

Professors and Their Research Interests (教授名, 研究題目等)

Graduate School of Integrated Arts and Sciences 総合科学教育部

URL(<http://pub2.db.tokushima-u.ac.jp/ERD/organization/185666/index-en.html>)

Master Course 博士前期課程

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Community Development Studies	ARATAKE Tatsuro	Modern Chinese History
	ISHIDA Kazuyuki	Analysis on local tax policy, fiscal health, and local government budgeting
	ISHIDA Motohiro	Text Mining, Applied Statistics
	UENO Kayoko	Sociology of Social Problems. Comparative Studies of Child Abuse in US and Japan.
	KISHIE Sinsuke	Sociolinguistic Research in West Japan Dialects
	SATO Mitsuhiro	Junior sports and play in a community, Disabilities and body activity
	TAKAHASHI Shin-ichi	Folk Cultures in East Asia, Urban Cultures
	TAMA Shinnosuke	Rural Economy and Regional planning
	TOYODA Tetsuya	Economic Geography and Urban Studies
	NAKAMURA Yutaka	Archeology of Japan and East Asia
	HIRAI Shogo	Geography of Modern Rural Chawges and Migration
	HIRAKI Mitsuru	Study of Painting Expression
	MIURA Hajime	Exercise Physiology, Cardiovascular Responses During Various Physical Activities
	YAMAGUCHI Tetsuo	Musculoskeletal injury and preventive medicine
	YOSHIDA Atsuya	Community Technology, Interaction Design, Learning Resources & Information
YOSHIMORI Kensuke	Medieval Chinese History	
Environmental Symbiosis Studies	IMAI Shoji	Applied Spectroscopy, Atomic Apectrometry, Trace Analysis
	OOHASHI Makoto	Molecular Analysis of Leucocyte Chemotactic Factors
	OYAMA Yasuo	Pharmacological and toxicological studies on cell functions using fluorescent probes
	KURISU Satoshi	Environmental Politics, Politics
	HAMANO Tatsuo	Aquabiology, Stock-enhancement
	MAKABE Kazuhiro	Molecular and evolutionary developmental biology of lower chordates
	MATSUO Yoshinori	Genetic and Molecular Biology of the Mechanism of Evolution
	MAYUMI Kozo	Natural Resources, Environmental Economics, Energy Analysis, Epistemology in Economic Science
	YOKOIGAWA Kumio	Structure and function of Microbial Enzymes
	WATANABE Minoru	Morecular Biology, Developmental Biology

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Advanced Studies in Arts and Sciences (the Humanities Course)	TAKUBO Hiroshi	18th-19th century British culture and literature Narrative theory
	MIYAZAKI Takayoshi	Thomas Hardy and Other Victorian Novelists
	YORIOKA Ryuji	Contemporary German Literature, Comparative Culture
Advanced Studies in Arts and Sciences (Integrated Natural, Computer and Material Sciences)	IZAWA Kenichi	Theoretical Elementary Particle Physics, Physical Cosmology
	ISHIDA Keisuke	Paleozoic and Mesozoic Stratigraphy, Microfossil Geology, Geological Setting of Shikoku
	IMAI Shoji	Applied Spectroscopy, Atomic Apectrometry, Trace Analysis
	OHBUCHI Akira	Projective Models of Abelian Varieties
	OGASAWARA Masamichi	Design and preparation of organometallic compounds and their uses in stereoselective organic synthesis
	ONO Kosuke	Nonlinear Analysis
	KATAYAMA Shin-ichi	Algebraic Number Theory (Especially on Class Numbers and Units)
	KOYAMA Kuniyuki	Physical Properties of Low-Dimensional Strongly Correlated Electron Systems, Superconductivity and Magnetism
	SAITO Takahito	Solid State Physics
	FUSHIMI Kenichi	Experimental studies of nuclear and particle rate decays, neutrino and cosmic dark matter
	MAGISHI Koichi	Superconductivity and Mognetism in Strongly Correlated Electron System
	MIYOSHI Norikazu	Development of Novel and Efficient Methods in Organic Synthesis
	MURAKAMI Kouichi	Stability and Bifurcation Theory of Differential Equations
	MURATA Akihiro	Geological Structures of the Shimanto Terrane, Active faults in and around Tokushima Prefecture
MORIYASU Kazumine	Stability and Bifurcation for Cr-maps	
Clinical Psychology	UEOKA Yoshinori	Psychological Assessments for Support and Intervention
	SATO Kenji	Clinical and Social Psychology, of Traume, Anxiety, Depression and Sociability
	SATO Yutaka	Experimental Cognitive and Perceptual Psychology
	YAMAMOTO Mayumi	Approach to the Developmental Disorders

Doctoral Course 博士後期課程

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Regional Sciences	ISHIDA Kazuyuki	Analysis on local tax policy, fiscal health, and local government budgeting
	IMAI Shoji	Applied Spectroscopy, Atomic Apectrometry, Trace Analysis
	UENO Kayoko	Sociology of Social Problems. Comparative Studies of Child Abuse in US and Japan.
	OGASAWARA Masamichi	Design and preparation of organometallic compounds and their uses in stereoselective organic synthesis
	TAKAHASHI Shin-ichi	Folk Cultures in East Asia, Urban Cultures
	HAMANO Tatsuo	Aquabiology, Stock-enhancement

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Regional Sciences	MAKABE Kazuhiro	Molecular and evolutionary developmental biology of lower chordates
	MATSUO Yoshinori	Genetic and Molecular Biology of the Mechanism of Evolution
	MAYUMI Kozo	Natural Resources, Environmental Economics, Energy Analysis, Epistemology in Economic Science
	MIURA Hajime	Exercise Physiology, Cardiovascular Responses During Various Physical Activities
	MIYAZAKI Takayoshi	Thomas Hardy and Other Victorian Novelists
	YOKOIGAWA Kumio	Structure and function of Microbial Enzymes
	YORIOKA Ryuji	Contemporary German Literature, Comparative Culture

Graduate School of Medical Sciences 医科学教育部

URL(<http://pub2.db.tokushima-u.ac.jp/ERD/organization/148410/index-en.html>)

Master Course 修士課程

Medical Science (医科学専攻)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Anatomy and Developmental Neurobiology	TOMITA Koichi	Investigation of the mechanisms involved in cortical development and sensory processing in the visual system
Pediatrics	KAGAMI Shoji	Pediatric nephrology, cardiology, hematology, neurology, endocrinology and metabolism
Obstetrics and Gynecology	IRAHARA Minoru	Reproductive medicine and endocrinology, Women's health care, Gynecologic oncology
Cell Biology	YONEMURA Shigenobu	Molecular mechanism of epithelial polarization, mechanobiology of 3-D morphogenesis through adherens junctions
Gastroenterology and Oncology	TAKAYAMA Tetsuji	Molecular analysis of gastrointestinal cancer, chemotherapy and chemoprevention of gastrointestinal cancer
Experimental Immunology	TAKAHAMA Yousuke	Understanding how Tcell repertoire is formed in health and disease.
Immune Regulation	OKAZAKI Taku	Elucidation of the regulatory mechanisms of autoimmunity and cancer immunity
Preventive Medicine	ARISAWA Kokichi	Environmental epidemiology, Epidemiology of chronic disrupters
General Medicine	TANI Kenji	Community Medicine, Rheumatology, Respiriology
Immunology and Parasitology	YASUTOMO Koji	Immunology, T-cell development. Cell differentiation, Human genetics
Microbiology	NOMAGUCHI Masako	Molecular genetics of human and simian immunodeficiency viruses, Structural virology
Anatomy and Cell Biology	TSURUO Yoshihiro	Functional morphology of endocrine cells, Neurosteroids and sexual differentiation
Integrative Physiology	SEI Hiroyoshi	Integrative Neuronal Physiology, Sleep and biological clock, Behavioral control of CNS, Cardiovascular and respiratory control of CNS
Psychiatry	OHMORI Tetsuro	Psychiatry, Psychosomatic medicine, Psychopharmacology
Neurosurgery	to be appointed	Cerebrovascular disease, Brain tumor, Functional neurosurgery

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Molecular Biology	OYADOMARI Seiichi	Endoplasmic reticulum stress in health and disease
Medical Informatics	to be appointed	a-Learning, Hospital IT management, Simulation, Other medical IT related fields
Pharmacology	TAMAKI Toshiaki	Renal pharmacology, Cardiovascular pharmacology, Oxidative Stress, Nitrite
Anesthesiology	TANAKA Katsuya	Electrophysiology and electropharmacology of the heart, Ventriculo-arterial coupling, Transesophageal echocardiography, Effects of anesthetics on cytosolic Ca concentrations during myocardial ischemia
Nephrology	DOI Toshio	Nephrology, Diabetic Nephropathy
Emergency and Critical Care Medicine	NISHIMURA Masaji	Mechanical ventilation, Ventilator-induced lung injury, Acute stroke care, Infection control
Department of Clinical Pharmacology and Therapeutics	ISHIZAWA Keisuke	Cardiovascular pharmacology, Neuropharmacology, Management of Chemotherapy-induced side effects
Ophthalmology	MITAMURA Yoshinori	Ocular infections, Keratoprosthesis, Glaucoma, Uveitis, Diabetic retinopathy, Vitrectomy, Orbital diseases, Strabismus
Otorhinolaryngology and Communicative Neuroscience	TAKEDA Noriaki	Neurotology, Neurolaryngology, Head and neck surgery
Neurology	KAJI Ryuji	Pathophysiology of movement disorders, Physiology of nerve conduction, Molecular genetics of neurological diseases
Molecular Pathology	SAKASHITA Naomi	Cell Biology of Macrophage, Lipid Metabolism, Amyloidosis, General Pathology
Digestive Surgery and Transplantation	SHIMADA Mitsuo	FACS Regenerative medicine: Transplantation (liver, pancreas and islet cell), Hepatic regeneration Oncology: Molecular biology based clinical oncology (carcinogenesis, organotrophism), Development of a new minimum invasive surgery
Cardiovascular Surgery	KITAGAWA Tetsuya	Pediatric cardiac surgery, Surgery for acquired cardiovascular disease, Vascular surgery, and Lymphology, Cellular biology of allograft valve, Pulmonary blood flow, Cardioplegia
Urology	KANAYAMA Hiro-omi	Renal cell carcinoma. Bladder cancer. Tumor invasion and metastasis, Molecular targeted therapy, Laparoscopic surgery, Pediatric urology, Andrology
Cardiovascular Medicine	SATA Masataka	Cardiology, Atherosclerosis, Coronary Intervention, Regenerative Medicine, Stem Cell
Pathology and Laboratory Medicine	TSUNEYAMA kouichi	General pathology, Cancer pathology, Liver pathology, Environmental pathology, Allergy and autoimmune diseases, Metabolic syndrome-related diseases
Radiology and Radiation Oncology	HARADA Masafumi	Mapping of the function and metabolism using MRI, MRS, and RI, Clinical utility of 3-D medical images
Respiratory Medicine and Rheumatology	NISHIOKA Yasuhiko	Lung cancer. Cancer metastasis, Molecular targeted therapy, Interstitillung disease. Bronchial asthma. Immunotherapy, Rheumatology
Thoracic Endocrine Surgery and Oncology	TANGOKU Akira	Esophageal cancer, lung cancer, breast cancer and thyroid cancer therapy. Less invasive surgery. Pathophysiology of postoperative state
Forensic Medicine	NISHIMURA Akiyoshi	Forensic pathology, Neuropathology
Dermatological Science	KUBO Yoshiaki	Skin carcinogenesis, Molecular diagnosis, Stem cell, Hair biology, Cutaneous physiology, Differentiation mechanism of the skin

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Orthopedics	SAIRYO Koichi	Bone lengthening, Distraction osteogenesis
Plastic and Reconstructive Surgery	HASHIMOTO Ichiro	Microsurgery for tissue transplantation, Microcirculation of skin flap, perforator flap, Lymph edema
Institute for animal Experimentation	MATSUMOTO Takahiro	
Biochemistry	SASAKI Takuya	Int racellular signal transduction, Molecular mechanisms of vesicle transport and cytoskeletal control
Human Genetics	IMOTO Issei	Molecular human genetics, Genetic disease, Oncology, Common disease. Epigenetics, Bioinformatics
Hematology, Endocrinology and Metabolism	ABE Masahiro	Endocrinology, Metabolism, Hematology, Vascular biology, Bone biology, Gerontology
Pathophysiology	ROKUTAN Kazuhito	Post-transcriptional regulation of Stress-related genes, stress genomics
Genetic Information	MINEGISHI Yoshiyuki	Identify causing genes of immunodeficiencies and elucidate molecular mechanisms underlying allergic diseases
Genome Medicine	KATAGIRI Toyomasa	Investigation of molecular mechanisms underlying carcinogenesis through comprehensive human genome analysis
Epigenome Dynamics	TACHIBANA Makoto	Investigation of molecular mechanisms of epigenetic gene regulation
Disease Proteomics	TANIGUCHI Hisaaki	Mass Spectrometry, Proteomics, Protein 3D-Structure
Molecular Immunology	MATSUMOTO Mitsuru	Autoimmune disease, Lymphoid organogenesis, Transgenic mouse, Knockout mouse
Molecular Neurobiology	SAKAGUCHI Suehiro	Prion protein signaling, Molecular pathogenesis of prion diseases, Prion vaccines
Molecular Genetics	SAITOH Tatsuya	Understanding and manipulation of inflammation
Enzyme Pathophysiology	FUKUI Kiyoshi	Translational Enzymology on D-Amino Acid Metabolism and Apoptosis Systems

Doctoral Course 博士課程
Medical Sciences (医学専攻)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Anatomy and Developmental Neurobiology	TOMITA Koichi	Investigation of the mechanisms involved in cortical development and sensory processing in the visual system
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Cell Biology	YONEMURA Shigenobu	Molecular mechanism of epithelial polarization, mechanobiology of 3-D morphogenesis through adherens junctions
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Immune Regulation	OKAZAKI Taku	Elucidation of the regulatory mechanisms of autoimmunity and cancer immunity
Preventive Medicine	ARISAWA Kokichi	Environmental epidemiology, Epidemiology of chronic disrupters

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Medical Education	AKAIKE Masashi	Simulation-based medical education, Inter professional education
General Medicine	TANI Kenji	Community Medicine, Rheumatology, Respiriology
Immunology and Parasitology	YASUTOMO Koji	Immunology, T-cell development. Cell differentiation, Human genetics
Microbiology	NOMAGUCHI Masako	Molecular genetics of human and simian immunodeficiency viruses, Structural virology
Anatomy and Cell Biology	TSURUO Yoshihiro	Functional morphology of endocrine cells, Neurosteroids and sexual differentiation
Integrative Physiology	SEI Hiroyoshi	Integrative Neuronal Physiology, Sleep and biological clock, Behavioral control of CNS, Cardiovascular and respiratory control of CNS
Psychiatry	OHMORI Tetsuro	Psychiatry, Psychosomatic medicine, Psychopharmacology
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Molecular Biology	OYADOMARI Seiichi	Endoplasmic reticulum stress in health and disease
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Anesthesiology	TANAKA Katsuya	Electrophysiology and electropharmacology of the heart, Ventriculo-arterial coupling, Transesophageal echocardiography, Effects of anesthetics on cytosolic Ca concentrations during myocardial ischemia
Nephrology	DOI Toshio	Nephrology, Diabetic Nephropathy
Emergency and Critical Care Medicine	NISHIMURA Masaji	Mechanical ventilation, Ventilator-induced lung injury, Acute stroke care, Infection control
Department of Clinical Pharmacology and Therapeutics	ISHIZAWA Keisuke	Cardiovascular pharmacology, Neuropharmacology, Management of chemotherapy-induced side effects
Ophthalmology	MITAMURA Yoshinori	Ocular infections, Keratoprosthesis, Glaucoma, Uveitis, Diabetic retinopathy, Vitrectomy, Orbital diseases, Strabismus
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Minimum-invasion and Tele-mentoring Surgery	IMURA Satoru	
Cardiovascular Surgery	KITAGAWA Tetsuya	Pediatric cardiac surgery, Surgery for acquired cardiovascular disease, Vascular surgery, and Lymphology, Cellular biology of allograft valve, Pulmonary blood flow, Cardioplegia
Urology	KANAYAMA Hiro-omi	Renal cell carcinoma. Bladder cancer. Tumor invasion and metastasis, Molecular targeted therapy, Laparoscopic surgery, Pediatric urology, Andrology

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Cardiovascular Medicine	SATA Masataka	Cardiology, Atherosclerosis, Coronary Intervention, Regenerative Medicine, Stem Cell
Pathology and Laboratory Medicine	TSUNEYAMA Kouichi	General pathology, Cancer pathology, Liver pathology, Environmental pathology, Allergy and autoimmune diseases, Metabolic syndrome-related diseases
Radiology and Radiation Oncology	HARADA Masafumi	Mapping of the function and metabolism using MRI, MRS, and RI, Clinical utility of 3-D medical images
Respiratory Medicine and Rheumatology	NISHIOKA Yasuhiko	Lung cancer. Cancer metastasis, Molecular targeted therapy, Interstitillung disease. Bronchial asthma. Immunotherapy, Rheumatology
Thoracic Endocrine Surgery and Oncology	TANGOKU Akira	Esophageal cancer, lung cancer, breast cancer and thyroid cancer therapy. Less invasive surgery. Pathophysiology of postoperative state
Forensic Medicine	NISHIMURA Akiyoshi	Forensic pathology, Neuropathology
Dermatological Science	KUBO Yoshiaki	Skin carcinogenesis, Molecular diagnosis, Stem cell, Hair biology, Cutaneous physiology, Differentiation mechanism of the skin
Orthopedics	SAIRYO Koichi	Bone lengthening, Distraction osteogenesis
Plastic and Reconstructive Surgery	HASHIMOTO Ichiro	Microsurgery for tissue transplantation, Microcirculation of skin flap, Perforator flap, Lymph edema
Biochemistry	SASAKI Takuya	Int racellular signal transduction, Molecular mechanisms of vesicle transport and cytoskeletal control
Human Genetics	IMOTO Issei	Molecular human genetics, Genetic disease, Oncology, Common disease. Epigenetics, Bioinformatics
Hematology, Endocrinology and Metabolism	ABE Masahiro	Endocrinology, Metabolism, Hematology, Vascular biology, Bone biology, Gerontology
Pathophysiology	ROKUTAN Kazuhito	Post-transcriptional regulation of Stress-related genes, stress genomics
Genetic Information	MINEGISHI Yoshiyuki	Identify causing genes of immunodeficiencies and elucidate molecular mechanisms underlying allergic diseases
Genome Medicine	KATAGIRI Toyomasa	Investigation of molecular mechanisms underlying carcinogenesis through comprehensive human genome analysis
Molecular Function Analysis	HORIKAWA Kazuki	
Epigenome Dynamics	TACHIBANA Makoto	Investigation of molecular mechanisms of epigenetic gene regulation
Pathology and Metabolome Research for Infectious Disease and Host Defense	KIDO Hiroshi	Medical Application of Proteases and Its Inhibitors, Mucosal Vaccination, Allergy, Mechanism of Influenza Virus Infection
Disease Proteomics	TANIGUCHI Hisaaki	Mass Spectrometry, Proteomics, Protein 3D-Structure
Molecular Immunology	MATSUMOTO Mitsuru	Autoimmune disease, Lymphoid organogenesis, Transgenic mouse, Knockout mouse
Molecular Neurobiology	SAKAGUCHI Suehiro	Prion protein signaling, Molecular pathogenesis of prion diseases, Prion vaccines
Molecular Genetics	SAITOH Tatsuya	Understanding and manipulation of inflammation
Enzyme Pathophysiology	FUKUI Kiyoshi	Translational Enzymology on D-Amino Acid Metabolism and Apoptosis Systems
Genomics	TANIGAMI Akira	
Space Medical Science	ISHIOKA Noriaki	
Imaging Probe Sciences	TAKAHASHI Kazuhiro	
Molecular Imaging Sciences	WATANABE Yasuyoshi	

Graduate School of Nutrition and Bioscience 栄養生命科学教育部

URL(<http://pub2.db.tokushima-u.ac.jp/ERD/organization/148408/index-en.html>)

Master Course 博士前期課程

Nutrition and Bioscience (人間栄養科学専攻)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Molecular Nutrition Science	MIYAMOTO Ken-ichi	Mineral and bone/kidney metabolism, Nutritional biochemistry of calcium, phosphorus and amino acids, Physiological regulation of phosphate transporters
Nutritional Physiology	NIKAWA Takeshi	Space biology, mechano-biology, and mitochondrial biology of skeletal muscle, Functional foods in space, Chrono-nutrition of skeletal muscle, Structural biology
Food Science	KAWAI Yoshichika	Molecular mechanism of oxidative stress-related chronic diseases, Physiological functions of dietary polyphenols and other antioxidants
Metabolic Nutrition Science	SAKAUE Hiroshi	Diabetes and cardiovascular disease, Exercise physiology, Adiposience, Clinical Nutrition
Preventive Environment Nutrition	TAKAHASHI Akira	Pathogenicity of Food poisoning bacteria
Clinical Nutrition and Food Management	TAKETANI Yutaka	Nutritional assessment and management of life-style related diseases, Evaluation and development of functional foods in humans, Metabolism of calcium / phosphorus / vitamin D and dietary management of ageing, osteoporosis and chronic kidney disease, Dietary habit and palatability
Public Health and Applied Nutrition	SAKAI Tohru	Nutritional Immunology, Mucosal Immunity, Tumor and Nutrition, Public Health Nutrition
Therapeutic Nutrition	HAMADA Yasuhiro	Research of nutrition support team, Clinical research for medical nutrition, Protein energy wasting in patients with chronic kidney disease

Doctoral Course 博士後期課程

Nutrition and Bioscience (人間栄養科学専攻)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Molecular Nutrition Science	MIYAMOTO Ken-ichi	Mineral and bone/kidney metabolism, Nutritional biochemistry of calcium, phosphorus and amino acids, Physiological regulation of phosphate transporters
Nutritional Physiology	NIKAWA Takeshi	Space biology, mechano-biology, and mitochondrial biology of skeletal muscle, Functional foods in space, Chrono-nutrition of skeletal muscle, Structural biology
Food Science	KAWAI Yoshichika	Molecular mechanism of oxidative stress-related chronic diseases, Physiological functions of dietary polyphenols and other antioxidants
Metabolic Nutrition Science	SAKAUE Hiroshi	Diabetes and cardiovascular disease, Exercise physiology, Adiposience, Clinical Nutrition
Preventive Environment Nutrition	TAKAHASHI Akira	Pathogenicity of Food poisoning bacteria
Clinical Nutrition and Food Management	TAKETANI Yutaka	Nutritional assessment and management of life-style related diseases, Evaluation and development of functional foods in humans, Metabolism of calcium / phosphorus / vitamin D and dietary management of ageing, osteoporosis and chronic kidney disease, Dietary habit and palatability
Public Health and Applied Nutrition	SAKAI Tohru	Nutritional Immunology, Mucosal Immunity, Tumor and Nutrition, Public Health Nutrition
Therapeutic Nutrition	HAMADA Yasuhiro	Research of nutrition support team, Clinical research for medical nutrition, Protein energy wasting in patients with chronic kidney disease

Graduate School of Health Sciences 保健科学教育部

URL(<http://pub2.db.tokushima-u.ac.jp/ERD/organization/131051/index-en.html>)

Master Course 博士前期課程

Health Sciences (保健学専攻)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Advanced Nursing	LOCSIN Rozzano	Technology and Caring in Nursing, Art and Aesthetics in Nursing, International Nursing Practice
	IWASA Yukie	Nursing education, Nursing physiology
	TANIOKA Tetsuya	Outcome Management, Psychiatric & Mental Health Nursing
Well-being Nursing	TAMURA Ayako	Adult nursing, Critical nursing, Rehabilitation nursing
	ONISHI Chiemi	Oncology nursing, Medical-surgical nursing
	IWAMOTO Saori	Public Health Nursing, Community Health Nursing
	OKUDA Kikuko	School nursing and health education
	TANI Hiroe	Child and family nursing, Family care nursing
Health and Medical Care	TOMOTAKE Masahito	Mental Health, Psychological Medicine
	MORI Kenji	Medicine on Developmental Disabilities
	KONDO Kazuya	Estimating QOL of the patients with cancer using patient related QOL questionnaire
Women's Health・Midwifery	KISHIDA Sachi	Women's health, Maternity nursing and fertility nursing
	HAKU Mari	Midwifery, Midwifery Education, Breastfeeding
	YASUI Toshiyuki	Reproductive Medicine, Perimenopausal Medicine
Medical Information Science and Engineering	YOSHINAGA Tetsuya	Medical image reconstruction, Biological engineering, Nonlinear dynamical system
	SAKAMA Minoru	Radioanalytical chemistry, nuclear chemistry and nuclear physics, radiological protection, environmental radioactivity
	MORITA Akinori	Radiation Biology, Molecular Oncology
Radiological Science	UENO Junji	Diagnostic Radiology, Body Imaging, Clinical Utility of 3-D Medical Images
	OTSUKA Hideki	Nuclear Medicine, Molecular Imaging, Magnetic Resonance in Medicine
	IKUSHIMA Hitoshi	Radiation Oncology, Radiation Therapy Technology
Advanced Medical Technology Science	ENDO Itsuro	Translational and clinical research for Endocrine disorder and Metabolic bone diseases
	KATAOKA Keiko	Commensal bacteria and human health, Host-bacteria interaction in opportunistic infection, Prebiotics and disease prevention
	KAGAWA Noriko	Human pathology, Progressive muscular dystrophy, Autopsy
	HOSOI Eiji	Genetic analysis of the ABO blood group, Mechanisms of expression of ABO blood group antigens, Ca ²⁺ signal transduction system in immune cells
	YASUI Toshiyuki	Reproductive Medicine, Perimenopausal Medicine
	KONDO Kazuya	Molecular research for thoracic malignancies-lung cancer, thymoma, etc

Doctoral Course 博士後期課程
Health Sciences (保健学専攻)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Lifelong Health Nursing	LOCSIN Rozzano	Technology and Caring in Nursing, Art and Aesthetics in Nursing, International Nursing Practice
	IWASA Yukie	Nursing education, Nursing physiology
	TAMURA Ayako	Adult nursing, Critical nursing, Rehabilitation nursing
	TANIOKA Tetsuya	Outcome Management, Psychiatric & Mental Health Nursing
	ONISHI Chiemi	Medical-Surgical nursing, Oncology nursing
	IWAMOTO Saori	Public Health Nursing, Community Health Nursing
	HAKU Mari	Midwifery, Development of Midwifery care model
	TANI Hiroe	Child and family nursing, Family care nursing
Lifelong Health and Medical Science	YASUI Toshiyuki	Reproductive Medicine, Perimenopausal Medicine
	TOMOTAKE Masahito	Mental Health, Psychological Medicine
	MORI Kenji	Medicine on Developmental Disabilities
	KONDO Kazuya	Molecular research for thoracic malignancies-lung cancer, thymoma, etc
Biomedical Information Sciences	YOSHINAGA Tetsuya	Medical image reconstruction, Medical engineering, Medical imaging equipment, Nonlinear dynamical system
	SAKAMA Minoru	Radioanalytical chemistry, nuclear chemistry and nuclear physics, radiological protection, environmental radioactivity
	IKUSHIMA Hitoshi	Radiation Oncology, Radiation Therapy Technology
	OTSUKA Hideki	Nuclear Medicine, Molecular Imaging, Magnetic Resonance in Medicine
	UENO Junji	Diagnostic Radiology, Body Imaging, Clinical utility of 3-D medical images
	MORITA Akinori	Radiation biology, Molecular oncology
Pathophysiological Laboratory Sciences	ENDO Itsuro	Translational and clinical research for Endocrine disorder and Metabolic bone diseases
	KATAOKA Keiko	Commensal bacteria and human health, Host-bacteria interaction in opportunistic infection, Probiotics and disease prevention
	KAGAWA Noriko	Human pathology, Progressive muscular dystrophy, Autopsy
	KONDO Kazuya	Molecular research for thoracic malignancies-lung cancer, thymoma, etc
	HOSOI Eiji	Genetic analysis of the ABO blood group, Mechanisms of expression of ABO blood group antigens, Ca ²⁺ signal transduction system in immune cells

Graduate School of Oral Sciences 口腔科学教育部

URL(<http://pub2.db.tokushima-u.ac.jp/ERD/organization/148409/index-en.html>)

Master's Course 博士前期課程

Oral Health Science (口腔保健学専攻)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Hygiene and Oral Health Science	HINODE Daisuke	Halitosis, Professional oral health care, Oral health promotion
Oral Health Care Education	IGA Hiroki	Oral care education, Development of educational system for dental hygienists
Oral Health Care Promotion	OZAKI Kazumi	Periodontal Medicine, Antibacterial material, OSCE method, ICT support services on oral care
Oral Health Care and Rehabilitation	MATSUYAMA Miwa	Gerodontology, Dysphagia Rehabilitation, Disability Oral Health, Oral Health Care and Oral Rehabilitation
Oral Health Science and Social Welfare	SHIRAYAMA Yasuhiko	Oral Health Care, Public Oral Health
Community Medical and Welfare	SHIRAYAMA Yasuhiko	Higher brain dysfunction, Burnout, Care burden

Doctor's Course 博士後期課程

Oral Health Science (口腔保健学専攻)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Hygiene and Oral Health Science	HINODE Daisuke	Halitosis, Professional oral health care, Oral health promotion
Oral Health Care Education	IGA Hiroki	Oral care education, Development of educational system for dental hygienists
Oral Health Care Promotion	OZAKI Kazumi	Periodontal Medicine, Antibacterial material, OSCE method, ICT support services on oral care
Oral Health Care and Rehabilitation	MATSUYAMA Miwa	Gerodontology, Dysphagia Rehabilitation, Disability Oral Health, Oral Health Care and Oral Rehabilitation
Oral Health Science and Social Welfare	SHIRAYAMA Yasuhiko	Oral Health Care, Public Oral Health
Community Medical and Welfare	SHIRAYAMA Yasuhiko	Higher brain dysfunction, Burnout, Care burden

Doctoral Course 博士課程

Oral Sciences (口腔科学専攻)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Oral and Maxillofacial Anatomy	BABA Otto	Gross anatomy of the head and neck, Development of teeth and periodontium, Preventive medicine by far infrared ray and antioxidant
Tissue-regeneration	YAMAMOTO Akihito	Protein phosphatases and cell differentiation, Apoptosis in osteoblastic cells
Molecular Oral Physiology	YOSHIMURA Hiroshi	Integration of oral sensory information, Aquaporins and exocrine function, Salivary gland and defense system of oral cavity
Molecular Biology	NOMA Takafumi	Energy metabolism, Cell differentiation & Development, Tissue regeneration, Applied stem cell technology
Oral Molecular Pathology	ISHIMARU Naozumi	Pathogenesis of autoimmunity and carcinogenesis
Oral Microbiology	FUJII Hideki (from July 1, 2017)	Oral bacteria, Pathogenesis, Antibiotic tolerance, Bacterial adherence

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Medical Pharmacology	YOSHIMOTO Katsuhiko	Endocrine tumors, Pancreatic islet β cells, Obesity, Saliva
Biomaterials and Bioengineering	HAMADA Kenichi	R & D of biomedical/dental alloys, ceramics and composite materials.
Preventive Dentistry	ITO Hiro-O	Saliva and mucosal immunity, Oxidative stress and oral health, Public dental health promotion
Conservative Dentistry	MATSUO Takashi	Cariology, Pulp pathology, Pathogenesis of apical and marginal periodontitis
Periodontology and Endodontology	to be appointed	Bone metabolism, Gingival overgrowth, Diagnostic indicators in periodontal disease, Diabetes and periodontitis
Oral and Maxillofacial Prosthodontics	ICHIKAWA Tetsuo	Removable Prosthodontics, Gerodontology, Oral Implantology, CAD/CAM technology, Food oral processing
Stomatognathic Function and Occlusal Reconstruction	MATSUKA Yoshizo	Fixed Prosthodontics, Jaw movement, Occlusion, Temporomandibular disorders, Neurobiology
Oral Medicine	AZUMA Masayuki	Cell biology, Bone metabolism, Functional regeneration of salivary glands, Prevention of cancer development
Oral Surgery	MIYAMOTO Youji	Oncology, Molecular target treatment for oral cancer, Oral surgery, Regenerative medicine, Biomaterials, Dental implant
Orthodontics and Dentofacial Orthopedics	TANAKA Eiji	Craniofacial growth and development, Biological response to mechanical stress, Bone cell biology
Pediatric Dentistry	IWAMOTO Tsutomu	Tooth and craniofacial development, Dental pulp stem cell research
Oral and Maxillofacial Radiology	HONDA Eiichi	Digital radiography, Image analysis, Interpretation of oral lesions by CT or MRI
Dental Anesthesiology	KITAHATA Hiroshi	Myocardial protection, Role of sirtuin in anesthetic preconditioning, Angiogenesis and anesthetics
Comprehensive Dentistry	KAWANO Fumiaki	Biomechanics, Biomaterials, Occlusal schemes of prosthesis, Sleep Bruxism

Graduate School of Pharmaceutical Sciences 薬科学教育部

URL(<http://pub2.db.tokushima-u.ac.jp/ERD/organization/148357/index-en.html>)

Master Course 博士前期課程

Pharmaceutical Chemistry (創薬科学専攻)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Analytical Science	TANAKA Hideji	Flow-based analysis (Flow injection analysis, Feedback-based flow ratiometry, Amplitude-modulated flow analysis), Analysis of aquatic environment
Molecular Physical Pharmaceutics	OKUHIRA Keiichiro (Associate Professor)	Biophysical chemistry, Structure and function of apolipoproteins, lipoproteins, lipid transporters
Molecular Medicinal Chemistry	SANO Shigeki	Organic chemistry, Medicinal chemistry, Functionalized heterocycles, Bioactive Compounds
Molecular Design and Synthesis	OTAKA Akira	Peptide & Protein Chemistry, Peptide-based chemical biology, Bioorganic medicinal chemistry
Pharmaceutical Organic Chemistry	YAMADA Ken-ichi	Organic synthesis, Methodology development, Asymmetric synthesis
Pharmacognosy	KASHIWADA Yoshiki	Natural products chemistry, Bioactive natural products from plants and marine organisms, Pharmacognosy, Ethnobotany
Synthetic Organic Chemistry	NAMBA Kosuke	Total synthesis, Practical synthesis, Molecular probes

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Bioorganic Chemistry	MINAKAWA Noriaki	Nucleic acid chemistry, Nucleoside, Nucleotide, Oligonucleotide, Medicinal chemistry
Medicinal Biotechnology	ITOU Kouji	Medicinal biotechnology, Molecular and cell biology, Human molecular genetics, Genetical metabolic diseases, Gene and cell therapy, Medicinal resources from natural products
Clinical Pharmacology	TAKIGUCHI Yoshiharu	Pharmacotherapeutic design, Drug evaluation method, Drug interaction, Drug monitoring, Ischemia-reperfusion injury, Oxidative stress
Pharmaceutical Information Science	YAMAUCHI Aiko	Drug informatics, Computational clinical toxicology, Structure-based risk assessment, Pharmacoepidemiologic study.
Pharmacokinetics and Biopharmaceutics	ISHIDA Tatsuhiro	Drug delivery with liposome, Tumor targeting, Pharmacokinetic, Innate immunity to nanocarriers Drug delivery with albumin, Antioxidants, Nitric Oxide, Reactive sulfur
Neurobiology and Therapeutics	KASAHARA Jiro (Associate Professor)	Pathophysiological analysis of Parkinson's Disease, ischemia/reperfusion-induced neurodegeneration, depression, and development of novel therapeutics for them.
Molecular & Cellular Pharmacology	FUJINO Hiromichi	Understanding of the molecular & cellular pharmacology of G protein coupled receptors (GPCRs) is one of the goals for our research. To understand roles of prostanoid receptor signaling in cancer malignancy, especially in the early stages of development as well as the alternative functions of endogenous prostanoids as biased ligands are the main researches. Histamine H1 receptors, their signaling and gene expression in allergy are also studying.
Medical Pharmacology	TSUCHIYA Koichiro	Electron paramagnetic resonance, Free radicals, Nitric oxide, Oxidative stress, I-R Stress, Nitrite metabolism
Molecular Cell Biology Medicine	YAMAZAKI Tetsuo	Cell Biology, Immunology, Signaling properties of the endoplasmic reticulum and mitochondria
Pharmaceutical Health Chemistry	KOGURE Kentaro	Antioxidants, Biomembranes, Cytoplasmic delivery by electric treatment, Mass spectrometry of lipids, Bioactive phospholipid
Clinical Pharmacy Practice Pedagogy	KUME Tetsuya	Evaluation of risk factors for adverse drug reactions, Clinical pharmacy education, Cancer immunotherapy
Physical Pharmacy	UENO Satoru (Associate Professor)	Membrane interaction of polypeptides and macromolecules
Natural Products Chemistry	OOI Takashi (Associate Professor)	Isolation and structure elucidation of bioactive natural products especially from marine organisms
Medicinal Biochemistry	SHINOHARA Yasuo	Studies on the regulation of energy metabolism and mitochondrial functions

Doctoral Course 博士後期課程

Pharmaceutical Chemistry (創薬科学専攻)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Synthetic Organic Chemistry	NAMBA Kosuke	Total synthesis, Practical synthesis, Molecular probes
Molecular Physical Pharmaceutics	OKUHIRA Keiichiro (Associate Professor)	Biophysical chemistry, Structure and function of apolipoproteins, lipoproteins, lipid transporters
Analytical Science	TANAKA Hideji	Flow-based analysis (Flow injection analysis, Feedback-based flow ratiometry, Amplitude-modulated flow analysis), Analysis of aquatic environment
Bioorganic Chemistry	MINAKAWA Noriaki	Nucleic acid chemistry, Nucleoside, Nucleotide, Oligonucleotide, Medicinal chemistry

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Pharmaceutical Organic Chemistry	YAMADA Ken-ichi	Organic synthesis, Methodology development, Asymmetric Synthesis
Pharmacognosy	KASHIWADA Yoshiki	Natural products chemistry, Bioactive natural products from plants and marine organisms, Pharmacognosy, Ethnobotany
Medicinal Biotechnology	ITOU Kouji	Medicinal biotechnology, Molecular and cell biology, Human molecular genetics, Genetical metabolic diseases, Gene and cell therapy, Medicinal resources from natural products
Molecular Medicinal Chemistry	SANO Shigeki	Organic chemistry, Medicinal chemistry, Functionalized heterocycles, Bioactive Compounds
Molecular & Cellular Pharmacology	FUJINO Hiromichi	Understanding of the molecular & cellular pharmacology of G protein coupled receptors (GPCRs) is one of the goals for our research. To understand roles of prostanoid receptor signaling in cancer malignancy, especially in the early stages of development as well as the alternative functions of endogenous prostanoids as biased ligands are the main researches. Histamine H1 receptors, their signaling and gene expression in allergy are also studying.
Molecular Design and Synthesis	OTAKA Akira	Peptide & Protein Chemistry, Peptide-based chemical biology, Bioorganic medicinal chemistry
Pharmaceutical Health Chemistry	KOGURE Kentaro	Antioxidants, Biomembranes, Cytoplasmic delivery by electric treatment, Mass spectrometry of lipids, Bioactive phospholipid
Physical Pharmacy	UENO Satoru (Associate Professor)	Membrane interaction of polypeptides and macromolecules
Natural Products Chemistry	OOI Takashi	Isolation and structure elucidation of bioactive natural products especially from marine organisms
Medicinal Biochemistry	SHINOHARA Yasuo	Studies on mitochondrial functions and regulation of energy metabolism

Doctoral Course 博士課程

Pharmaceutical Life Sciences (薬学専攻)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Clinical Pharmacology	TAKIGUCHI Yoshiharu	Pharmacotherapeutic design, Drug. evaluation method, Drug interaction, Drug monitoring, Ischemia-reperfusion injury, Oxidative stress
Pharmaceutical Information Science	YAMAUCHI Aiko	Drug informatics, Computational clinical toxicology, Structure-based risk assessment, Pharmacoepidemiologic study.
Pharmacokinetics and Biopharmaceutics	ISHIDA Tatsuhiko	Drug delivery with liposome, Tumor targeting, Pharmacokinetic, Innate immunity to nanocarriers Drug delivery with albumin, Antioxidants, Nitric oxide, Reactive sulfur
Neurobiology and Therapeutics	KASAHARA Jiro (Associate Professor)	Pathophysiological analysis of Parkinson's Disease, ischemia/reperfusion-induced neurodegeneration, depression, and development of novel therapeutics for them.
Medical Pharmacology	TSUCHIYA Koichiro	Electron paramagnetic resonance, Free radicals, Nitric oxide, Oxidative stress, I-R Stress, Nitrite metabolism
Molecular Cell Biology Medicine	YAMAZAKI Tetsuo	Cell Biology, Immunology, Signaling properties of the endoplasmic reticulum and mitochondria
Clinical Pharmacy Practice Pedagogy	KUME Tetsuya	Evaluation of risk factors for adverse drug reactions, Clinical pharmacy education, Cancer immunotherapy

Graduate School of Advanced Technology and Science 先端技術科学教育部

URL(<http://pub2.db.tokushima-u.ac.jp/ERD/organization/124873/index-en.html>)

Master Course 博士前期課程

Civil and Environmental Engineering (建設創造システム工学コース)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Structural Engineering	HASHIMOTO Chikanori	High performance of concrete machine with help of the visualization technique of fresh concrete
	NAGAO Fumiaki	Wind resistant design, Wind disaster, Wind environment
	NARIYUKI Yoshifumi	Earthquake disaster prevention of city and region, seismic design and life extension of road bridge
Environmental Conservation Engineering	NAKANO Susumu	Natural disaster risk management, Business continuity management
	KAMADA Mahito	Conservation and restoration of regional ecosystems
	MUTO Yasunori	Fluvial Process on Environment Restoration and Disaster Mitigation
	KOZUKI Yasunori	Study on Coexistence of People and Nature (Nature Conservation and Disaster Mitigation)
Geotechnical and Geoenvironmental Engineering	BABA Toshitaka	Seismogenic process of the subduction zone earthquakes and Tsunami prediction
Planning and Design Systems Engineering for Infrastructures	YAMANAKA Hideo	Transport planning and road design for safety, elderly, disabled, and environment
	TAKEUCHI Toshiki	High Precision Numerical Computation
	UEDA Takao	Durability evaluation and rehabilitation techniques of concrete structures
	OGAWA Hiroki	Architectural planning and design for dwellings and public facilities
	OHYAMA Yousuke	Classical analysis on nonlinear integrable systems

Mechanical Engineering (機械創造システム工学コース)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Mechanical Science	TAKAGI Hitoshi	Development of environment-friendly ecomaterials
	OKADA Tatsuya	Plasticity and recrystallization of metal single- and bi-crystal
	NISHINO Hideo	Ultrasonic material measurement and evaluation
Mechanical Systems	HASEZAKI kazuhiko	Fundamental research of Space Solar Power System (SSPS)
	DEGUCHI Yoshihiro	Development of energy and environmental devices using laser diagnostics
	KIDOGUCHI Yoshiyuki	Combustion Improvement and Reduction of Exhaust Emissions
	OHTA Mitsuhiro	Gas-liquid/liquid-liquid two-phase flows and non-Newtonian fluid dynamics
	MATSUMOTO Takeshi	Biomedical engineering approach to study bone/microcirculation-related diseases
	ICHIMIYA Masashi	Laminar-turbulent transition in fluid flow
Intelligent Machines	IWATA Tetsuo	Instrumentation for scientific measurements
	HINO Junichi	Dynamic design and vibration control of machinery
	TAKAIWA Masahiro	Development of Human Support Robot System

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Production Systems Engineering	YASUI Takeshi	Intelligent terahertz instrumentation and biomedical optics
	ISHIDA Tohru	Development of EDM system for fabricating complicatedly shaped holes
	NAKAMURA Koichi	NMR and ultrasonic studies on materials for energy devices
	YONEKURA Daisuke	Surface engineering for functional materials

Chemical Science and Technology (化学機能創生コース)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Synthetic and Polymer Chemistry	KAWAMURA Yasuhiko	Organic photochemical reactions, electron-transfer reactions, and chemical modification of carbon allotropes such as fullerenes
	UTE Kohichi	Synthesis and characterization of polymers with controlled structure
	IMADA Yasushi	Development of environmentally friendly Synthetic method
	MINAGAWA Keiji	Synthesis and property of stimuli-responsive and other functional materials
Physicochemistry and Material Science	TAKAYANAGI Toshio	Development of analytical and separation methods on the basis of chemical affinity
	YASUZAWA Mikito	Research and development of biosensors and biomaterials
	MIYOSHI Hirokazu	Functionalization of nanoparticles by radioisotopes
	OKAMURA Hidekazu	Infrared and optical studies of solid material
Chemical Process Engineering	SUGIYAMA Shigeru	Development of advanced materials for catalysts and environmental cleanup
	MORIGA Toshihiro	Materials chemistry on oxynitride/oxide semiconductors and phosphors
	SOTOWA Ken-Ichiro	Application of microreactor technology

Biological Science and Technology (生命テクノサイエンスコース)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Biological Functions	MATSUKI Hitoshi	Biophysicochemical study on aggregate systems of amphiphilic molecules
	UTO Yoshihiro	Study on medicinal chemistry of anticancer drugs based on developing egg
	NAGAMUNE Hideaki	Study on function of microbial toxins and their application in medicine and cell technology
Biological Reactions	TSUJI Akihiko	Study on post-translational regulation of enzyme activity
	SAKURADANI Eiji	Study on screening of unique reactions for lipid conversion and microbial production of useful lipids
	NAKAMURA Yoshitoshi	Study on effective utilization of biomass and environmental bioremediation technology

Electrical and Electronic Engineering (電気電子創生工学コース)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Material and Device Science	NAGASE Masao	Study on graphene
	NAOI Yoshiki	New advanced materials, nano structure and photonic devices

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Electric Energy Engineering	SHIMOMURA Naoyuki	Applications of pulsed power and discharge plasma, visible environment design
	YASUNO Takashi	Intelligent systems (robotic systems, human friendly motion control systems, renewable energy systems)
	HOJO Masahide	Analysis and control of modern and advanced power system
	KAWADA Masatake	Diagnostic techniques for power equipment, measurement of electromagnetic waves, computational electromagnetics, signal processing
Electrical and Electronic Systems	TAKADA Atsushi	Optical fiber transmission, optical signal processing
	KUBO Tomohiro	Control of time-delay and distributed-parameter systems
	OIE Takahiro	UWB communication and Internet telecommunication
	TAKAHASHI Hiroki	Number theory and applications of algebraic systems
Intelligent Networks and Computer Science	HASHIZUME Masaki	Design and test of electronic circuits
	SHIMAMOTO Takashi	Research on CAD algorithms for VLSI layout design
	NISHIO Yoshifumi	Nonlinear circuit technology, chaos engineering, cognitive engineering

Information Science and Intelligent Systems (知能情報システム工学コース)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Information Science	REN Fuji	Research on language understanding and knowledge-intelligence engineering
	KITA Kenji	Research on multimedia information retrieval
	ONO Norihiko	Emergent Design of Intelligent Systems
	UETA Tetsushi	Bifurcation problems and visualization of nonlinear dynamical system
	MATSUURA Kenji	Research on Multimedia Applications and ICT Infrastructure
	KITAOKA Norihide	Research on speech information processing and human-machine interaction
Intelligent Systems	FUKUMI Minoru	Softcomputing and Signal Processing
	TERADA Kenji	Research on image processing and computer vision
	KINOSHITA Kazuhiko	Research on information network
	FUKETA Masao	Natural language processing and information retrieval
	SHISHIBORI Masami	Research on multimedia information retrieval techniques

Optical Systems Engineering (光システム工学コース)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Optical Materials and Devices	HARAGUCHI Masanobu	Photon localization in nano-scale plasmonic structure and its application
	KISHIMOTO Yutaka	Research on the electronic states of strong coupling superconductors
	FURUBE Akihiro	Advanced laser spectroscopy for optical nanomaterials
Optical Information Systems	SUYAMA Shiro	Information display system & 3D display system
	GOTO Nobuo	Study on optical communications and optical information networks
	KAWATA Yoshiki	Medical image processing, Intelligent computer-aided diagnosis (CAD) system

Nano-Materials Technology (フロンティア研究センター寄付講座)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Nano-Materials Technology Nichia Contribution Laboratory	KITADA Takahiro	Fabrication of semiconductor quantum nanostructures and its device application

Doctoral Course 博士後期課程

Civil and Environmental Engineering (建設創造システム工学コース)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Structural Engineering	HASHIMOTO Chikanori	High performance of concrete machine with help of the visualization technique of fresh concrete
	NAGAO Fumiaki	Wind resistant design, Wind disaster, Wind environment
	NARIYUKI Yoshifumi	Earthquake disaster prevention of city and region, seismic design and life extension of road bridge
Environmental Conservation Engineering	NAKANO Susumu	Natural disaster risk management, Business continuity management
	KAMADA Mahito	Conservation and restoration of regional ecosystems
	MUTO Yasunori	Fluvial Process on Environment Restoration and Disaster Mitigation
	KOZUKI Yasunori	Study on Coexistence of People and Nature (Nature Conservation and Disaster Mitigation)
Geotechnical and Geoenvironmental Engineering	BABA Toshitaka	Seismogenic process of the subduction zone earthquakes and Tsunami prediction
Planning and Design Systems Engineering for Infrastructures	YAMANAKA Hideo	Transport planning and road design for safety, elderly, disabled, and environment
	TAKEUCHI Toshiki	High Precision Numerical Computation
	UEDA Takao	Durability evaluation and rehabilitation techniques of concrete structures
	OGAWA Hiroki	Architectural planning and design for dwellings and public facilities
	OHYAMA Yousuke	Classical analysis on nonlinear integrable systems

Mechanical Engineering (機械創造システム工学コース)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Mechanical Science	TAKAGI Hitoshi	Development of environment-friendly ecomaterials
	OKADA Tatsuya	Plasticity and recrystallization of metal single-and bi-crystal
	NISHINO Hideo	Ultrasonic material measurement and evaluation
Mechanical Systems	HASEZAKI kazuhiko	Fundamental research of Space Solar Power System (SSPS)
	DEGUCHI Yoshihiro	Development of energy and environmental devices using laser diagnostics
	KIDOGUCHI Yoshiyuki	Combustion Improvement and Reduction of Exhaust Emissions
	OHTA Mitsuhiro	Gas-liquid / liquid-liquid two-phase flows and non-Newtonian fluid dynamics
	MATSUMOTO Takeshi	Biomedical engineering approach to study bone/ microcirculation-related diseases
	ICHIMIYA Masashi	Laminar-turbulent transition in fluid flow

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Intelligent Machines	HINO Junichi	Dynamic design and vibration control of machinery
	TAKAIWA Masahiro	Development of Human Support Robot System
Production Systems Engineering	YASUI Takeshi	Intelligent terahertz instrumentation and biomedical optics
	ISHIDA Tohru	Development of EDM system for fabricating complicatedly shaped holes
	NAKAMURA Koichi	NMR and ultrasonic studies on materials for energy devices
	YONEKURA Daisuke	Surface engineering for functional materials

Chemical Science and Technology (化学機能創生コース)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Synthetic and Polymer Chemistry	KAWAMURA Yasuhiko	Organic photochemical reactions, electron-transfer reactions, and chemical modification of carbon allotropes such as fullerenes
	UTE Kohichi	Synthesis and characterization of polymers with controlled structure
	IMADA Yasushi	Development of environmentally friendly Synthetic method
	MINAGAWA Keiji	Synthesis and property of stimuli-responsive and other functional materials
Physicochemistry and Material Science	TAKAYANAGI Toshio	Development of analytical and separation methods on the basis of chemical affinity
	YASUZAWA Mikito	Research and development of biosensors and biomaterials
	MIYOSHI Hirokazu	Functionalization of nanoparticles by radioisotopes
	OKAMURA Hidekazu	Infrared and optical studies of solid material
Chemical Process Engineering	SUGIYAMA Shigeru	Development of advanced materials for catalysts and environmental cleanup
	MORIGA Toshihiro	Materials chemistry on oxynitride / oxide semiconductors and phosphors
	SOTOWA Ken-Ichiro	Application of microreactor technology

Biological Science and Technology (生命テクノサイエンスコース)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Biological Functions	MATSUKI Hitoshi	Biophysicochemical study on aggregate systems of amphiphilic molecules
	UTO Yoshihiro	Study on medicinal chemistry of anticancer drugs based on developing egg
	NAGAMUNE Hideaki	Study on function of microbial toxins and their application in medicine and cell technology
Biological Reactions	TSUJI Akihiko	Study on post-translational regulation of enzyme activity
	SAKURADANI Eiji	Study on screening of unique reactions for lipid conversion and microbial production of useful lipids
	NAKAMURA Yoshitoshi	Study on effective utilization of biomass and environmental bioremediation technology
	OTOI Takeshige	Studies on the production of valuable animals

Electrical and Electronic Engineering (電気電子創生工学コース)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Material and Device Science	NAGASE Masao	Study on graphene
	NAOI Yoshiki	New advanced materials, nano structure and photonic devices
Electric Energy Engineering	SHIMOMURA Naoyuki	Applications of pulsed power and discharge plasma, visible environment design
	YASUNO Takashi	Intelligent systems (robotic systems, human friendly motion control systems, renewable energy systems)
	HOJO Masahide	Analysis and control of modern and advanced power system
	KAWADA Masatake	Diagnostic techniques for power equipment, measurement of electromagnetic waves, computational electromagnetics, signal processing
Electrical and Electronic Systems	TAKADA Atsushi	Optical fiber transmission, optical signal processing
	KUBO Tomohiro	Control of time-delay and distributed-parameter systems
	TAKAHASHI Hiroki	Number theory and applications of algebraic systems
Intelligent Networks and Computer Science	HASHIZUME Masaki	Design and test of electronic circuits
	SHIMAMOTO Takashi	Research on CAD algorithms for VLSI layout design
	NISHIO Yoshifumi	Nonlinear circuit technology, chaos engineering, cognitive engineering

Information Science and Intelligent Systems (知能情報システム工学コース)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Information Science	REN Fuji	Research on language understanding and knowledge-intelligence engineering
	KITA Kenji	Research on multimedia information retrieval
	UETA Tetsushi	Bifurcation problems and visualization of nonlinear dynamical system
	MATSUURA Kenji	Research on Multimedia Applications and ICT Infrastructure
	KITAOKA Norihide	Research on speech information processing and human-machine interaction
Intelligent Systems	FUKUMI Minoru	Softcomputing and Signal Processing
	TERADA Kenji	Research on image processing and computer vision
	KINOSHITA Kazuhiko	Research on information network
	FUKETA Masao	Natural language processing and information retrieval
	SHISHIBORI Masami	Research on multimedia information retrieval techniques

Optical Systems Engineering (光システム工学コース)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Optical Materials and Devices	HARAGUCHI Masanobu	Photon localization in nano-scale plasmonic structure and its application
	KISHIMOTO Yutaka	Research on the electronic states of strong coupling superconductors
	HASHIMOTO Shuichi	Photochemistry in micro-nanosystems and laser nanofabrication
	FURUBE Akihiro	Advanced laser spectroscopy for optical nanomaterials

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Optical Information Systems	SUYAMA Shiro	Information display system & 3D display system
	NIKI Noboru	Medical images, Medical information system
	GOTO Nobuo	Study on optical communications and optical information networks

Nano-Materials Technology (フロンティア研究センター寄付講座)

Field of Research 研究分野	Faculty 担当教員	Detailed Description of Research Field 研究内容
Nano-Materials Technology Nichia Contribution Laboratory	KITADA Takahiro	Fabrication of semiconductor quantum nanostructures and its device application

International Center 国際センター

URL(<http://www.isc.tokushima-u.ac.jp/english/>)

Faculty 教員名	Main Research Field / Job Contents 担当分野
JIN Cheng-hai	Numerical Analysis, Advising for International Students
MISUMI Gehrtz Tomoko	Japanese Language and Culture Education
SAKATA Hiroshi	Intercultural Communication Studies, Support for Japanese Students' Study Abroad
HASHIMOTO Satoshi	Japanese Language and Culture Education
NAITO Takeshi	Retina and Vitreous, Ocular Infection, International Cooperation
TRAN Hoang Nam	Academic Globalization, Advising for International Students
FUKUOKA Yuko	Japanese Language Education, Study Abroad Promotion