

LIST OF ACADEMIC STAFF AND RESEARCH FIELDS OF AAP PROGRAM  
IN GRADUATE SCHOOL OF AGRICULTURE, KAGAWA UNIVERSITY

Food Production

**Prof. TOYOTA Masanori**  
toyota@ag.kagawa-u.ac.jp

Ecophysiology on yield determination of  
field crops

**Assoc. Prof. MATSUMOTO Yoshiki**  
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Development of functional animal  
production sciences

**Assoc. Prof. MUTO Yukio**  
muto@ag.kagawa-u.ac.jp

Agricultural Policy; Agricultural  
Marketing; Environmental and Resource  
Economics

**Assoc. Prof. MOROKUMA Masahiro**  
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Organic cultivation of paddy rice

Horticultural Science

**Prof. OKUDA Nobuyuki**  
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Development regulation of vegetable crops

**Prof. TAKAMURA Takejiro**  
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Genetic improvement and environmental  
control of pigmentation and coloration in  
horticultural plants

**Prof. BEPPU Kenji**  
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Reproductive physiology of fruit trees

**Prof. MOCHIOKA Ryosuke**  
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Horticultural utilization of native resources  
in pomology

**Prof. YANAGI Tomohiro**  
yanagi@ag.kagawa-u.ac.jp

Effect of light quality on plant growth and  
morphogenesis

**Assoc. Prof. KOSUGI Yusuke**  
ykosugi@ag.kagawa-u.ac.jp

Physiological and molecular aspects of  
postharvest changes in ornamentals and  
vegetables

Environmental and Ecological Sciences

**Prof. ICHIMI Kazuhiko**

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Chemical and biological processes in coastal ecosystems

**Prof. ITO Fuminori**

ito@ag.kagawa-u.ac.jp

Ecology and behavior of ants

**Prof. TADA Kuninao**

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Standing stock and productivity of phytoplankton in coastal sea, and the behavior of biophilic element

**Prof. YAMADA Yoshihiro**

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Biogeochemical studies on the material cycling in the aquatic ecosystem

**Assoc. Prof. KOBAYASHI Tsuyoshi**

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Terrestrial plant ecology/Plant Ecology

**Assoc. Prof. TOYOTA Ayu**

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Soil fauna effects on forest ecosystems

**Assoc. Prof. YAMAGUCHI Hitomi**

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Material cycle of biophilic elements and dynamics of microalgae

Biological Molecular Chemistry

**Prof. KATO Hisashi**

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Allelopathy and plant biochemistry

**Prof. SATO Masashi**

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Biologically active natural products and their mechanisms of action

**Prof. FUKADA Kazuhiro**

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Physicochemical properties and industrial applications of various types of colloidal systems

**Assoc. Prof. SUZUKI Toshisada**

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Organic chemistry, biosynthesis, and bioactivity of wood components, and woody biomass utilization

**Assoc. Prof. YANAGITA Ryo**

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Bioorganic Chemistry

**Assist. Prof. KONG Lingbing**

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Rare sugar organic chemistry and chemical biology

Plant Science

**Prof. AKIMITSU Kazuya**  
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**Prof. NOMURA Mika**  
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**Assoc. Prof. SUGITA-KONISHI Saeko**  
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**Assist. Prof. MOCHIZUKI Susumu**  
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Molecular elucidation on mechanisms of pathogenicity and plant defense systems

Biotic and abiotic stress signal transduction in plants

Plant cellular and developmental physiology in vitro

Biological nitrogen fixation in legume plant

Signal transduction on plant-microbe interaction

Molecular genetics and breeding in rice

Genetic analysis of (rare) sugar- and plant-microbe interaction-related genes

Life Science and Biotechnology

**Prof. SAKURABA Haruhiko**  
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**Prof. TABUCHI Mitsuaki**  
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**Prof. WATANABE Akira**  
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**Assoc. Prof. SUEYOSHI Noriyuki**  
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**Assoc. Prof. SUGIYAMA Yasunori**  
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**Assoc. Prof. TANAKA Naotaka**  
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**Assist. Prof. KATO Shiro**  
s-kato@ag.kagawa-u.ac.jp

Molecular biology and biochemistry of extremophiles

Applied Molecular and Cellular Biology/  
Analysis of lipid metabolism and pathogen effector function using yeast system

Molecular biology and biochemistry of mushrooms

Signal transduction mediated by protein phosphorylation and dephosphorylation

Animal cell biology/Molecular elucidation on mechanisms of signal transduction for disease and biological phenomena

Functional analysis of the Golgi apparatus and its application to protein production

Biochemical analysis of enzymes involved in rare sugar or rare amino acid metabolism



Food Science

**Prof. OGAWA Masahiro**

ogawa@ag.kagawa-u.ac.jp

Biochemical research of food proteins

**Prof. KAWAMURA Osamu**

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Development and application of immunological methods for mycotoxins, and food contamination and human exposure of mycotoxins

**Prof. TAKATA Goro**

goro@ag.kagawa-u.ac.jp

Molecular biology of sugar related enzyme genes. Production of rare sugars using microbial and enzymatic reactions

**Prof. TAMURA Hirotoshi**

tamura@ag.kagawa-u.ac.jp

Chemistry and molecular nutrition of functional foods including coloring materials and flavor substances

**Assoc. Prof. MORIMOTO Kenji**

morimoto@ag.kagawa-u.ac.jp

Applied microbiology and enzymology for production of rare sugars. Production of rare sugars using bioreactor system

**Assoc. Prof. YOSHIHARA Akihide**

yoshihara@ag.kagawa-u.ac.jp

Production of rare sugars by microbial and enzymatic reaction

**Assoc. Prof. YONEKURA Lina**

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Bioavailability of bioactive compounds; table olive processing

LIST OF ACADEMIC STAFF AND RESEARCH FIELDS OF AAP PROGRAM  
IN GRADUATE SCHOOL OF AGRICULTURE, EHIME UNIVERSITY

Crop Science

**Prof. ARAKI, Takuya**

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Studies on environmental effects of  
photosynthetic function, mass transport,  
matter production and yield of crops.

Pomology

**Prof. YAMADA, Hisashi**

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**Assoc. Prof. HABU, Tsuyoshi**

habu.tsuyoshi.mb@ehime-u.ac.jp

Ecological and Physiological Study of Fruit  
Trees

Vegetable Horticulture

**Prof. KATAOKA, Keiko**

kataoka.keiko.mf@ehime-u.ac.jp

Developmental physiology  
for improvement of vegetable crop production

Animal Science

**Assoc. Prof. TACHIBANA, Tetsuya**

tachibana.tetsuya.my@ehime-u.ac.jp

Studies on the feeding regulatory  
mechanism based on the animal nutrition,  
animal behavior for efficient animal  
production.

Plant Pathology

**Assoc. Prof. YAENO, Takashi**

yaeno.takashi.rv@ehime-u.ac.jp

Plant-Pathogen interactions  
Molecular Biology and Plant immunity

Entomology

**Prof. KONISHI, Kazuhiko**

konishi.kazuhiko.eb@ehime-u.ac.jp

**Assoc. Prof. YOSHITOMI, Hiroyuki**

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Systematics of hymenopterous parasitoids

Systematics of insects, conservation of  
biodiversity

Plant Molecular Biology and Virology

**Prof. KOBAYASHI, Kappei**

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**Assoc. Prof. KAYA, Hidetaka**

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Molecular biology of plant immunity, plant  
biotechnology

Plant Molecular Biology, Plant  
Biotechnology

Soil Science and Plant Nutrition

**Prof. UENO, Hideto**

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**Assoc. Prof. TOMA, Yo**

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Studies on Soil Science and Soil  
Management Technology for the  
Sustainable Agriculture with Local  
Biological and Ecological Resources

Information Systems for Plant Factory  
**Prof. HATOU, Kenji**  
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Agricultural Mechanical System Engineering  
**Assoc. Prof. UEKA, Yuko**  
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Regional Resource Management  
**Prof. MATSUOKA, Atsushi**  
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Agricultural Economics and Farm Management  
**Prof. HU, Bai**  
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Fisheries Management and Business  
**Assoc. Prof. TAKENOUCHI, Naruhito**  
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Agribusiness  
**Prof. ITABASHI, Mamoru**  
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Agricultural Policy  
**Assoc. Prof. TSUBAKI, Shinichi**  
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Aquatic Environmental Science  
**Prof. MATSUBARA, Takahiro**  
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Fisheries Social Science  
**Prof. WAKABAYASHI, Yoshikazu**  
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Measurement and diagnosis are studied using image processing and expert systems in respect of the growth of the plant in plant factory and greenhouse. And, network utilization of this information is also studied.

Research and development of super labor-saving technology that supports agriculture in the future using engineering technologies such as machines, robots and programming

Economical studies on management and preservation of agricultural land

Agricultural economics & farm management, sustainable/organic agriculture and agribusiness.

Studies of sustainable development in the marine products industry and coastal zone by mainly viewpoints of economics, management and marketing theories.

Study on the role and function of agricultural cooperatives in regional agriculture.

Studies on agricultural structure policy for land-extensive farming on rice farming

Investigation on development of earth-friendly and sustainable aquaculture systems including physiological, molecular biological and ecological studies

Studies of many issues to occur in the marine products industry and a fishery area by general viewpoints of sociology and cultural anthropology.



Synthesis of useful organic compounds using natural resource.

Synthesis of bioactive compounds and analysis of their structure-activity relationship.

Studies on nutritional and physiological effects of food components, especially non-nutrient

Investigation of bio-functional substances by using animal cell technology and molecular biological techniques for human health.  
Biochemical and cell biological studies on bioactive substances that have practical implications for improving human health.

Molecular biology of membrane proteins

Study on the association between dietary habits and human health by nutritional epidemiology.

Molecular population genetics and evolutionary genetics of forest trees and the related organisms.

Studies on plant species diversity and coexistence in terms of biological processes and stoichiometry.

Various enhancements of wood properties and system development of forest resources for sustainable use.

**Bioorganic Chemistry**  
**Prof. YAMAUCHI, Satoshi**  
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**Bioorganic Chemistry**  
**Assoc. Prof. NISHIWAKI, Hisashi**  
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**Nutritional Science**  
**Prof. KISHIDA, Taro**  
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**Animal Cell Technology**  
**Prof. SUGAHARA, Takuya**  
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**Animal Cell Technology**  
**Assoc. Prof. NISHI, Kosuke**  
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**Molecular Physiology and Genetics**  
**Assoc. Prof. AKIYAMA, Koichi**  
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**Community Health and Nutrition**  
**Assoc. Prof. MARUYAMA, Koutatsu**  
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**Forest Genetics**  
**Assoc. Prof. KAMIYA, Koichi**  
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**Forest Resources Biology**  
**Assoc. Prof. SHIMAMURA, Tetsuya**  
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**Wood Science and Technology**  
**Prof. SUGIMORI, Masatoshi**  
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Wood Science and Technology

**Assoc. Prof. SUGIMOTO, Hiroyuki**

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Various enhancements of wood properties and system development of forest resources for sustainable use.

Forest Resources Planning

**Assoc. Prof. TSUZUKI, Hayato**

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Measurement, monitoring and planning of forest resources and functions.

Hydrometeorology for Environmental Science

**Prof. OUE, Hiroki**

oue.hiroki.mh@ehime-u.ac.jp

Turbulent transfer within and above a vegetation canopy, Impacts of elevated CO<sub>2</sub> (FACE) or global warming on stomatal response, transpiration and photosynthesis.

Rural Resources Management for Environmental Preservation

**Prof. HARUTA, Shinsuke**

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Researches on wastewater treatment and reuse for agricultural land and phosphorous recovery from wastes.

Ecosystem Conservation

**Prof. TAKEUCHI, Ichiro**

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Characteristics of coastal shallow water ecosystem; effects of anthropogenic chemicals to marine organisms; ecological conservation of shallow water ecosystem.

Ecosystem Conservation

**Assoc. Prof. ISHIBASHI, Hiroshi**

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Ecotoxicological effects and risk assessment of environmental pollutants including endocrine-disrupting chemicals in a variety of wild and model animals.

Fish Conservation

**Prof. TAKAGI, Motohiro**

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Conservation genetic resources of Fish.

Aquatic and Soil Environmental Science

**Prof. MATSUE, Naoto**

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Decontamination of water and soils; Surface and structural chemistry of clay minerals and zeolites.

Environmental Analytical Chemistry

**Prof. TAKAHASHI, Shin**

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Environmental chemistry and ecotoxicology on persistent toxic substances and waste treatment and material cycle sciences



Environmental Analytical Chemistry  
**Assoc. Prof. MIZUKAWA, Hazuki**  
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Environmental chemical analysis and toxicology on persistent pollutants. Species difference of metabolic capacities and toxicological risks for human, wildlife and pet animals.

Fish Reproductive Physiology  
**Prof. MIURA, Takeshi**  
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Molecular mechanisms of fish spermatogenesis and oogenesis and artificial manipulation of fish reproduction.

LIST OF ACADEMIC STAFF AND RESEARCH FIELDS OF AAP PROGRAM  
IN GRADUATE SCHOOL OF INTEGRATED ARTS AND SCIENCES (AGRICULTURE  
AND MARINE SCIENCES), KOCHI UNIVERSITY

Subtropical Agriculture

**Assoc. Prof. MIYAZAKI Akira**  
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Crop science

**Prof. OGATA Tsuneo**  
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Tropical fruit science

**Assoc. Prof. ITO Katsura**  
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Ecology of spider mites and insects

**Assoc. Prof. SUZUKI Noriyuki**  
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Insect ecology and evolution

Subtropical Horticulture

**Prof. SHIMASAKI Kazuhiko**  
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Tropical ornamental plant science

**Assoc. Prof. NISHIMURA Yasuyo**  
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Tropical vegetable crop science

Biomechanical Systems

**Prof. KAWANO Toshio**  
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Food production process engineering

**Assoc. Prof. MORI Makito**  
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Applied meteorology

Forest Resources Science

**Assoc. Prof. ICHIE Tomoaki**  
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Forest tree ecophysiology

**Assoc. Prof. SUZUKI Yasushi**  
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Forest engineering

Forest Products Science

**Assoc. Prof. ICHIURA Hideaki**  
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Forest Product Science

Aquatic Bioscience

**Prof. ADACHI Masao**  
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Marine environmental science

**Prof. SEKI Shingo**  
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Fish genetics and breeding science

**Assoc. Prof. NAKAMURA Yohei**  
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Marine ecology

**Prof. NAGASAKI Keizo**  
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Aquatic virology, Environmental virology

**Prof. IKEJIMA Kou**  
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Coastal ecology

**Assoc. Prof. YAMAGUCHI Haruo**  
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Aquatic Microbial Ecophysiology

Aquatic Chemistry

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Fish physiology and endocrinology

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Food science and nutrition

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Fish physiology and biochemistry

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Biotechnology for marine animals

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Molecular Pharmacology

Land Environmental Engineering

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Environmental facility engineering

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Geographic Information Science

Maritime Environmental Engineering

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Water environmental engineering

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Environmental water purification  
engineering

Agro-Environmental Chemistry

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Soil environmental science

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Soil ecology

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Plant nutrition



Applied Biochemistry

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Environmental Microbiology

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Genetic Resources Science

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**Assoc. Prof. MATSUKAWA Kazutsugu**  
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Rural Studies/ Agricultural Economics

**Assoc. Prof. MASUDA Kazuya**  
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Tropical bioengineering

Advanced chemical ecology

Microbiology of extreme environments

Microbial molecular genetics

Biointeraction chemistry

Food Science

Food Functional Chemistry

Microbiology

Animal reproductive technology

Plant bacterial pathology

Plant pathology

Reproductive biology

Environmental anthropology