Fields of Instruction and Research Themes of Professors

	Major Chair		Field of Instruction and Research		Major Subject
Course	[Rengo-Koza]	PROFESSOR	Research Field	Research Theme	Offered for Examination
	Plant Production & Management	MATSUBARA, Yoichi (Gifu University)	Vegetable Crop Science	Biological and physiological study and the application to sustainable culture and environmental stress tolerance in vegetable crops	Vegetable Crop Science
		SUZUKI, Katsumi (Shizuoka University)	Protected Horticulture and Vegetable Crop Science	The study of suitable and high-quality vegetable production in protected horticulture	Protected Horticulture and Vegetable Crop Science
		KIRIIWA, Yoshikazu (Shizuoka University)	Vegetable Crop Science	The study on physiological response to abiotic stress in vegetable crop production	Vegetable Crop Science
		YAHATA, Masaki (Shizuoka University)	Pomology	Study on physiology of fruit set and Development of high quality fruit tree using chromosome engineering technique	Pomology
		SHIMAZU, Teruaki (Gifu University)	Enviromental Control in Plant Production Systems	Development of environmental control techniques for plant production and its application to plant science	Greenhouse and Biosystems Engineering
		OBA, Shinya (Gifu University)	Plant Growth Diagnostics	Analysis of economical plants by genetic and eco-physiological aspects to develop the technology for plant production	Plant Eco-physiology
		MAEZAWA, Shigenori (Gifu University)	Food Distribution System Science and	Empirical study for mechanism of food distribution	System
		YAMAWAKI, Kazuki (Shizuoka University)	Technology for Harvested Horticultural Food Products	Studies on keeping and raising quality in harvested fruits and vegetables	Science and Technology for Harvested Horticultural Food Products
		NAKANO, Kohei (Gifu University)	Postharvest Engineering	Development of the quality preservation theory and technology in agricultural produces	Postharvest Technology
		KATO, Masaya (Shizuoka University)	Postharvest Physiology	Physiology, biochemistry, and molecular biology in postharvest horticultural crops	Postharvest Physiology
Science of Biological Production		TOGASHI, Koichi (Gifu University)	Research on Local Industries and Corporations	Local industries and community development	Regional Policy for Industrial Development
		SHIBAGAKI, Hiroshi (Shizuoka University)	Agricultural Management and Economics	finance	Agricultural Management and Economics
	Animal Resource Production	SASANAMI, Tomohiro (Shizuoka University)	Molecular Cell Biology	The studies on the molecular mechanism of egg envelop formation and fertilization in birds	Cell Biology
		TORIYAMA, Masaru (Shizuoka University)	Cell Biology	The studies on the mechanism of sea urchin egg mitosis	Molecular Biology of the Cell
		YOGO, Keiichiro (Shizuoka University)	Reproductive Biology	Molecular and cellular biology of development and differentiation of mammalian germ cells	Reproductive Biology
		IWASAWA, Atsushi (Gifu University)	Chemical Endocrinology	Biochemistry of animal endocrine system and metabolism	Chemical Endocrinology
		MATSUMURA, Shuichi (Gifu University)	Animal Genetics	Studies on evolutionary history and genetic diversity of animals	Animal Molecular Genetics
		DOI, Osamu (Gifu University)	Animal Reproduction	Physiology and technology of reproduction in animals	Physiology of Animal Reproduction
		YAYOTA, Masato (Gifu University)	Animal Nutritional Ecology	Nutritional ecology of ruminants and application to animal production	Animal Nutrition
		YAMAMOTO, Akemi (Gifu University)	Animal Nutrition	Nutrients requirement and nutritional evaluation for feedstuffs in monogastric animal	Animal Nutrition
		NINOMIYA, Shigeru (Gifu University)	Animal Welfare and Behaviour	Applied Ethology and animal welfare	Animal Welfare and Behaviour
		KOYA, Yasunori (Gifu University)	Animal Reproductive Biology	Studies on evolution of reproductive mode in fishes using functional morphology of gonad and reproductive behavior, and their application for aquaculture	Animal Reproductive Biology

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	Agricultural & Environmental Engineering	HIRAMATSU, Ken (Gifu University)	Environmental Hydraulics	Management of water environment and aquatic ecosystem in rural area	Environmental Hydraulics
		ONISHI, Takeo (Gifu University)	Hydrology	Understanding the mechanism of water and material cycles and evaluation of the anthropogenic impact on these cycles	Hydrology
		ITO, Kengo (Gifu University)	Aquatic Environment		Ecology and Civil Engineering
		NISHIMURA, Shinichi (Gifu University)	Engineering for Agricultural Structures	Safety and effective use of agricultural structures for water supply	Engineering for Agricultural Structures
		IMAIZUMI, Fumitoshi (Shizuoka University)	Erosion Control Engineering	Management of sediment and water in mountainous catchments	Erosion Control Engineering
	Management of Biological Environment	MATSUI, Tsutomu (Gifu University)	Crop Production Science	Sustainable crop production	Crop Production Science
		TSUCHIDA, Koji (Gifu University)	Insect Ecology	Studies on the genetical variation within insect populations	Insect Ecology
		MUKAI, Takahiko (Gifu University)	Biogeography	The studies of the biodiversity in space and through time, and of the conservation methods	Biogeography
		TAGAMI, Yohsuke (Shizuoka University)	Applied Entomology	Development of insect pest control technique using insect-symbiont relationship	Biology of insect symbiosis
		KAGEYAMA, Koji (Gifu University)	Fungal Ecology	Development of molecular detection technique of oomycetes and clarification of their ecology using the technique	Fungal Ecology
		SUGA, Haruhisa (Gifu University)	Molecular Plant Pathology	Stuies on evolution, ecology and pathogenicity of plant pathogens	Molecular Plant Pathology
Science of Biological Environment		TSUDA, Satoshi (Gifu University)	Plant Ecology	Ecological studies on vegetation structure and dynamics	Plant Ecology
		SAWADA, Hitoshi (Shizuoka University)	Applied Ecology	Plant population biology and adaptation to defoliation and disturbance	Applied Ecology
		YAMASHITA, Masayuki (Shizuoka University)	Ecological Genetics	Invasion ecology of exotic plants and weeds	Invasion Ecology
		INAGAKI, Hidehiro (Shizuoka University)	Agroecology, Weed science	Studies on assessment of biodiversity in rural area and ecological management of weed	Weed science
		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	Evolutionary Biology
		OHTSUKA, Toshiyuki (Gifu University)	Ecosystem Ecology	Carbon cycling and carbon sequestration in terrestrial ecosystems	Carbon cycling in terrestrial ecosystems
		MIZUNAGA, Hiromi (Shizuoka University)	Silviculture	Rehabilitation of forest ecosystem	Ecological Management of Forest
		AWAYA, Yoshio (Gifu University)	Forest Resource Management	Plant remote sensing and forest management	
		MURAOKA, Hiroyuki (Gifu University)	Ecosystem Physiology	Ecophysiological study from whole-plant to landscape in terrestrial ecosystems	Ecosystem Physiology
		ISHIDA, Megumi (Gifu University)	Montane Ecology and Management	Conservation and management of mountain zone	Montane ecology and management
		WEI, Yongfen (Gifu University)	Environmental Monitoring	Monitoring and assessment of mass circulation in basin environment	Environmental Monitoring

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Course	[Rengo-Koza]	T KOT ESSOR	Research Field	Research Theme	Examination
Science of Biological Resources	Utilization of Biological Resources	MITSUNAGA, Tohru (Gifu University)	Phytochemistry	Structural analysis and functional elucidation of plant secondary metabolites	Natural Products Chemistry
		TERAMOTO, Yoshikuni (Gifu University)	Chemistry of Biomass-based Materials	Material functionalization of cellulose, related polysaccharides, and wood components	Chemistry of Biomass-based Materials
		YANASE, Emiko (Gifu University)	Bioorganic Chemistry	Structural analysis and chemical study of plant polyphenols	Bioorganic Chemistry
		KAWAI, Shingo (Shizuoka University)	Lignin Biochemistry	Biosynthesis and biodegradation of lignin and related compounds	Lignin Biochemistry
		YAMADA, Masaaki (Shizuoka University)	Polymer Composite Material	The development and performance evaluation of new wood adhesives	Wood Adhesion
		KOJIMA, Yoichi (Shizuoka University)	Wood Biomass Science	Studies on the effective use of woody biomass	Wood Biomass Science
		KOBAYASHI, Kenji (Shizuoka University)	Timber Structures	Studies on seismic performances of timber structures	Timber Structures
		KAMAYA, Yasushi (Shizuoka University)	Environmental Toxicology	Environmental Fate and Biological Effects of Organic Contaminants	Ecotoxicology
		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	Colloid Science for Food Materials
		NISHIZU, Takahisa (Gifu University)	Food Process Engineering	Research in food physics and engineering analysis of food process operations	Food Process Engineering
		YABE, Tomio (Gifu University)	Carbohydrate Biochemistry	Biochemistry and molecular cell biology of glycans for molecular structure and biological functions	Glycobiology
	Smart Material Science	ISHIDA, Hideharu (Gifu University)	Glycotechnology	Chemical biology of bioactive glycoconjugates	Chemical Biology
		ANDO, Hiromune (Gifu University)	Chemistry Featuring Carbohydrates	Molecular biology-oriented chemical synthesis of carbohydrates and application of their functions to medicinal chemistry	Chemistry on Synthesis and Application of Carbohydrates
		IMAMURA, Akihiro (Gifu University)	Applied Carbohydrate Chemistry	Chemical synthesis of biologically-relevant carbohydrate molecules and functional glyco-probes	Applied Carbohydrate Chemistry
		*KAMEYAMA, Akihiko (Gifu University)	Analytical Glycotechnology	Structure-function analysis of glycans and its applications to pharmaceuticals including products for medical diagnosis	Analytical Chemistry for Glycoconjugates
		UENO, Yoshihito (Gifu University)	Nucleic Acid Chemistry	Design and chemical synthesis of functional nucleic acids for gene therapy and genetic diagnosis	Chemistry of Nucleosides, Nucleotides and Nucleic Acids
		YOSHIMATSU, Mitsuhiro (Gifu University)	Life Science Organic Chemistry	Synthesis of bioactive compounds using a new methodology and their biological functions	Organic Chemistry

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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	Applied Biochemistry
		IWAHASHI, Hitoshi (Gifu University)	Applied Microbiology	Elucidation and utilization of stress response from microbe to higher organisms	OMICS Biology
		SUZUKI, Tohru (Gifu University)	Genome Microbiology	A new aspect of microbiology from genome science and bio-informatics	Genome Microbiology
		NAKAMURA, Kohei (Gifu University)	Microbial Molecular Ecology	Fundamental and applied microbial ecology in anaerobic environments	Microbial Molecular Ecology
		OGAWA, Naoto (Shizuoka University)	Environmental Microbiology	Analysis of the function of environmental microbes	Environmental Microbiology
		SHIMIZU, Masafumi (Gifu University)	Plant Pathology	Studies on plant probiotics and plant-microbe interactions in the rhizosphere	Plant Pathology
		*CHIBA, Yasunori (Gifu University)	Microbial Glycobiology	Production technologies of glycan-engineered proteins and materials by microbes	Microbial Glycobiology
		NAKAGAWA, Tomoyuki (Gifu University)	Food and Nutritional Biochemistry	Molecular cell biology and molecular breeding of yeasts, Development of industrial enzymes	Food Microbiology
		EBIHARA, Akio (Gifu University)	Enzyme Science	Studies on structure and function of enzyme	Enzyme Science
		NAGAOKA, Satoshi (Gifu University)	Functional Food Science	Biochemical and molecular biological studies on the physiological functions of food components	Functional Food Science
		MORITA, Akio (Shizuoka University)	Plant Nutrition	Nutritional physiology of plants and plant cells	Plant Nutrition
		KOYAMA, Hiroyuki (Gifu University)	Plant Cell Technology	Molecular physiology and molecular breeding of acid soil tolerant plants	Plant Cell Technology
		YAMAMOTO, Yoshiharu Y. (Gifu University)	Plant Genome Biology	Study of environmental adaptation and evolution in plants	Plant Genome Biology

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