

List of prospective supervisors

Course	Major Chair [Rengo-Koza]	Supervisor	Field of Instruction and Research	
			Research Field	Research Theme
Science of Biological Production	Plant Production & Management	YAMADA, Kunio (Gifu University)	Floricultural Science	Plant physiological study on improvement of quality and productivity of ornamental plants
		MATSUBARA, Yoichi (Gifu University)	Vegetable Crop Science	Biological and physiological study and the application to sustainable culture and environmental stress tolerance in vegetable crops
		SUZUKI, Katsumi (Shizuoka University)	Protected Horticulture and Vegetable Crop Science	The study of suitable and high-quality vegetable production in protected horticulture
		KIRIWA, Yoshikazu (Shizuoka University)	Vegetable Crop Science	The study on physiological response to abiotic stress in vegetable crop production
		YAHATA, Masaki (Shizuoka University)	Pomology	Study on physiology of fruit set and Development of high quality fruit tree using chromosome engineering technique
		MATSUMOTO, Kazuhiro (Shizuoka University)	Horticultural Science	The physiological and ecological studies on horticultural crops for the production of high quality agricultural products
		NAKATSUKA, Takashi (Shizuoka University)	Floricultural Science	Molecular biology of floricultural plants
		SHIMAZU, Teruaki (Gifu University)	Environmental Control in Plant Production Systems	Development of environmental control techniques for plant production and its application to plant science
		OBA, Shinya (Gifu University)	Plant Growth Diagnostics	Analysis of economical plants by genetic and eco-physiological aspects to develop the technology for plant production
		YAMANE, Kyoko (Gifu University)	Genetics and Plant Breeding	Search, collecting and evaluation of plant genetic resources
		NAKANO, Kohei (Gifu University)	Postharvest Engineering	Development of the quality preservation theory and technology in agricultural produces
		KATO, Masaya (Shizuoka University)	Postharvest Physiology	Physiology, biochemistry, and molecular biology in postharvest horticultural crops
		SHIBAGAKI, Hiroshi (Shizuoka University)	Agricultural Management and Economics	Theoretical and positive studies on agricultural cooperatives and agricultural finance
		KAJIKAWA, Chikako (Gifu University)	Agricultural Economics	Econometric research on supply-demand structure of agricultural products and structure of the food industry
		THAMMAWONG, Manasikan (Gifu University)	Postharvest Physiology	Study of the quality change mechanism in food and the development of quality maintenance technology
		OCHIAI, Masaki (Gifu University)	Floricultural Science	Molecular biology and development of breeding technology in ornamental plants
MUKAI, Hiroo (Shizuoka University)	Pomology	Fruit maturation, Fruit characteristics, in vitro culture of juice vesicle		
TOMINAGA, Akiyoshi (Shizuoka University)	Horticultural Physiology	Mutation breeding of horticultural crops, Physiological studies based on problems of agricultural field		
MA Gang (Shizuoka University)	Functional Properties of Fruit and Vegetables after Harvest	Elucidation of the accumulation mechanism of nutritional and functional compounds in fruit and vegetables after harvest		

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Science of Biological Production	Animal Resource Production	KUSUDA, Satoshi (Gifu University)	Reproductive Sciences in Animal Conservation	Reproductive physiology and ecology in endangered animals and development of “Zoo Sciences”
		SASANAMI, Tomohiro (Shizuoka University)	Molecular Cell Biology	The studies on the molecular mechanism of egg envelop formation and fertilization in birds
		YOGO, Keiichiro (Shizuoka University)	Reproductive Biology	Molecular and cellular biology of development and differentiation of mammalian germ cells
		IWASAWA, Atsushi (Gifu University)	Chemical Endocrinology	Biochemistry of animal endocrine system and metabolism
		MATSUMURA, Shuichi (Gifu University)	Animal Genetics	Studies on evolutionary history and genetic diversity of animals
		YAYOTA, Masato (Gifu University)	Animal Nutritional Ecology	Nutritional ecology of ruminants and application to animal production
		YAMAMOTO, Akemi (Gifu University)	Animal Nutrition	Nutrients requirement and nutritional evaluation for feedstuffs in monogastric animal
		NINOMIYA, Shigeru (Gifu University)	Animal Welfare and Behaviour	Applied Ethology and animal welfare
		HIMAKI, Takehiro (Gifu University)	Developmental Engineering	Studies on improvement of developmental engineering technology and production of high value added animals
		TADANO, Ryo (Gifu University)	Animal Genome Diversity	Study on Genetic Diversity of Domestic and Wild Animals
		OHTSUKA, Tsuyoshi (Gifu University)	Animal productive management	Studies on various rearing environment and productivity in animals
TORIYAMA, Masaru (Shizuoka University)	Cell Biology	The studies on the mechanism of sea urchin egg mitosis		
Science of Biological Environment	Agricultural& Environmental Engineering	HIRAMATSU, Ken (Gifu University)	Environmental Hydraulics	Management of water environment and aquatic ecosystem in rural area
		ONISHI, Takeo (Gifu University)	Hydrology	Understanding the mechanism of water and material cycles and evaluation of the anthropogenic impact on these cycles
		ITO, Kengo (Gifu University)	Aquatic Environment	Management of environment and ecosystem conservation in paddy field
		NISHIMURA, Shinichi (Gifu University)	Engineering for Agricultural Structures	Safety and effective use of agricultural structures for water supply
		NISHIYAMA, Tatsuro (Gifu University)	Engineering Mechanics of Structures for Irrigation	Mechanical analysis of dams for irrigation
		NISHIMURA, Naomasa (Gifu University)	Engineering for Soil Environment	Management of Soil Environment
		NODA, Keigo (Gifu University)	Water Resources and Environment Design	Watershed hydrology and material dynamics focused on agricultural activities in Monsoon Asia an Asia Pacific Islands
		IMAIZUMI, Fumitoshi (Shizuoka University)	Erosion Control Engineering	Management of sediment and water in mountainous catchments

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Science of Biological Environment	Management of Biological Environment	MATSUI, Tsutomu (Gifu University)	Crop Production Science	Sustainable crop production
		TSUCHIDA, Koji (Gifu University)	Insect Ecology	Studies on the genetical variation within insect populations
		TAGAMI, Yohsuke (Shizuoka University)	Applied Entomology	Development of insect pest control technique using insect- symbiont relationship
		KASAI, Atsushi (Shizuoka University)	Biological Control	Studies of interspecies interactions on pest management
		HORIIKE, Tokumasa (Shizuoka University)	Molecular Evolution	Molecular evolution using genomic information
		SUGA, Haruhisa (Gifu University)	Molecular Plant Pathology	Studies on evolution, ecology and pathogenicity of plant pathogens
		SAWADA, Hitoshi (Shizuoka University)	Applied Ecology	Plant population biology and adaptation to defoliation and disturbance
		YAMASHITA, Masayuki (Shizuoka University)	Ecological Genetics	Invasion ecology of exotic plants and weeds
		INAGAKI, Hidehiro (Shizuoka University)	Agroecology, Weed science	Studies on assessment of biodiversity in rural area and ecological management of weed
		MUKAI, Yuzuru (Gifu University)	Forest Genetics	Population genetics and eco-physiology analysis of mating systems and mechanisms for maintenance of genetic diversities in woody plants
		KAWAKUBO, Nobumitsu (Gifu University)	Plant Evolutionary Ecology	Evolutionary Studies on Flowering and Pollination
		MIZUNAGA, Hiromi (Shizuoka University)	Silviculture	Rehabilitation of forest ecosystem
		IIO, Atsushi (Shizuoka University)	Forest Eco-physiology	Eco-physiological process of canopy photosynthesis and transpiration in forest ecosystems
		ISHIDA, Megumi (Gifu University)	Montane Ecology and Management	Conservation and management of mountain zone
		ANDO, Masaki (Gifu University)	Management of Forest and Wildlife	Studies on biological interactions in forest ecology and wildlife management
		TOMITA, Ryoto (Shizuoka University)	Environmental Sociology	Consideration of social thought and theory for sustainable and adaptive governance based on social research.
		KATO, Shogo (Gifu University)	Forest Ecology	Spatial pattern and process in woody plants (Hemiparasitic plant, understoryplant, and Liana) Positive and negative phototropism of root climber
		HIROTA, Isao (Gifu University)	Regional Resource Ecology	Regional plant utilization and management in Southeast Asia and Japan Agricultural system and ecology in Southeast Asia and Japan
		OKAMOTO, Tomoko (Gifu University)	Chemical Ecology	Chemical communication on insect-insect and insect-plant interaction.
		TANAKA, Takashi S.T. (Gifu University)	Agronomy	Agronomic studies on paddy rice, wheat, and soybean
KATAHATA, Shin ichiro (Gifu University)	Tree Ecophysiology	Studies on environmental response and acclimation in woody plants		
NARAMOTO, Masaaki (Shizuoka University)	Forest ecophysiology	Tree ecophysiological responses to environmental changes		
NAGUMO, Toshiyuki (Shizuoka University)	Soil Science	Nutrient cycling in agroecosystem, Use of soil amendments, Phosphorus dynamics in paddy soil		

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Science of Biological Resources	Utilization of Biological Resources	MITSunAGA, Tohru (Gifu University)	Phytochemistry	Structural analysis and functional elucidation of plant secondary metabolites
		KAWAI, Shingo (Shizuoka University)	Lignin Biochemistry	Biosynthesis and biodegradation of lignin and related compounds
		YAMADA, Masaaki (Shizuoka University)	Polymer Composite Material	The development and performance evaluation of new wood adhesives
		KOJIMA, Yoichi (Shizuoka University)	Wood Biomass Science	Studies on the effective use of woody biomass
		KOBAYASHI, Kenji (Shizuoka University)	Timber Structures	Studies on seismic performances of timber structures
		KAMAYA, Yasushi (Shizuoka University)	Environmental Toxicology	Environmental Fate and Biological Effects of Organic Contaminants
		IWAMOTO, Satoshi (Gifu University)	Physical Chemistry and Engineering for Food Materials	Physicochemical studies of phase and/or glass transitions of food colloids for high value-added food production
		NISHIZU, Takahisa (Gifu University)	Food Process Engineering	Research in food physics and engineering analysis of food process operations
		KATSUNO, Nakako (Gifu University)	Food Processing Chemistry	Study of the chemical change in food during processing and preservation
		YABE, Tomio (Gifu University)	Carbohydrate Biochemistry	Biochemistry and molecular cell biology of glycans for molecular structure and biological functions
		INAGAKI, Mizuho (Gifu University)	Food material chemistry	Study on intestinal environmental control using food material
		YAMAUCHI, Kosei (Gifu University)	Natural products chemistry	Study on isolation, identification, and bioactivities of ingredients in medicinal plants
		IMAIZUMI, Teppei (Gifu University)	Process Engineering for Agriproducts	Studies on structural and physical properties in processed fruit and vegetables
		WATANABE, Hiromu (Shizuoka University)	Indoor Environment	Indoor air quality (volatile organic compounds (VOCs) in indoor air)
		TANAKA Takashi (Shizuoka University)	Polymer Composite Material	Wood physics and drying, wood-based materials, wood adhesives, sensing technologies using X-rays
		KOBORI, Hikaru (Shizuoka University)	Wood Materials Science	Development of wood based materials and their nondestructive evaluation method
		YONEDA, Yuko (Shizuoka University)	Wood Chemistry	Analysis of chemical structures and properties of polysaccharides and glycosides
		OGAWA, Keita (Shizuoka University)	Strength Property of Wood	Strength properties of structural wood, wood-based materials, and wooden joints
		SUZUKI, Shiro (Gifu University)	Chemistry of Biomass Materials	Study of chemical structures, formation, and utilization of biomass
	Smart Material Science	ISHIDA, Hideharu (Gifu University)	Glycotechnology	Chemical biology of bioactive glycoconjugates
		ANDO, Hiromune (Gifu University)	Chemistry Featuring Carbohydrates	Molecular biology-oriented chemical synthesis of carbohydrates and application of their functions to medicinal chemistry
		IMAMURA, Akihiro (Gifu University)	Applied Carbohydrate Chemistry	Chemical synthesis of biologically-relevant carbohydrate molecules and functional glyco-probes
		UENO, Yoshihito (Gifu University)	Nucleic Acid Chemistry	Design and chemical synthesis of functional nucleic acids for gene therapy and genetic diagnosis
SUZUKI, Kenichi (Gifu University)		Cell Biophysics	Studies on cell membrane structures and signal transduction by single-molecule imaging	
TANAKA, Hidenori (Gifu University)		Bio-related Chemistry	Synthesis and chemical biology of biologically active molecules	

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Science of Biological Resources	Regulation of Biological Functions	NAKAGAWA, Tsutomu (Gifu University)	Applied Biochemistry	Biochemistry and molecular cell biology of enzymes and proteins, and their application
		IWAHASHI, Hitoshi (Gifu University)	Applied Microbiology	Elucidation and utilization of stress response from microbe to higher organisms
		SUZUKI, Tooru (Gifu University)	Genome Microbiology	A new aspect of microbiology from genome science and bio-informatics
		NAKAMURA, Kohei (Gifu University)	Microbial Molecular Ecology	Fundamental and applied microbial ecology in anaerobic environments
		TOKUYAMA, Shinji (Shizuoka University)	Applied Microbiology	Study on useful enzymes from microorganisms
		OGAWA, Naoto (Shizuoka University)	Environmental Microbiology	Analysis of the function of environmental microbes
		SHIMIZU, Masafumi (Gifu University)	Plant Pathology	Studies on plant probiotics and plant-microbe interactions in the rhizosphere
		NAKAGAWA, Tomoyuki (Gifu University)	Food and Nutritional Biochemistry	Molecular cell biology and molecular breeding of yeasts, Development of industrial enzymes
		SHIMADA, Masaya (Gifu University)	Molecular Nutrition	Regulation of metabolic diseases (e.g., fatty liver) by nutrients and food components
		EBIHARA, Akio (Gifu University)	Enzyme Science	Studies on structure and function of enzyme
		KIZUKA, Yasuhiko (Gifu University)	Glyco-biochemistry	Biochemical studies on physiological functions and disease involvement of glycans
		NAGAOKA, Satoshi (Gifu University)	Functional Food Science	Biochemical and molecular biological studies on the physiological functions of food components
		IKKA, Takashi (Shizuoka University)	Plant Nutritional Physiology	Plant nutritional study on abiotic stress tolerance mechanism
		KOYAMA, Hiroyuki (Gifu University)	Plant Cell Technology	Molecular physiology and molecular breeding of acid soil tolerant plants
		YAMAMOTO, Yoshiharu Y. (Gifu University)	Plant Genome Biology	Study of environmental adaptation and evolution in plants
		KOBAYASHI, Yuriko (Gifu University)	Molecular Plant Nutrition	Molecular mechanisms of plant response and tolerance to nutrition and toxic elements
		NISIMURA, Naomichi (Shizuoka University)	Nutritional Biochemistry	Studies on the physiological effects of food components via changed colonic fermentation
		IWAMA, Tomonori (Gifu University)	Microbial Biochemistry	Structure and function of bacterial chemoreceptors
		KITAGUCHI, Kohji (Gifu University)	Food Immunology	Studies on the immunomodulation by food ingredients
		SHIMADA, Atsuhiko (Gifu University)	Enzyme science	Elucidation of the chemical reaction driven by the protein based on its 3D structures
SAMESHIMA, Reiko (Shizuoka University)	Soil Microbiology	Physiological and ecological study of microbes related to the transformation of nitrogen compounds in soil environments		
HASHIMOTO, Misuzu (Gifu University)	Animal Biochemistry	Study on the mechanisms of brain development and function by analysis of genetically modified mice.		

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International Joint Ph.D. Program in Food Science & Technology	YANASE, Emiko (Gifu University)	Bioorganic Chemistry	Structural analysis and chemical study of plant polyphenols