

Research Areas

Graduate School of Health and Environmental Sciences

Master's Program for Health and Environmental Sciences

Division of Natural Sciences and Environment

Name	Research theme	Research topics
Ikeda, Norihiro	Physical chemistry	<ul style="list-style-type: none"> • Thermodynamic studies of the adsorption of surfactant at the water/air and water/oil interfaces • Micelle formation of surfactant in aqueous solution • Miscibility of two kinds of surfactants in the adsorbed film and micelle
Sato, Kazuki	Environmental organic chemistry	<ul style="list-style-type: none"> • Structure-function relationships of peptide toxins
Fujioka, Yuichi	Energy and environmental science	<ul style="list-style-type: none"> • Advanced technology for utilization of wood biomass • Low energy solvent for CO₂ capture • Coal gasification and desulfurization • Countermeasures against global warming
Yoshimura, Toshio	Eco-friendly polymer chemistry	<ul style="list-style-type: none"> • Synthesis and characterization of eco-friendly polymers • Functionalization of naturally occurring polymers • Development of biodegradable superabsorbent hydrogels • Effective utilization of sea lettuce pullulating in Hakata bay
Kuroki, Shoichi	Physics of nonlinear non-equilibrium system	<ul style="list-style-type: none"> • Pattern Entropy of diffusive complex time series. • Transport phenomena caused by non-linear motions.
Ma, Chang-Jin	Atmospheric environment	<ul style="list-style-type: none"> • Atmospheric pollution in life environment • Local and global scale atmospheric environment • Trace element analysis in the sample of atmospheric environment
*Tamura, Noriaki e-mail: tamura@fwu.ac.jp	Plant physiology	<ul style="list-style-type: none"> • Primary processes in photosynthesis • Molecular mechanisms of adaptation to environmental stresses in plants • Molecular Mechanisms of Sex differentiation in the

		green algae <i>Chlamydomonas</i>
Yamada, Machiko	Environmental biology	<ul style="list-style-type: none"> • Environmental conservation and bioremediation of coastal habitats in enclosed seas • Environmental assessment with bioindicator • Diversity and physiological and ecological characteristics of important diatom <i>Skeletonema</i>
Inomata, Nobuyuki	Evolutionary genetics	<ul style="list-style-type: none"> • Genetic basis of adaptive evolution • Phylogeography of organisms
Matsuo, Ryota	Neurobiology	<ul style="list-style-type: none"> • Molecular mechanism of DNA amplification in neuron • Neural/molecular mechanism of olfactory learning in slug • Spontaneous regeneration of nervous system in slug • Neural mechanism of phototaxis in slug
Yuge, Masahiro	Developmental biology	<ul style="list-style-type: none"> • Early development of vertebrate embryos

Division of Nutritional and Health Sciences

Name	Research theme	Research topics
Hayabuchi, Hitomi	Public Health Nutrition	<ul style="list-style-type: none"> • Nutritional management for prevention of lifestyle-related diseases • Nutritional epidemiological study • Promotion activity of dietary salt reduction • Promotion activity of "Shokuiku"
*Nakamura, Tsuyoshi e-mail: t-naka@fwu.ac.jp	Basic Nutritional Science	<ul style="list-style-type: none"> • Effects of antioxidants on Liver disease, Crohn's disease etc. • Studies of enteral or oral nutrition • Studies of lipid nutrition and metabolism • Studies of digestion and absorption
Hamada, Shun	Neuroscience	<ul style="list-style-type: none"> • Function of vitamins and biofactors in the nervous system • Mechanisms for formation and maintenance of taste buds • Evolutionary neuroscience of basal metazoans
Ohta, Masanori	Public Health	<ul style="list-style-type: none"> • A practical research on the effect of health-promoting activity focusing on exercises on multilateral aspects

		<ul style="list-style-type: none"> • A study regarding the association between exercise and oxidative stress • A study on the ability to work
Funaki, Junko	Cookery science	<ul style="list-style-type: none"> • Improvements of the taste, and texture • Developments of cooking properties using proteases • Taste-modifying substances
Katagiri, Yoshinori	Management of providing meals	<ul style="list-style-type: none"> • Management of nutrition management departments at medical institutions • Nutritional assessments for hospitalized patients • Dietary therapies for diseases • Nutrition Support Teams (NST) • Training of registered dietitians working in the medical field
Mizumoto, Kaori	Clinical nutrition	<ul style="list-style-type: none"> • Nutritional management for prevention and treatment of lifestyle-related diseases • Women's BMI and its associated factors during pregnant and lactation period • Diet and health related issues in the globalizing world • Double burden of malnutrition among low-income population
Ishikawa, Hiroya	Food science	<ul style="list-style-type: none"> • Elucidate the physiological activities (e.g. antioxidative property) of various compounds in natural and food products. • Evaluation of the volatile flavor profiles in various food products with sniffing-GC-MS instrument. • Micro-encapsulation of functional compounds from food and natural products. • Development of food products with novel extraction and drying methods.
Takahashi, Toru	Nutritional Biochemistry	<ul style="list-style-type: none"> • Mode of sugar absorption in the intestine • Mode of water absorption in the intestine • Study on mastication.
Shinkai, Shoji	Food business and marketing	<ul style="list-style-type: none"> • Analysis of food production, marketing and consumption • Organization and management of farming businesses • International trade of food

Kobayashi, Koji	Food safety science	<ul style="list-style-type: none"> • Studies on Injury and Recovery of <i>Campylobacter jejuni</i> • Development of rapid detection method of norovirus • Development of novel method for the evaluation of food additives
------------------------	---------------------	---

Division of Environmental Management

Name	Research theme	Research topics
Ohnaka, Tadakatsu	Living Environmental Health	<ul style="list-style-type: none"> • Study on bathing and bathroom environments in Japan • Study on thermal comfort in residential houses • Study on sleep and bedroom environments • Study on indoor air quality and health influences
*Morita, Takeshi e-mail: morita@fwu.ac.jp	Residential architecture and environmental science	<ul style="list-style-type: none"> • Influence of light on human biological rhythm
Syoyama, Shigeko	Environmental design	<ul style="list-style-type: none"> • Study on landscape color in the urban space • Evaluation of the outdoor advertisement in the urban space • Evaluation of the uniforms for medical care staffs
Iwasaki, Shinpei	Environmental Life Science	<ul style="list-style-type: none"> • Evaluation of Human Attitude and Behavior Based on Environmental Education and Information • Environmental Resource Management • A Study on Environmental Change and Its Socio-Economic Impacts in Communities
Okayama, Toshinao	Environmental Policy	<ul style="list-style-type: none"> • Study on environmental governance and policy in Japan including low carbon society, sound material cycle society and nature conservation • Comparative study of environmental policy in and outside Japan
Fujino, Tomokazu	Environmental informatics	<ul style="list-style-type: none"> • Development of new framework of statistical analysis and data visualization for environmental data and massive dataset • Study on a method for effective use of official statistics for designing and evaluating environmental policy

Fujioka, Kaoru	Environmental and mathematical Sciences	• Mathematical models of environment and social phenomenon
Shimada, Daisaku	Environmental economics	• Research on sustainable use of common-pool natural resources • Research on nature access institutions
