrival in Japan:** Applicants should arrive in Japan by September 30, 2025, if admitted.

Remarks

- 1) Military personnel and civilian employees of the armed forces are not eligible.
- 2) Admission shall be canceled if the applicant fails to arrive in Japan between the dates mentioned above.
- 3) At our university, only one member of a married couple should apply. The scholarship can not be applied for when one member of a married couple has received the Japanese government scholarship.
- 4) Neither applicants for other universities in Japan for the Japanese government scholarship, nor applicants for embassy recommendation, nor the recipients of scholarships from their country are eligible for this program.
- 5) The scholarship shall be canceled if the applicant fails to receive the Bachelor's Degree by September 30, 2025.
- 6) If you are handicapped and hope the special care about the entrance examination or the study in Japan, please consult with the entrance examination office before the application.

SCHOLARSHIP BENEFITS

- 1. Monthly allowance: A monthly amount of 144,000 Yen (as of 2024) shall be paid from Monbukagakusho for two years from October 2025. This allowance may not be paid if the recipient is absent from school for over a month.
- 2. Allowance for transportation
 - a. Transportation to Japan: Monbukagakusho shall provide an economy class air ticket between the international airport nearest to the scholarship recipient's residence in the country of the scholarship recipient's nationality and New Tokyo (Narita) International Airport or Fukuoka International Airport. Monbukagakusho will appoint route and date of the flight. The travel fee in the recipient's home country, the airport fee, the airport tax, special tax for the transportation, the travel fee in Japan should be covered at recipient's own expense. (In principle, "the scholarship recipients' residence" is defined as the mailing address denoted on the application form.)
 - b. Transportation from Japan: According to the scholarship recipient's application, Monbukagakusho shall provide a set of economy class air tickets to the recipients who will leave for their home countries in the month of their completion of the program. The coverage of the tickets shall be from Narita International Airport or Fukuoka International Airport to the international airport nearest to the place of their residence in their home country. This privilege shall be applicable for the scholarship recipient.
- 3. School fees: All school fees such as entrance examination, registration, and tuition costs, shall be waived.

Remarks

- 1) Travel and accident insurance to/from Japan should be covered at recipient's own expense. The international airport departing to/from Japan must be the international airport in the country of the scholarship recipient's nationality.
- 2) The Monbukagakusho scholarship will be granted for 2 years to complete the Master course program of the PPAGHD.

SELECTION AND ADMISSION

- 1. Applicants who have excellent records will take an interview or an Internet interview by your desired Advisory Professor (Supervisor) after all-round judgment of submitted papers. The interview or an Internet interview certifies that applicant does not apply for another university and that applicant will enter Saga University certainly when applicant is selected as a candidate of the scholarship. The academic ability of applicants is also confirmed by the interview or an Internet interview.
- 2. Applicants shall be examined by the Screening Committee of the PPAGHD. Only those who have a solid academic background, research capability and commitment are selected. The selected scholarship candidates will be informed and asked to reply their acceptance of the selection immediately in the middle of February 2025. After receiving their confirmation letter, they will be recommended to Monbukagakusho for the award of a scholarship in the late of February to March. The final decision of Monbukagakusho will be informed to the candidates through Saga University in July 2025.
- 3. When the applicants accept their scholarship candidate, they should withdraw all other scholarship applications.
- 4. The total number of scholarship recipients is 3.

Remarks

- 1) Applicants selected by Monbukagakusho as grantees must enroll in the program. Refusal to enter the course after acceptance is not allowed.
- 2) Those who apply for Saga University are not allowed to apply for any other universities as the Monbukagakusho scholarship student.
- 3) Those who have applied for the Japanese government scholarship from Saga University and other university simultaneously, the Monbukagakusho will cancel their scholarship candidate for all universities, even if applicants are admitted as the Monbukagakusho scholarship student at Saga University.

ENROLLMENT

- 1. Date of enrollment is October 1, 2025.
- 2. Scholarship grantees shall be enrolled as regular graduate students of Saga University.

APPLICATION PROCEDURE

- 1. Applicants should prepare the following documents to be forwarded to the Entrance Examination Office, Saga University.
 - ① **Application Form** (Form A).
 - **2** Application Form for Japanese Government (MONBUKAGAKUSHO:MEXT) Scholarship (Form B). (This should be printed on both sides.)
 - ③ Field of Study and Research Plan (Form C). (This should be printed on both sides.)
 - ④ Official transcript of Bachelor's Degree or certification of Bachelor's Degree. If applicant is a student now, certificate that the applicant will be provided Bachelor's Degree before September 30, 2025.
 - (5) **Transcripts of Academic Record** issued by the university authorities and their English translation. (The criteria of academic assessment should be also shown.)

- © Certificate of a student's record of highest class in the University from which the applicant graduated. (GPA, ranking at the class, classification of ABC, or another corresponding numerical index)
- Tenglish summary of Bachelor Thesis or it's equivalent if available, not exceeding four sheets of A4 size paper typed in double space. When a Bachelor Thesis is not required by the University from which the applicant graduated, prepare a statement to that effect.
- **®** Certificate of Citizenship issued by the appropriate authorities.
- **9** Recommendation and Reference
 - a. A letter of **Recommendation** (Form D) from the head (Dean, in case of University) of the applicant's affiliated institution.
 - b. Letter(s) of **Reference** (Form E) from those who know the applicant's research/study capability addressed to the Dean of the Graduate School of Agriculture.
 - c. **Certificate for the relationship** with the Graduate School of Agriculture, Saga University (Optional, if any). Those who have attend SPACE program, short-term program (i.e., Sakura Science Program) or similar ones at Saga University, can be submit the related document or certificate. Additionally, if the applicants have a supervisor who has a relationship with Saga University professors, they can attach the supporting letter that indicates the relationship (free letter style).

The letters of recommendation and reference(s) should indicate the English proficiency of the applicant. The recommendation letter should refer to certification that the applicant will surely enter Saga University, if the applicant is selected as a Grantee of Monbukagakusho scholarship.

- **(III)** Certificate of English ability (for example, TOEFL, IELTS).
- ① Three Photographs (hatless portrait), 4.5 cm×3.5 cm in size, taken within six months of application date. Two copies should be attached to the application form. One extra copy should be enclosed therein, with the applicant's name and the nationality on the reverse side of the copies.
- 2. All documents should be sent by registered air mail, and must arrive at the Entrance Examination Office by **January 21, 2025**.

Remarks

- 1) The above documents should be type-written in English on A4 size paper.
- 2) Incomplete documents are not acceptable.
- 3) Applicants are advised to choose their desired Advisory Professor (Supervisor), and to indicate the supervisor's name on the application form (Form A).
- 4) None of the documents submitted is returned to the applicant in any case.

NOTES

- 1. The rights of a grantee of the scholarship shall be deprived under the following cases:
 - a) False statements on the documents.
 - b) Violation of the pledge.
 - c) Leaving and/or transferring from the Graduate school of Saga University.
 - d) Changing the Supervisor without approvement program director /international affairs of Saga University.
 - e) Violation of school regulations, and no satisfactory academic achievement.
- 2. Grantees are recommended to be well acquainted with the Japanese language, culture, customs, etc. A skill of the Japanese language is necessary in daily life.
- 3. Grantees are expected to complete their Master Course Program within two years.
- 4. Part of grantees who proceed to the Doctor Course of PPAGHD will be permitted the extension

in the periods of scholarship if the petition is accepted by the Monbukagakusho.

5. Applicants who are not selected as candidate of the scholarship will have the information of failure by the Dean of the Graduate School of Agriculture, Saga University in the middle of February2025. If the applicants desire to enter the PPAGHD of Saga University as the Private-Expense foreign students, they can apply again according to the application guidelines to be published at a late date, and they will receive the results of selection in July.

The Private-Expense foreign students must pay the following entrance examination fee, entrance fee and tuition fee.

Entrance examination fee: 30,000 yen Entrance fee: 282,000 yen (scheduled).

Tuition fee: 267,900 Yen for each semester (scheduled). [535,800 Yen per academic year

(scheduled).]

Amount of due might be slightly revised depending on the decision of the administration council. Payments must be done for each semester biannually within the beginning two months of the semester. For the following information on the tuition assistance, exemption subsidization, and scholarships is available at the Benefits section.

- 1. Exemption of tuition fee from complete to 50% may be granted depending on circumstances.
- 2. There are several scholarships for private-expense foreign students. Students can apply for these scholarships.
- 3. Housing: Students can apply to Saga University International House, or low-cost apartments supported by Saga prefecture and other organizations.

CORRESPONDENCE

The application form of the PPAGHD should be sent by air mail to the address shown below. Note that the application forms must not be submitted in any kinds of electronic form. Forms sent by facsimile and attached files on e-mail are not accepted in any occasion.

Entrance Examination Office Saga University 1 Honjo-machi Saga 840-8502, Japan

Fax: (+81)-952-28-8944

E-mail: contact@mail.admin.saga-u.ac.jp

対象国リスト

Applicable countries list

アフリカ Africa
アルジェリア Algeria
アンゴラ Angola
ウガンダ Uganda
エスワティニ Eswatini
エジプト Egypt
エチオピア Ethiopia
エリトリア Eritrea
ガーナ Ghana
カーボベルデ Cabo Verde
ガボン Gabon
カメルーン Cameroon
ガンビア Gambia
ギニア Guinea
ギニアビサウ Guinea-Bissau
ケニア Kenya
コートジボワール Côte d'Ivoire
コモロ Comoros
コンゴ共和国 Republic of Congo
コンゴ民主共和国 Democratic Republic of the Congo
サントメ・プリンシペ Sao Tome and Principe
ザンビア Zambia
シエラレオネ Sierra Leone
ジブチ Djibouti
ジンパブエ Zimbabwe
スーダン Sudan
セーシェル Seychelles
赤道ギニア Equatorial Guinea
•
ソマリア Somalia タンザニア Tanzania
チャド Chad
中央アフリカ Central African Republic チュニジア Tunisia
トーゴ Togo
ナイジェリア Nigeria ナミビア Namibia
ニジェール Niger ブルキナファソ Burkina Faso
ブルキナファソ Burkina Faso ブルンジ Burundi
ベナン Benin
ボツワナ Botswana
マダガスカル Madagascar マラウイ Malawi
マリ Mali
南アフリカ Republic of South Africa
南スーダン South Sudan
モザンビーク Mozambique
モーリシャス Mauritius
モーリタニア Mauritania
モロッコ Morocco
リピア Libya
リベリア Liberia
ルワンダ Rwanda
レソト Lesotho

南西アジア Southwest Asia
インド India
スリランカ Sri Lanka
ネパール Nepal
パキスタン Pakistan
バングラデシュ Bangladesh
ブータン Bhutan
モルディブ Maldives

東南アジア Southeast Asia
インドネシア Indonesia
カンボジア Cambodia
シンガポール Singapore
タイ Thailand
フィリピン Philippines
ブルネイ Brunei
ベトナム Viet Nam
マレーシア Malaysia
ミャンマー Myanmar
ラオス Lao
9.377
中南米 Central and South America
アルゼンチン Argentine
ウルグアイ Uruguay
エクアドル Ecuador
ガイアナ Guyana
コロンビア Colombia
スリナム Suriname
テリ Chile
パラグアイ Paraguay ブラジル Brazil
ブランル Brazii ベネズエラ Venezuela
ペルー Peru
ベルー Peru ボリビア Bolivia
N.A.C.) DOIIAIS
中東 Middle East
アフガニスタン Afghanistan
アラブ首長国連邦 United Arab Emirates
イエメン Yemen
イスラエル Israel
イラク Iraq
イラン Iran
オマーン Oman
カタール Qatar
クウェート Kuwait
サウジアラビア Saudi Arabia
シリア Syria
トルコ Turkey
バーレーン Bahrain
ヨルダン Jordan
レバノン Lebanon
パレスチナ Palestine
. •
大洋州 Oceania
オーストラリア Australia
キリバス Kiribati
クック諸島 Cook Islands
サモア Samoa
ソロモン諸島 Solomon Islands
ツバル Tuvalu
トンガ Tonga
ナウル Nauru
ニウエ Niue
ニュージーランド New Zealand
バヌアツ Vanuatu
パプアニューギニア Papua New Guinea
パラオ Palau
フィジー Fiji
マーシャル Marshall
ミクロネシア Micronesia
TO IT IN THIS INTO IN

欧州 Europe
アイスランド Iceland
アイルランド Ireland
アゼルバイジャン Azerbaijan
アルバニア Albania
アルメニア Armenia
アンドラ Andra
イタリア Italy
ウクライナ Ukraine
ウズベキスタン Uzbekistan
英国 United Kingdom
エストニア Estonia
オーストリア Austria
オランダ Netherlands
カザフスタン Kazakhstan
北マケドニア North Macedonia
キプロス Cyprus
ギリシャ Greece
キルギス Kyrgyz Republic
クロアチア Croatia
コソポ Kosovo
サンマリノ San Marino
ジョージア Georgia
スイス Switzerland
スウェーデン Sweden
スペイン Spain
スロバキア Slovakia
スロベニア Slovenia
セルビア Serbia
タジキスタン Tajikistan
チェコ Czech Republic
デンマーク Denmark
ドイツ Germany
トルクメニスタン Turkmenistan
ノルウェー Norway
バチカン Vatican
ハンガリー Hungary
フィンランド Finland
フランス France
ブルガリア Bulgaria
ベルギー Belgium ポーランド Poland
ボスニア・ヘルツェゴビナ Bosnia and Herzegovina
ポスープ・ベルフェコピア Boshia and Herzegovina ポルトガル Portugal
マルタ Malta
モナコ Monaco モルドバ Moldova
モンテネグロ Montenegro
ラトビア Latvia
リヒテンシュタイン Liechtenstein
リトアニア Lithuania
ルーマニア Romania
ルーマー) Romania ルクセンブルク Luxembourg
IN CONTROLLE
北米 North America
アメリカ United States
カナダ Canada
777 Guillana

ACADEMIC STAFFS ATTENDING PPAGHD, AND THEIR MAJOR FIELDS AND RESEARCH INTERESTS

Agriculture [MASTER COURSE]

Biological Science Course	
Genetics and Plant Breeding····· Watanabe,	S.
1. Molecular breeding in rice and soybean.	
2. Development and utilization of breeding methods based on gene manipulation.	
3. Improvement of soybean fatty acid composition by induced mutation.	
Crop Science Suzuki, A	4.
1. Mechanism of root nodule symbiosis and its utilization for leguminous crops production	on
2. Mechanism of arbuscular mycorrhizal symbiosis and its utilization for crops production	n.
Vegetable and Ornamental Horticulture······ Isshiki, S. and Ogura-Tsujita, Y	Y.
1. Genetics and systematics of eggplant and its related Solanum species.	
2. Cell, tissue and organ culture of vegetables and ornamentals.	
3. Breeding of eggplant.	
4. Biology of orchid mycorrhizal symbiosis and its application for horticultural uses.	
5. in vitro culture of orchids and symbionts.	
6. Conservation of wild orchids.	
Improvement of Tropical Crops ······Zheng, S.H. and Fujita, l	D.
1. Physiology and Eco-morphology of tropical leguminous crops.	
2. Sustainable cropping system which adapted to tropical agriculture.	
3. Improvement of yield-related traits in rice through genetic and breeding studies.	
4. Genetic and breeding studies for resistance to planthopper and leafhopper in rice.	
5. Genetic improvement for days to heading in indica rice.	
Plant Nutrition ····· Nishida,	S.
1. Molecular mechanism of plant adaptation to variable nutrient availability.	
2. Biotechnology to improve plant tolerance to low nutrient availability and mineral stres	s.
3. Metal/metalloid accumulation in plants.	
Animal Reproduction ······Yamanaka, I	K.
1. Efficient production of offspring from genetically superior individuals by reproductive	;
technologies.	
2. Application of reproductive technology to fertility treatment.	
3. Recent problems in animal reproduction.	
Controlled Environment Horticulture Goto, 3	F.
1. Indoor production system.	
2. Energy saving technology in greenhouses.	

3. Breeding of vegetables suitable for plant factories.
4. Environmental optimization to adapt new crops to plant factories.
Functional Plant Resources ······ Matsumoto, Y.
1. Breeding and cultivation of functional and medicinal plants.
2. Storage and processing techniques of horticultural crops.
Integrated Field Science ···································
1. Production methods for sustainable agriculture.
Fruit Science Fukuda, S.
1. Molecular breeding in loquat and wild onion.
2. Genetics and genomics of Rosaceae.
Animal Science ····· Ebara, F.
1. Animal behavior and management.
Plant Mycology ····· Kusaba, M.
1. Classification and identification of plant pathogens.
2. Genetics of pathogenicity of plant pathogens.
3. Genetic diversity in the fungal population.
Nematology·····Yoshiga, T.
1. Biological and physiological characteristics of plant parasitic nematodes.
2. Growth regulation and pathogenicity of entomopathogenic nematodes.
3. Species diversity and ecological significance of brackish water nematodes.
Systems Ecology Tokuda, M. and Elsayed, A. K.
1. Insect-plant interactions.
2. Mechanism and adaptive significance of host manipulation by insects.
3. Evolutionary ecology and biosystematics of gall-inducing insects.
4. Insect pest management.
Fruit Tree Science Kotoda, N.
1. Genomics, physiology, and chemistry in fruit crops (apple, citrus, grape, kiwi fruit, olive, papaya, passion fruit, and peach etc.).
2. Citrus germplasm (cultivated/wild species) and DNA maker development.
3. The molecular mechanism of flowering and the role of gibberellins in plants.
4. Postharvest physiology in fruit crops.
Food Resource and Environmental Science Course
Agricultural and Environmental Geotechnics······Kondo, F. and Miyamoto, H.
1. Geotechnical research on maintenance and management of agricultural creek slopes in Saga Plain.
2. Soil management and conservation for sustainable crop production.
Rural Environment····· Haraguchi, T.

	1. Conservation of the water environment in agricultural field.
	2. Water utilization for agriculture.
Environ	nment of Shallow Sea and Tidal Flat······ Koriyama, M
	1. Conservation of tidal flat environment.
	2. Environmental monitoring of shallow sea area.
Irrigation	on Science ·······Yuge, K
	1. Quantification of water consumption in agricultural field.
	2. Multi-functionality in agriculture.
	3 Sustainable land use planning in Japanese rural area.
Environ	mental Soil Science ····· Tokumoto, I
	1. Transport of water, salts, ions and heat in unsaturated soil.
	2. Measurement of soil hydraulic properties and salt movement.
Agricul	tural Environmental Chemistry ······ Ueno, D
	1. Instrumental analytical chemistry to evaluate agricultural environment.
	2. Identification of odor chemicals (stinks and flavors) from field and products.
	3. Development of pest control system using odor chemicals.
Water I	Environmental conservation in Rural Areas ······· Anan, M
	1. Evaluation of agricultural water management in paddy field.
	2. Modeling of water flow and quality in rural area.
	3. Quantification of flood mitigation function in agricultural field.
Agricul	tural Machinery and Information Technology ······Inaba, S
	1. Running resistance of agricultural rubber crawler.
	2. Vibration analysis for agricultural vehicles.
	3. Database for agricultural production.
	4. Management of glassy ratio of rye with image processing technology.
Agricul	tural Production Engineering······Tanaka,M
	1. Environmental control for hydroponic culture of vegetables.
	2. Nondestructive quality evaluation of agricultural products.
Food Re	esource Research and Informatics ······ Kitagaki, H
	1. The effect of food components on intestinal microbes
	2. The effect of cosmetics on skin microbes
	3. Functionalities of cosmetics
	4. Application of informatics to food and cosmetic research
Bioreso	urce Science of Microalgae ······Demura, M
	1. Survey of microalgal diversity in Saga city.
	2. Development of culturing technique and utilization of microalgae.
Environ	nmental Oceanography ·······Hayami, Y
	1. Oceanography of coastal ocean.

3. Study on the conservation and regeneration of marine fishery resources. Applied Biochemistry and Food Science Course Applied Microbiology Kobayashi, G. and Goto, M. 1. Development of acetone-butanol-ethanol fermentation from biomass. 2. Microflora analysis by PCR-DGGE. 3. Isolation and characterization of useful bacteria and fungi. 4. Molecular breeding of fungi for production of organic acids, enzymes. Molecular Biological Science ······ Horitani, M. 1. Molecular mechanism of cold adapted enzymes and protein engineering. 2. Functional analysis of new enzymes from plants. 3. Advanced magnetic resonance and X-ray crystallography. 4. Structural and functional studies on metallo-enzymes. Functional Polymer Chemistry Soh, N. 1. Colorimetric and fluorescence analysis for bioscience 2. Biohybrid materials for bioanalysis and bioengineering Bioresource Science and Technology······Noma, S. 1. Extraction of food components using pressurized carbon dioxide. 2. Preparation of seasoning under pressurized carbon dioxide. 3. Pasteurization of microorganisms in food. Bioresource Chemistry ······ Hama, Y. and Mitsutake, S. 1. Structure and function of mucus glycoproteins and algal polysaccharides. 2. Isolation and characterization of novel glycolipids from marine animals. 3. Synthesis, metabolism and cellular signaling of membrane lipid in health and disease. 4. Development of Functional food materials. Nutrition Biochemistry ····· Nagao. K. 1. Control of lipid and lipoprotein metabolism by food ingredients and drugs. 2. Nutrition and physiology of polyunsaturated fatty acids. 3. Enzymatic and genetic regulation of glycerolipid metabolism. 4. Lipid metabolism and cytokine regulation in hepatic diseases. Applied Phycology Kimura, K. and Yoshida, K. 1. Macroalgal breeding and cutting-edge macroalgal cultivation. 2. Macroalgal nutritious and bioactive molecules. 3. Bloom dynamics of coastal phytoplankton. 4. Molecular physiology of algal virus infections.

2. Research of the environmental dynamics in estuaries and coastal seas.

5. Macro- and micro-algal photosynthesis.

6. Photosynthetic physiology of polar phytoplankton.

Aquatic Life Science Orita, R.
1. Genomics and metabolomics of marine bivalves.
2. Physiological ecology of marine invertebrates.
3. Fisheries science of marine invertebrates.
Food Function Development ····· Inoue, N.
1. Evaluation of plant-derived functional ingredients.
2. Prevention and improvement of lifestyle-related diseases by functional lipids.
Biochemistry Tsujita, T.
1. Elucidation of the molecular mechanism for oxidative, hypoxia, proteostasis stress using
genomic modified vertebrate and/or cell lines.
Discovering the bioactive compounds to protect lifestyle diseases from chemical library or natural plants.
Genomics ······Nagano, Y.
1. Genomics of food and medicinal plants
2. Genomics of other organisms
Chemistry of Natural Resources ······ Kawaguchi, S.
1. Synthesis and evaluation of cosmetic materials using organic molecules derived from
agricultural product and biomass.
2. Synthesis and evaluation of bioactive molecules.
3. Synthesis of organophosphorus compounds using unused phosphorus.
4. Synthetic use of iodine resources
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2. Elucidation of mode of action of bioactive molecules.
3. Development of molecular tools.
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