

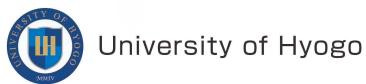
Contact Information for Researches Map



Institute for Innovation and Social Value Creation, University of Hyogo, Hyogo Public University Corporation

Jibasan-building 3F, 123 Minami-ekimae-cho, Himeji, Hyogo 670-0962, JAPAN TEL: 079(283)4560 FAX: 079(283)4561 https://uh-sangaku.jp/english E-mail:sangaku@hq.u-hyogo.ac.jp







University of Hyogo Researcher Information https://www-cv01.ufinity.jp/u_hyogo/?lang=en



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Technology

Schools & Institutes

Eng: Engineering

Sci: Science Hse: Human Science and Environment

Nas: Nursing Art and Science Ins: Information Science Ss: Social Sciences

Rrm: Regional Resources Management Ldm: Landscape Design and Management Drg: Disaster Resilience and Governance

Ast: Advanced Science and Technology for Industry Nes: Natural and Environmental Sciences Npc: Nursing Care for People and Community Ame: Advanced Medical Engineering Research Institute Lai: Library and Academic Information Svc: Institute for Innovation and Social Value Creation

Manufacturing

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	Dissimilar material welding by friction heat for
	multi-material structure
	Interface strength evaluation of connecting join

▶ Hydrogen analysis and structure analysis of electrochemically deposited metal films Development of magnetized coaxial plasma guns to eject

high-speed, high-density plasmoids, and its applications Fukumoto, Naoyuki, Eng ▶ Derivation and design of soft-switching mathematical model for RF supply

Study on liquid atmization process Development of in-situ analytical technique using

laser-induced breakdown spectroscopy

Kimura, Masaaki, Eng Kusaka, Masahiro, Eng

Fukumuro, Naoki, Eng

Osato, Tatsuki, Eng Takagaki, Naohisa, Eng

Matsumoto, Ayumu, Eng

▶ Fault diagnosis and fault tolerant control for input redundant systems ▶ Deep drawing of functional material, shot peening process

Mechanical models of soft solids and structures ▶ Control of measurement instruments in particle accelerators

▶ Organic reaction chemistry Development of organic reactions

▶ Development of functional organic compounds Development of organoelement compounds

> 3D Additive Manufacturing at Research Center for Advanced Metallic Materials

Kawaguchi, Natsuki, Eng Harada, Yasunori, Eng Tanaka, Hiro, Eng Hashimoto, Satoshi, Ast Fujita, Morifumi, Sci Shimogaki, Mio. Sci Miyake, Yoshihiro, Sci

Takeuchi, Akira, Svc

Ago, Tomohiro, Sci

Ferrous and non-ferrous metal materials

Microstructure observation in metals by using synchrotron	
radiation	Adachi, Hiroki, Eng
High strength and high ductility for steels	Tsuchida, Noriyuki, Eng

Mechanical properties in titanium alloy at elevated temperature

Ito, Atsushi, Eng ▶ Superconducting material Okai, Daisuke, Eng

New materials

Preparation and characterization of thin solid films	Inoue, Shozo, E
Synthesis and properties of functional ceramics	Kikuchi, Takeyuki, E
Synthetic chemistry for organic electronics	Nishida, Jun-ichi, E
Development and evaluation of the metallic biomedical	
materials	Miura-Fujiwara, Eri, E
Mechanics of graphene	Inui, Norio, E
Photoresponsive polymers, self-organaized materials	Kawatsuki, Nobuhiro, E
Photoinduced change in physisical properties of polymer films	Kondo, Mizuho, E
▶ High performance, multi-functional polymer composites	Kishi, Hajime, E
Fabrication and evaluation of super-hard thin films	Tanaka, Ippei, E

▶ Development of membrane materials using biomembrane structure

Taguchi, Shogo, Eng

Application of nanomaterials as lubricant Development of Organic- and Nano-materials for

Light-Energy Conversion Applications Umevama, Tomokazu, Eng Development of organic- and nano-materials based

on non-covalent interaction Synthesis and Functionalization of three-dimensional

 π -electron molecules

▶ Development of novel multifunctional materials based on molecular materials

Suzuki, Wataru, Eng

Inoue, Ryo, Sci

Matsumoto, Naohiro, Eng

Kubo, Kazuya, Sci

Machining and measurements

Application of control engineering and signal processing Improvement of rolling contact fatigue life ▶ Atmospheric pressure plasma surface treatment and insulation technology of high voltage equipment Application of fractional calculus and nonlinear dynamics Measurement and control for mechanical engineering Nano-processing with gas cluster ion beams

Kuroda, Masaharu, Eng Development of nano-processing by gas cluster ion beams Takeuchi, Masaya, Eng Study on support system for transfer of scraping skill Nunobiki, Masayuki, Eng

Araki, Nozomu, Eng Abo, Masayoshi, Eng

Kikuchi, Yusuke, Eng Konishi, Yasuo, Eng Toyoda, Noriaki, Eng

▶ MEMS technologies and sensing systems ▶ Bio-inspired Robotics and Control

Friction and wear measurements from nano- to microscale, and applications of nanomaterials as friction additives ▶ Microstructure analysis of friction interface

Development of cavitation bubble plasma device and its application

▶ Characterization of pulse discharge properties and its application ► Terahertz Science and Technology

Tanaka, Serina, Eng Oka, Yoshihiro, Eng Okada, Sho, Eng Arikawa, Takashi, Eng

Maenaka Kazusuke Eng

Tsunoda, Yusuke, Eng

Kinoshita, Hiroshi, Eng

Advanced device technologies

Microelectromechanical systems based on piezoelectric thin films Kanda, Kensuke, Eng Processing of fine particles and functional inorganic fibers Organic electronics ▶ Electrochemical production of metal films and nanoparticles, and those applications

Iimura, Kenji, Eng Tada, Kazuya, Eng Yae, Shinji, Eng

▶ Electrodeposition of functional alloy films from non-aqueous solution

Preparation of novel material using polymer

Yamamoto, Hiroaki, Eng Yusa, Shin-ichi, Eng

Nakamura, Tomomichi, Ins

Numata, Ryusuke, Ins

Application of simulation

▶ Optical circuit simulation and optimal design Dynamic behavior analysis of bio-molecules using molecular simulation

▶ Effective utilization of supercomputers for material science Visualization of numerical data

Morimoto, Keita, Eng

Hayashi, Haruhisa, Lai Nakano, Hiroki, Sci Ohno, Nobuaki, Ins

Nonlinear data analysis

Large scale simulation of plasma dynamics Modeling and simulation for complex fluids

Interface science in nano-micro scale ▶ Highly realistic VR (virtual reality) technology and VR

Yasuda, Shugo, Ins Washizu, Hitoshi, Ins technology to support urban development

Shibano, Nobuyuki, Svc

01

Information communications

Internet of things, Network communication technologies

- ▶ High-speed light modulators and their applications
- ▶ High-performance microwave passive circuits

Enokihara, Akira, Eng Kawai, Tadashi, Eng

- ▶ Evaluation of electromagnetic wave absorber and shielding material ▶ Future communication architecture and applied
- Yamamoto, Shinichiro, Eng

Kurihara, Jun, Ins

Artiicial intelligence, Information systems

- Development of automatic tracking system for the analysis of animal behaviors
- ▶ Applied cryptgraphy and information security Information design based on search technologies
- Information analysis and search on the web
- Data analysis and pattern recognition
- Kimura, Toshifumi, Hse Isobe, Takanori, Ins Ohshima, Hiroaki, Ins
- Machine learning, behavior analysis, interaction/time-series modeling
 - Image processing and pattern recognition ▶ Human intention/emotion estimation and their applications to robots ▶ Analysis of Plant Leaves using Image Recognition

Kawashima Hiroaki Ins Hiura, Shinsaku, Eng

Yamazoe, Hirotake, Eng Okuda, Moeri, Eng

Hagiya, Kenji, Sci

Yamane, Yu, Sci

Fujii, Takuto, Sci

Miki, Kazushi, Eng

Setoura, Kenji,Eng

Sato, Seiichi, Sci

Kitatani, Motoharu, Sci

Takeuchi, Satoshi, Sci.

Nanotechnology

Microfabrication and characterization

- ▶ Beam induced surface reaction, Secondary ion mass spectrometry Moritani, Kousuke, Eng Modulation of the Physical Properties of Functional Oxide Materials by Precision Processings
- Development of photo- and redox functions of multimetallic coordination complexes and supramolecular assemblies Development of magnetic and luminescent chemistry in
- chiral multinuclear metal complexes ▶ Chemical crystallography of photo-luminescent transition metal complexes
- Osaka, I., Ai, Eng

Yumoto, Takavuki, Ins

Rashed, Essam, Ins.

- Abe, Masaaki, Sci
- Takahara, Kazuma, Sci Ozawa, Yoshiki, Sci
- ▶ Photochemisitry and analysis using soft X-ray Identification of crystalline materials by using micro-area diffraction
- single molecules Development of single-molecule spectroscopic system
- using scanning tunneling microscopy
- Gejo, Tatsuo, Sci
- Development of ultrafast spectroscopic methods for

Aiga Norihiro Sci

Superconductivity, Magnetic materials

- ▶ Theoretical study on strongly correlated electron systems
- Numerical computations for condensed matter physics
- ▶ Computational simulation study on quantum strongly correlated systems
- Investigation on magnetism and superconductivity in

Nanostructure devices

Creation of dye-nanoarray using DNA

by soft X-ray spectroscopy

metal oxide/Si heterojunction

substrate

- materials under high pressure and low temperature
- > Study of the mechanism of magnetism and superconductivity

▶ Preparation of ferroelectric thin films and their applications

▶ Fabrication of nanostructures and their characterization

▶ Elucidation of physical properties and device applications of

> Synthesis of 2D materials and device applications

Nanobiodevice that works with membrane proteins on a Si

- ▶ Elucidation and control of superconductivity, magnetism and thermoelectric properties
- Suga, Seiichiro, Eng Suzuki, Takafumi, Eng

Kobayashi, Hisao, Sci

- Sakai, Toru, Sci

 - Investigation on magnetism and metal-insulator transition Quantum material properties under extreme conditions
 - Microscopic study of topological properties
- ▶ Search for new superconductivity and magnetism Miyasaka, Shigeki, Sci ▶ Low-temperature thermal properties in strongly
- correlated electron systems ▶ Magnetism and superconductivity of strongly correlated materials Measurment and evaluation technique of nano-magnets
 - Yamaguchi, Akira, Sci. Nagasawa, Nobumoto, Sci Kawachi Shiro Sci
- Nakai, Yusuke, Sci

Heva, Akira, Eng

Honda, Shin-ichi, Eng

Sumitomo Koji Eng

Fujitani, Kajto, Eng

Fujisawa, Hironori, Eng

Nakamura, Mitsunobu, Eng

Mito Takeshi Sci

- Doping process development of semiconductors and its chracterization at synchrotron radiation facilities
- ▶ Development of functional materials using nanoparticles Organic Plasmonics and its application for optoelectronic devices
- ▶ Evaluation of optical and thermal properties of plasmonic nanostructures
- ▶ Separation of semiconducting carbon nanotubes and their applications
- ▶ Control of the physical properties of organic and inorganic two-dimensional materials by electric field effect
- Komino, Takeshi, Sci.
- ▶ 2D materials-ferroelectrics composite electronic devices
- Fuiii, Shuniiro, Eng Nakajima, Sejji, Eng
- Eguchi, Ritsuko, Sci

Nakanishi, Koji, Ast

Yamakawa, Shinii, Ast.

Matsuura, Hiroaki, Sci

Pan, Zhenhua, Eng

Amano Sho Ast

Application of synchrotron radiation

- Soft X-ray analysis of functional materials
- ▶ Development of X-ray microscopes and applications ▶ Chemical state analysis of materials under high pressure
- using X-ray microscopes ▶ Time-resolved X-ray measurement using synchrotron radiation
- The local strain estimation of semiconductor devices
- Development of ultrafast magnetic imaging by soft x-ray
- ▶ Development of Compton scattering imaging by using high energy synchrotron radiation X-rays
- Material analysis using SR and synthesis of functional surfaces ▶ Soft-X-Ray imaging and analysis of materials using syncrotron light
- Kagoshima, Yasushi, Sci
- Ozawa Keisuke Sci Tanaka Yoshihito Sci Tsusaka, Yoshiyuki, Sci Wadati, Hiroki, Sci
- Kojzumi Akihisa Sci Kanda, Kazuhiro, Ast
- Muramatsu, Yasuji, Eng Evaluation of functional materials by photoemission spectroscopy
 - photoemission spectroscopy
 - Materials and devices analysis using X-ray absorption
 - ▶ Structural dynamics analysis on proteins using synchrotron radiation
- Harada, Tetsuo, Ast
- spectroscopy and development of novel X-ray analysis
- X-ray nano-micro processing
- Ultrafast spectroscopy using lasers and synchrotron radiation Kaneshima, Keisuke , Sci
- Haruvama, Yuichi, Ast Materials analysis by near-ambient pressure hard X-ray Suzuki Satoru Ast
- technique > Synthesis of materials for advanced semiconductor devices and physical property analysis using synchrotron radiation

Energy

Natural energy

- Crystalline silicon solar cells and related area
- ▶ Development of high-efficiency silicon solar cells
- ▶ Application of biomass-energy and complex fluid I ow temperature difference heat utilization
- Arafune, Koji, Eng Yoshida, Haruhiko, Eng Itoh, Kazuhiro, Eng Yamaguchi, Yoshiyuki, Eng
- Development of particulate photocatalyst for artificial photosynthesis Development of charged silicate layers for surface

passivation of Si-solar cells

Hotta, Yasushi, Eng

Energy conservation and storage

- ▶ Energy-conserving and environmentally-friendly thermofluid transport
- ► High-performance cooling technology for energy conservation
- Development of high performance heat exchanger
- Cooling techniques for high-heat-flux removal Separation processes and battery development at high pressure
- ▶ Preparation of novel materials for energy storage
- Development of high-efficiency thermoelectric devices

Low environmental impact materials

- Study on cathode materials and Lithium-ion battery
- Mechanical properties and strcture control of polymeric materials

Nuclear energy safety control

- Nakamura, Tatsuya, Eng Matsuda, Satoshi, Eng

Kimura, Fumiyoshi, Eng

Kawanami, Osamu, Eng

Hirokawa, Tomoki, Eng

Matsuo, Yoshiaki, Eng

Mori, Hidenobu, Eng

Honda, Itsuro, Eng

Maeda Kouii Eng

Solid electrolytes for battery, fuel cell, and chemical

Development and evaluation of chemical processes

Innovation and investigation of next-generation

Perovskite solar cells and hydrogen fuel cells

▶ Efficient hydrogen generation over skeletal metal catalyst

▶ Development of electrolyte materials for next-generation

based on crystallization technology

secondary batteries

secondary batteries

conversion applications

Yamamoto, Takuji, Eng

Inamoto, Junichi, Eng

Kakibe, Takeshi, Eng

Ito, Seigo, Eng

Kubo, Minoru, Sci

Oiwa, Kazuhiro, Sci

Tohda, Rei, Sci

Sato, Wataru, Sci

Nishikawa, Koji, Lai

Nomura, Takeshi, Hse

Yamauchi, Daisuke, Sci

Oinuma, Izumi, Sci

Hayashi, Akiyo, Sci

Yoshida Hiderou Sci

Sasaki, Kanae, Sci

Nishino, Yuri, Sci

Inaki Mikiko Sci

Isozaki, Yushi, Sci

Izawa, Toshiaki, Sci

Sakurai, Hajime, Sci

Nozaki, Ai, Eng

Development of target injection system for nuclear fusion Koga, Mayuko, Eng

Biological science

Biophysics

- ▶ Generating artificial cells Energy transduction mechanism in biomembrane
- ▶ Cell-free protein synthesis

Plant cell biology

► Synthesis of useful biopolymers

function of microalgae

information

Cell motility and the cytoskeleton

Animal cell biology

structure and gene expression

▶ Biogenesis of membrane in the cell

- ▶ Structural biology of proteins related to cancer Structure-function relationship in metalloproteins
- ▶ Structural analysis of molecular mechanisms of protein degradation pathways

Investigation on and application of photosynthetic

▶ Mechanism of genomic control during the cell cycle

▶ Cell cycle control for the maintenance of genetic

Molecular mechanism for regulating chromatin

- ▶ Vibrational spectroscopy of protein ▶ Structural biology on chemical energy conversion of proteins Ogata Hideaki Sci
- Imataka Hiroaki Eng ▶ Time-resolved detection of biomolecular dynamics Functional analysis and engineering applications of protein motors > Structure-function relationship in sensor proteins ▶ Molecular mechanism analysis of proteins using
- Tosha, Takehiko, Sci spectroscopic techniques ▶ Protein Structural chemistry by using the neutron Mizushima, Tsunehiro, Sci diffraction method Yanagisawa, Sachiko, Sci
 - ▶ Gating mechanism of mechanosensitive channels
 - Yokota, Etsuo, Sci Kashino, Yasuhiro, Sci

Nakai, Tomonori, Sci

Shiomi, Yasushi, Sci

Muramoto, Kazumasa, Sci

Machida, Kodai, Eng

Shibata Naoki Sci

- of seeds during germination

 - ▶ Cellular functions of small GTPases ▶ Mechanism of genome maintenance by proteolysis system ▶ ER stress response and Golgi stress response

▶ The study for analysis of change of the inner structure

- Nishitani, Hideo, Sci (novel anticancer medicine) ▶ Molecular mechanism of the mammalian Golgi stress response Hirose, Fumiko, Sci
- Emi, Yoshikazu, Sci ▶ Molecular mechanism of structual alteration in Golgi Neuroscience and developmental biology

production

- ▶ Planarian regeneration Umezono, Yoshihiko, Sci ▶ Differentiation of germline stem cells in planarian Doptogenetics: Development and function of the brain and the gut ▶ Structural physiology of the neural signaling by electron microscopy
 - Orii, Hidefumi, Sci Hatta, Kouhei, Sci Miyazawa, Atsuo, Sci Mochii Makoto Sci
- Observation of Neural Circuits and Activity in the Mouse Brain Yukinaga, Hiroko, Sci Structure and function analysis of synapses ▶ Cellular and molecular mechanisms underlying early embryonic morphogenesis Kidokoro, Hinako, Sci

▶ Study of regeneration and stem cells using frog tadpole Biomaterial chemistry

- Development of rapid, simple and sensitive biosensing systems Yasukawa, Tomovuki, Sci ▶ Biomimetic Chemical Sensors and Biosensors by using Membrane Receptors Suzuki, Masato, Sc.
 - - Yoshihisa, Tohru, Sci Protein quality control and organelle homeostasis

▶ Mechanisms of morphogenesis in *Drosophila*

Nanodevice fusion for rapid monoclonal antibody

Frontier

Earth, Space

Impact assessment of climate change, assessment of urban heat island and possible adaptations

▶ Geohistory of the Asian continent including the Japanese Islands

▶ Analyses of non-coding RNA dynamics in eukaryotic cells

▶ Highly accurate simulation of clouds and precipitation using the super-droplet method ▶ Observational study of star and planet forming regions Researches on fossils of small amphibians and reptiles

▶ Phylogeny of non-avian dinosaurs and Mesozoic birds

- Oku, Yuichiro, Hse Uno, Koji, Hse
- Shima, Shin-ichiro, Ins Ito, Yoichi, Nes Ikeda, Tadahiro, Nes
- ▶ Origin of elements in the universe
- Aguatic Ecosystem and Paleoenvironment Nonlinear Phenomena in Pulsating Variable Stars
- ► Search for Extraterrestrial Intelligence (SETI) Investigation of volcanoes using geophysical surveys
- ▶ Geoscience and culture Investigation of volcanic eruption based on the rock texture
- ▶ Weather numerical simulation and disaster dynamics
- Hirose, Kotaro, Nes Ishida Toshihito Nes Narusawa Shin-ya Nes Ishizu, Keiichi, Sci Kawamura, Norihito, Rrm Sano, Kyohei, Rrm Taniguchi, Hiroshi, Drg

Honda, Satoshi, Nes

02

Frontier

Mathematical sciences

- Inverse problems in partial differential equations
- Nonlinear partial differential equations
- ▶ Probability theory
- Number theory

Nagayasu, Sei, Sci Kato, Masakazu, Sci Hirano, Katsuhiro, Sci

- Differential geometry and variational problems of curves Kawakubo Satoshi, Sci. Differential geometry of immersions of surfaces ▶ Spectral and scattering theory of quantum mechanics Yamauchi, Atsuo, Sci Moduli theory of connections
- Moriva, Katsuhiro, Sci Tadano, Yukihide, Sci Komyo, Arata, Sci.

Yamasaki, Takeshi, Nes

Nakahama, Naoyuki, Nes

Yorisue, Takefumi, Nes

Deguchi, Tomohiro, Rrm

Funo, Takayuki, Rrm

Sagawa, Shiro, Rrm

Naito, Kazuaki, Rrm

Kodate, Seiii, Nes

Fujiki, Dajsuke, Nes

Fujita, Dajsuke, Eng

Kobashi, Syoji, Ame

Yagi, Naomi, Ame

Nagai, Narumi, Hse

Nakade Makiko Hse

Yoshida, Masaru, Hse

Arimitsu Hidevuki Hse

Takagi, Shun, Nes

Environment

Conservation of ecosystem

- ▶ Forest biology and environment ▶ Simulation for ecology and environment Nakagiri, Nariyuki, Hse ▶ Lake ecology and material cycles ▶ Biodiversity in forest ecosystems and its conservation Systematics and biogeography of reptiles and amhibians
- ▶ Genetic dversty of endangerd plants ▶ Biodiversity and evolution of insects
- ▶ Ecology and taxonomy of fishes
- ▶ Ecosystem manegement in wetland and river Conservation of wildlife, reduction of conflict between
- humans and wildlife ▶ Wildlife management and conservation
- Assessment and management of invasive alien mammal species Kuriyama, Takeo, Nes
- Ohashi, Mizue, Hse
- Kazama Takehiro Hse Ishida, Hiroaki, Nes Ota Hidetoshi Nes Suzuki Takeshi Nes Yamada, Kazutaka, Nes Takahashi, Tetsumi, Nes
- Morimitsu, Yoshiki, Nes Yokoyama, Mayumi, Nes

Mitsuhashi, Hiromune, Nes

- ▶ Biodiversity of terrestrial arthropods
- Wildlife population dynamics, plant-animal interactions ▶ Conservation and restoration of endangered species based on genetic information Larval ecology of marine invertebrates
- ▶ Reintroduction biology including the oriental white stork restoration Reintroduction of the Oriental white stork and
- conservation of the endangered birds ▶ High performance and low energy consumption
- filtration, concentration, Water treatment technology Satone, Hiroshi, Eng
- Takeo, Masahiro, Eng
 - ▶ Environmental biotechnology using plants and microbes Ishizawa, Hidehiro, Eng

Environmental conservation

▶ Environmental purification using useful microorganisms

- ▶ Study on the urban greenery and overseas afforestation
- ▶ Conservation of rural and coastal vegetation

Environmental cleanup

(biodegradation & bioremediation)

- ► Conservation of vegetation landscape
- ▶ Development of teaching materials for environment education
- ▶ Evaluation method of green landscape
- ▶ Utilization of plants in ornamental horticulture
- ▶ Development technology in horticulture and its utilization
- ▶ Urban landscape planning and conservation
- Ovabu, Takashi, Ldm Sawada, Yoshihiro, Ldm Fujihara, Michiro, Ldm
- Takeyama, Hiroshi, Ldm
- Yamamoto, Satoshi, Ldm Fudano, Takashi, Ldm Iwasaki, Tetsuya, Ldm
- Aguatic habitat conservation and restoration
- Hinoue, Keiko, Ldm

Kamiura, Naotake, Eng

Takada, Tadao, Eng

Higa, Masaru, Eng

Furutani, Eiko, Eng

Murakami, Akira, Hse

Yoshimura, Miki, Hse

Uchida, Havato, Hse

Aizawa, Chie, Nas

Ohno, Kaori, Nas

Ono Hiroshi Nas

Okamura, Kazuko, Nas

Konishi, Miwako, Nas

- - geological resources

Biosignal processing

Support System

- ► Conservation of forest and its soil ecology

- Conservation of threatened plants and animals ▶ Geodiversity, conservation and utilization of
- ▶ Vegetation conservation and management
- Forest management and habitat management for

Matsubara, Noritaka, Rrm Kuroda Asumo Nes

▶ Artificial Intelligence in Medical and Healthcare Systems

▶ Development in Medical Healthcare and Diagnosis

Humancare

Self-management in chronic pulmonary disease patient	Mori, Kikuko, Nas	Nursing support for cancer patients undergoing treatment
Nursing for the prevention of diabetes and PAD	Kataoka, Chiaki, Nas	Nursing care for adolescents and young adults with
Nursing practice by skilled nurses for low self-esteem in		cancer
type 2 diabetes patients	Mifune, Eri, Nas	Nursing Interventions to promote more meaningful
Women's health and perinatal nursing care	Nomachi, Shinobu, Nas	experiences for Elderly with Dementia
Women's health and perinatal nursing care	Kawamura, Mayuka, Nas	Care for person living with dementia
Women's healthcare and perinatal nursing care	Nagai, Tomo, Nas	Nursing Care for Adolescents and Young Adults with
Autonomy of Critical Care Nurses	Oe, Rie, Nas	Cancer or Child Onset Chronic Disease
Self-management of health in home settings	Omura, Kayoko, Nas	Nursing for children with severe motor and intellectual
Development of nursing education program involving		disabilities
invasive mechanical ventilation	Tsukuda, Makoto, Nas	Educational support for operating room nurses
Nursing for hematopoietic stem cell transplant	Kiyohara, Hana, Nas	Grief and bereavement in critical care
Nursing care of cancer patients undergoing radiation		Dental public health, inter-professional collaboration

Healthcare

therapy

▶ Thermal barrier free in urban and building environments	Tsuchikawa, Tadahiro, Hse	Development of a scale measuring the job satisfaction	
Study on human body movement in sports and life		of Japanese hospital nurses	Muya, Makiko, Nas
activities	Fukuda, Koji, Hse	▶ Prevention of nurse turnover	Hayashida, Kazuko, Nas
Supports for people with mental health problems and		▶ Nursing informatics	Takami, Miki, Nas
their families	Kawada, Miwa, Hse	▶ Electronic medical records and nursing functions	Nakanishi, Eiko, Nas
Exercise science for human health	Shibata, Masashi, Hse	▶ Supports for people with mental health problems and	
Nursing care for prevention of cardiovascular disease		their families, Education for psychiatric nurses	Nishiike, Eiko, Nas
recurrence	Hamaue, Akiko, Hse	Nursing care for dysphagia of patient with	
Development of efficient training programs for health		cerebrovascular disorder	Awamura, Kenji, Nas
promotion and physical fitness improvement	Mori, Hisashi, Hse	Study on relationships of environmental and genetic	
► MEMS and medical IoT=IoMT(Internet of Medical Things)	Fujita, Takayuki, Ame	factors with lifestyle-related diseases	Uemura, Hirokazu, Nas
▶ The effects in brain and health given by green		Healthcare support for the visually impaired	Yamaoka, Chizuru, Nas
environment and gardening	Toyoda, Masahiro, Ldm	Oral care for elderly people with dementia	Nishitani, Miho, Nas
Effects of horticultural therapy on mental health /		Developing parent training program for foster parents and	
Utilization of therapeutic gardens in community	Kenmochi, Takuya, Ldm	adoptive parents of children with developmental disorder	Furukawa, Emi, Nas
Medical/Social care financial management	Kinoshita, Takashi, Ss	Health education for school-aged children	Ando, Hitomi, Nas
Knowledge extraction from medical data	Takemura, Tadamasa, Ins	Care for tuberculosis patients	Shimamura, Tamae, Nas
Assessment of psychosomatic state related to brain		Child Maltreatment Prevention and Family Support	Ishii, Miyuki, Nas
function and autonomic nervous system	Mizuno-Matsumoto, Yuko, Ins	Mental health support for people with physical illness	Kikuchi, Natsu, Nas
Computational heart modeling, Biomedical simulation	Haraguchi, Ryo, Ins	Support for children and the whole family through	
Disaster risk managemento for health & nursing		cooperation between schools and community health	Terakawa, Eriko, Nas
management system	Mashino, Sonoe, Npc	▶ Support for heart failure patients receiving treatment at home	Yamamoto, Keiko, Nas
Study on Ebola virus disease, cholera, and disaster			
nursing	Muzembo Basilua Andre Noc		

Asada, Hiromi, Nas

Life science

Medical diagnosis

- Computer-aided system for treatments for ophthalmology and internal medicine Development of electrochemical and photochemical sensors for disease diagnosis ▶ Calculation and direct measuremetns of joint reaction forces
- ▶ Medical control systems, modeling of physiological functions
- Food and health
- ▶ Bioavailability and bioactivity of functional food components.
- ▶ Research of clinical nutrition

Humancare

▶ Care for breastfeeding mothers

▶ Support for child-rearing women

- ▶ Oxidative stress and diseases: modulation by food components ▶ Study on cooking properties and dietary habit
- ▶ Analysis of interaction between lipid metabolism and nutrients
- ▶ Mechanisms underlying physiological functions and side-effects of food factors
- ▶ Phsical properties ,palatability and chewability of Food

▶ Computer aided nursing-care quality improvement system

▶ Regional healthcare collaboration, Disaster resilient home care

▶ Prediction and prevention of postoperative delirium

Investigate to practical intelligence of expert nurse

▶ How to build successful societies of longer lives

- Application of chrono-nutrition to the clinical and Ishisaka Akari Hse Ito, Mikiko, Hse Kato, Yoji, Hse
- Sakamoto, Kaoru, Hse
- Tanaka, Sarasa, Hse
- health care fields ▶ Research of food microbiologies and food pathogens ▶ Association between diet/eating behaviors and health ▶ Comprehensive metabolite analysis under inflammatory
 - conditions and development of new therapies ▶ Resistant starch mixed foods of physical properties
 - and palatability Research on timing of feeding and lipid metabolism ▶ Alternative model host in food microbiology
 - Physiological function and metabolism of micronutrients.
- Nii, Manabu, Eng Development of shared decision support program for
 - Women's health care Oral health promotion

cancer patients

- Nursing care for elderly people with dmeneita and family caregivers
- ▶ Education and nursing care on sleep
- Kawasaki, Yuko, Nas Kudo Yoshiko Nas Sakashita, Reiko, Nas

Kaneko, Ichiro, Hse

Takami Miho Nas Tanida, Keiko, Nas

Social infrastructure

Ota Naotaka Hse

Shojo, Naoya, Hse

Katayama, Takafumi, Nas

Hayashi, Chisato, Npc

Kawamukai, Hajime, Ins

Social infrastructure

- Regional and Architectural Planning Focused on Stakeholders Tajima, Kimie, Ss ▶ Building plan in stock based society Yasueda, Hidetoshi, Hse ▶ Residential planning and design Utaka, Yushi, Hse Clarifying disaster process using psychological and social survey method Kimura, Reo, Hse ▶ Theory of architecture Mitamura, Tetsuva, Hse ▶ Rural resource management and utilization Miyake, Yasunari, Hse ▶ Planning of space compositions in houses Mizukami, Yutaka, Hse ▶ City planning systems and practices for sustainable
- urban development ▶ Seismic design for wooden structure Study on education for disaster mitigation, health
- promotion and medical technology assessment ▶ Health promotion and technology in community Databased spatial analysis and visual presentation of
- spatial phenominonon Shimada, Ryoko, Hse Hanzawa Fumiaki Hse Regional vitalization Komura Tomomi Hse

participation type

- Inclusive desgn for parks and outdoor recreation ▶ Preservation and management of cultural heritage in regional society ▶ Neighborhood organization and community Yamamuro, Atsushi, Rrm
- ▶ Building resilient local community for the natural disaster
- Landscape planning and regional management by multi-sectoral governance ▶ Public facility management assistance of resident
 - Akazawa, Hiroki, Nes Fujimoto, Mari, Nes

- Theory and application of decision making under uncertainty Landscape design ▶ Urban landscape planning
- ▶ Building theories on landscape planning incorporating urban agriculture Architectural design utilizing Disaster Mitigation and
- Reconstruction Studies ▶ Building disaster information system for enhance of
- regional disaster reduction ▶ Urban and regional management for disaster resilience ▶ Urban resilience and disaster management
- ▶ Earthquake research for disaster resilience ▶ Rural planning & management of agricultural damage
- by wildlife Management of social consensus building

Uchida, Megumi, Nas

Nishioka, Eina, Nas

Tokuda, Sachiyo, Nas

Nakasuji Yoshiko Nas

Maru, Mitsue, Nas

Iida, Kazufumi, Nas Okada, Nao, Nas

Ito, Yoshiyasu, Nas

Entani, Tomoe, Ins.

Shen, Yue, Ldm

Hirata, Fujio, Ldm

Shimpo, Naomi, Ldm

Nagano, Yasuvuki, Drg

Urakawa Go Dro

Banba, Michiko, Drg

Beniva, Shohei, Drg

Hirai, Takashi, Drg

Yamabata, Naoto, Nes

Takada, Tomoki, Nes

Kinomoto Shoko Nas

Regional revitalization utilizing art and culture Takeda Naoki Ldm ▶ Planning and management of landscape utilizing local Mino, Nobuyuki, Ldm

Ohira, Kazuhiro, Nes resources ▶ Process planning for disaster revival Sawada, Masahiro, Drg Nakai, Atsushi, Rrm ▶ Support policy for disaster affected victims Aota, Ryosuke, Drg ▶ Regional project development for taking over regional Uchihira, Takayuki, Syc Yagasaki, Taiyo, Rrm communityship ▶ Community-University Partnership for sustainable development of rural areas Shibazaki, Kohei, Hse

04 05

Business

Schools & Institutes

Em: Economics and Management Hse: Human Science and Environment Nas: Nursing Art and Science Ins: Information Science Ss: Social Sciences

Drg: Disaster Resilience and Governance Pas: Policy Analysis and Social Innovation Ge: General Education Svc: Institute for Innovation and Social Value Creation

Economic theory. Econometrics

- Macroeconomics; Growth, technology and income distribution
- ▶ Experimental Economoics: Estimation and analysis of social preferences
- ▶ Economic growth theory

- Osumi, Yasuvuki, Em
- Kwon Hyoji Em Kuwahara, Shiro, Em
- ▶ Equilibrium selection in dynamic games and its applications to collusions
- ▶ Theoretical analysis on regression model in econometrics ▶ Spatial Competition
- Nakagawa Kuninori Em Macroeconomic theory on demographic change, human capital accumulation and public policy Hashimoto, Hiorovuki, Ss

Kurumai Hiroko Em

Isogai, Shigeki, Em

Economic history, History of economic thought

- ▶ History of economic thought
- Japanese and Asian Economic history, Development of the sugar industry
- Osawa, Atsushi, Pas
- Asian economic history, China economic history, Travel industry of modern China

YI. Xingxing, Em

Finance

- ▶ International monetary economics
- ▶ Banking business and payment systems ▶ Empirical research in monetary economics
- Yoshida, Yasushi, Em
- Yamada, Kazuo, Em
- ▶ Enhancement of tax compliance Finance, Financial engineering

Kim, Youngrok, Em Saikawa, Koji, Ss Ochiai, Natsumi, Pas

International economics, Development economics

- International economics, Theory of economic integration and growth
- Ishiguro, Yasuko, Em
- ▶ International economics

Nishiyama, Hiroyuki, Em

Shimizu, Takanori, Ss

Public economics, Industrial organization, Social policy, Labor economics

- ▶ Health economics, Quantitative analysis of social policies
- ▶ Comparative study of enterprise forms
- ▶ Empirical research on the labor market and the social security system in Japan
- Kan Mari Em Mikami, Kazuhiko, Em
- Yokoyama, Yukiko, Em
- ▶ Economics of decision making under uncertainty
- ▶ Analyses of knowledge creativity based on large-scale data and network
- ▶ Simulation analysis of fiscal and social security policy
- - Inoue, Hirovasu, Ins Kimura, Shin, Ins

Regional economics, Environmental economics

- ▶ Transport economics and urban economics
- Theory and empirical analysis of regional economics and environment
- Koyama, Shinya, Em Tomono, Akihiko, Em
- ▶ Cost-benefit analysis of climate change strategies by
- environmental-economic model
- Nakajima Kazunori Hse

Law

- ▶ Corporation Law and Securities Law
- ▶ Economic administrative law and energy law
- Shimonaka, Kazuto, Em Hamada, Hiroshi, Em

Kinshi Kayoko Em

Suehiro, Miki, Em

Onohara, Noriko, Em

Tamas, Carmen, Em

Nishimura, Kanehiro, Nas

- Kusanagi Shinichi Pas
- Tax law .Tax conflict Family Law, Child Adoption
- Sawada, Tadashi, Ss. Kivuna, Naori, Hse

International culture and communication

- Contrastive linguistics English education
- ▶ Historical Linguistics of Latin and some other languages
- Language and cultural education, Identity studies ▶ Japanese fashion culture in contemporary global era
- Cultural anthropology, with a focus on Japanese culture and Japanese festivals
- Social anthropology of food, consumption, gender and employment
- Stephanie Assmann-Terada Em ▶ English literature and culture, Modern Japanese history,
- History of science
 - Ishikura, Waka, Hse
- Multucultural education, education in developing
- Media discourse analysis, Language and communication education
- Study of prose fiction, stylistics, and English education Fieldwork-based study of language and communication
- Contemporary Chinese history, Cultural exchange
- American literature and culture, English teaching Disaster Risk Communication
- - Kasuya, Michiko, Hse Teranishi, Masayuki, Hse Kimoto, Yukinori, Hse Nagira, Yuri, Hse

Inui, Miki, Hse

- - Zheng, Cheng, Hse Sakamoto, Mayumi, Drg

Education, Psychology, History of thought, Sociology

- ▶ Japanese Intellectual History: Study on Discovery and Development of National Identity in Japan Hoshiyama, Kyoko, Em ▶ Clinical Psychology, Analytical Psychology, Psychotherapy Practice and Research ▶ School guidance (support for children with various needs) Narrative Identity Research on Friendship ▶ Padagogy, Education pollicy, Educaiton system
 - Inoue, Yasuko, Hse Takeuchi, Kazuo, Hse Hosaka Yuko Hse Ozaki, Kimiko, Hse

Itoh, Masavuki, Hse

- Ancient and Medieval Philosophy, Ethics, and Philosophy Nishimura Yohei Hse
- ▶ Philosophy of Education, History of Educational ▶ Educational and professional career of Japanese
- people, Curriculum Ikeda, Masanori, Nas ▶ Phenomenology as a Qualitative Research Kihira, Tomoki, Nas ▶ English education, Sociocultural theory Mark Taylor Ge

Yamaguchi, Yuki, Hse

Masuhara, Naoki, Hse

Matsumura, Kouki, Em

Urayama, Takeshi, Em

Eguchi, Yoshiaki, Hse

Takebata Hiroshi Hse

Ochi, Masashi, Svc

Tanaka, Takashi, Pas

Kawakami, Masanao, Em

Yamaguchi, Takahide, Em

Nagasato, Kenji, Em

Khalid, Saddam, Em

▶ Sociological Criminology, Disaster, Sociology, People with Functional Needs in Times of Disaster (PFND) Matsukawa Anna Dro

Environment, Biology

- ▶ Environmental education Nishikawa Shoko Ss ▶ Utilization of microbial resource Enokibara, Shogo, Em
- Conservation of ecosystem
- Information Science ▶ Safety of information systems, Multiagent systems ▶ Analysis on governmental statistical data, Database construction
- applications
- ▶ Theory of Algorithms: Satisfiability Problems, Network Algorithms, Mathematical Puzzles
- Kiniwa, Jun. Ins Information Retrieval for Big Data Furuzumi, Hiroki, Ins

decarbonization and SDGs

- ▶ Constructing algorithmic foundations towards real-world Higashikawa, Yuva, Ins
- Design and analysis of efficient algorithms and

▶ Sport management: Consumer behavior in sport industry

▶ Local policy studies and business support for achieving

- problems Teruyama, Junichi, Ins
- Tamaki, Suguru, Ins Yamamoto, Takehiro, Ins Design and analysis of algorithms for combinatorial Miyazaki Shuichi Ins
 - ▶ Behavioral and psychological modeling in social media and recommendation design Hijikata, Yoshinori, Ins.

Health and sports science

- ▶ Health and sport sciences ▶ Sport sociology, Sports promotion policy, Regional revitalization through sports
- Healthcare management
- ▶ Healthcare management Kovama Hideo Ss ▶ Research on health/social care management and Community-based integrated care system
 - ▶ Empirical research on verification of the effect of public hospital reforms Tsutsui, Takako, Ss

Mathmatics. Statistics

- ▶ Primitivity and semiprimitivity of group algebras of infinite groups

 - Nishinaka, Tsunekazu, Em

Ikarugi, Hideo, Em

Ito, Katsuhiro, Em

- Hyperbolic Geometry
 - ▶ Statistical inference for singular models Moritani Yoshiya Em Ushijima, Akira, Em

Small & medium enterprises, Regional innovation

- ▶ Management of small and medium-sized enterprises ▶ Urban policy, urban regeneration, economic geography ▶ Research on the organization management associated with industry-academia collaboration work ▶ Study on policy of SMEs and innovation
 - Fujikawa Takeshi Em Wada, Mariko, Em Kotera Michiaki Ss Yajima, Satoshi, Ss Iseki, Takahiro, Hse
- ▶ Theoretical and empirical research for the tourism industry ▶ Socio-economic geography and regional community Sugivama, Takeshi, Hse ▶ Welfare sociology

Distributive trade, Commerce, Marketing

- ▶ Revitalization of local commerce, dereguration effect on distribution system
- Marketing for SMEs (Small and Medium-sized Enterprises) and entrepreneurs ▶ Consumer perception and behavior, Psychology-based

marketing, Tourism issues

▶ Study on strategy and technique for city promotion

Kamise, Shoji, Em Komiya, Kazutaka, Em

Bình, Nghiệm-Phú, Em

- ▶ Research on consumer choice in insurance and its influential elements Marketing strategy and interorganizational relashionships

▶ Study on evaluation of urban competitiveness

Akiyama, Shuichi, Ss.

Strategic management, Global business

- ▶ Strategy and organization for technological and social innovation Toma, Katsuo, Pas ▶ International business and strategy Uchida, Yasuro, Ss Innovation Management
- Internationalization strategy and capability building of emerging market multinational enterprises

Organizational management

▶ Organizatinal justice and telework; Working at home

▶ Empirical study on retention management of care-giving

▶ Creative organization, organizational justice

workers

- Nakamura,Tomoya, Em entrepreneurship, Organizational behavior and
- ▶ Profit based business model innovation International management ▶ Japanese manufacturing management ▶ Psychology of entrepreneurship, International
- Gong, Yuanyuan, Em entrepreneurial orientation
- Kano Ikuva Em Misaki, Hideo, Em
- Takashina, Toshinori, Em Sustainable Nursing Business
- Research on the behavior of bridge personnel in multinational companies ▶ The Management Consulting and Planing for The
- Ohno, Yoko, Em Ide, Kenjiro, Ss

Management sciences

Mathematical optimization: Integer programming and ▶ Coordination of organizations in introducing combinatorial optimization Nishide, Akihito, Ins Fuije, Tetsuva, Ins information systems

Financial accounting

▶ Auditing , Assurance engagement

▶ Accounting standard-setting process ▶ Cash flow accounting Tsuchida, Toshiya, Ss

Tsujikawa, Naoki, Em Aligning accounting information systems with business strategy Hayashi, Masahiko, Ss Masumura, Noriko, Ss

Management accounting

▶ Environmental change and budgeting Fukuda, Naoki, Ss

Public sector accounting, Not-for-profit organizations accounting

▶ Applying business accounting theory in the governmental field

▶ Accounting system and performance measurement on

Nes: Natural and Environmental Sciences

Ge: General Education

Npc: Nursing Care for People and Community

▶ Globalization of accounting standards

public sector Tsuduki, Yoichiro, Em Kawarada, Saki, Ss

Digital Transformation

Eng: Engineering

Schools & Institutes

Sci: Science

Ins: Information Science

Ast: Advanced Science and Technology for Industry

Nagase, Takeshi, Eng

DX: Manufacturing

▶ Data-driven control

▶ Development of network tele-microscopy observation

Sato, Takao, Eng Development of deep learning surrogates for

molecular simulations

Shiba, Havato, Ins.

Inoue, Sadako, Ss

DX: Information communications

▶ Wireless communication technology: radio waves, ▶ Analysis on time series signal based on hardware, applications Aikawa, Satoru, Eng machine learning Isokawa, Teijiro, Eng ▶ AI Visual Inspection System Morimoto, Masakazu, Eng Network Security Tanaka, Toshiaki, Ins

DX: Nanotechnology

▶ Theoretical material design of superconductors and ▶ QX×DX in research of superconducting phenomena carbon-based nano-devices Kusakabe, Koichi, Sci

DX: Energy

▶ Eco-friendly electric/electronic devices and materials Nonlinear Control Theory and Its Application to Energy for sustainable energy management Ueno, Hideki, Eng Systems Hoshino, Hikaru, Eng

DX: Biological science

▶ Molecular dynamics simulation for biomolecules Oshima, Hiraku, Sci

DX: Environment

▶ Geophysical exploration for Earth's resources, disaster Development of technology to facilitate digitization of and environment specimens in natural history museums Goto, Tada-nori, Sci Takano, Atsuko, Nes

DX : Life science

▶ Medical, non-destructive testing, and health care systems ▶ Biodata-driven neuropsychiatric research

Hata, Yutaka, Ins Development of a telemedicine system and a program for human resource development in child healthcare using ICT Data Utilization and Assessment in Exercise and Sports

Honda, Junko, Npc Kondo, Rvosuke, Ge

DX: Social infrastructure

▶ Data science and its application to social and economic big data Fujiwara, Yoshihisa, Ins

DX: Business

▶ Methodologies for risk analysis based on Bayesian

Kaise, Toru, Ins.

▶ Ontology Engineering and its Applications

Sasajima, Munehiko, Ins

University of Hyogo, Campus Map

Harima Campus for Science (School of Science, Graduate School of Science)

3-2-1, Koto, Kamigori-cho, Ako-gun, Hyogo, 678-1297 TEL.0791 (58) 0101

Laboratory of Advanced Science and Technology for Industry

3-1-2 Koto, Kamigori-cho, Ako-gun, Hyogo, 678-1205

TEL.0791 (58) 0249

High School and Junior High School of University of Hyogo

3-11-1 Koto, Kamigori-cho, Ako-gun, Hyogo, 678-1205 High School TEL.0791 (58) 0722 Junior High School TEL.0791 (58) 0735

Institute of Natural and **Environmental Sciences** (Astronomy and Astrophysics Division)

407-2, Nishigaichi, Sayo-cho, Sayo, Hyogo, TEL.0790(82)3886

Himeji Campus for Engineering (School of Engineering, Graduate School of Engineering

School of Science, Shosha) 2167, Shosha, Himeji, Hyogo, 671-2280 TEL.079 (266) 1661

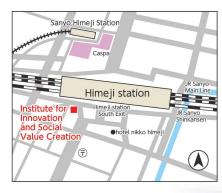
Himeji Campus for Human Science (School of Human Science and Envrionment, Graduate School of Human Science and Envrionment)

1-1-12, Shinzaike-honcho, Himeji, Hyogo, 670-0092 TEL.079(292)1515

Institute for Innovation and Social Value Creation

Jibasanbiru 3F, 123, Minami-ekimae-cho, Himeji, Hyogo, 670-0962

200



Advanced Medical Engineering Research Institute

Education and Training Building 3F Harima-Himeji General Medical Center 3-264, Kamiya-cho, Himeji, Hyogo, 670-0836 TEL. 079(280)1248

Toyooka Geo & Kounotori Campus (Graduate School of Regional Resources Management, Institute of Natural and **Environmental Sciences** (Regional Resources Management Division) 128, Ninotani, Syounji, Toyooka, Hyogo, 668-0814

Institute of Natural and Environmental Sciences(Forest & Wildlife Division)

940, Sawano, Aogaki-cho, Hyogo, 669-3842 TEL.0795 (80) 5500

TEL.0796 (34) 6079

Institute of Natural and Environmental Sciences(Nature and Environment Division)

6, Yayoigaoka, Sanda, Hyogo, 669-1546 TEL.079 (559) 2001

Kobe Campus for Commerce (Headquarter,

School of Economics and Management, School of Social Information Science. Graduate School of Social Science, Graduate School of Informatics)

8-2-1. Gakuennishi-machi, Nishi-ku, Kobe, Hyogo, 651-2197 TEL.078(794)5184

Institute for Policy Analysis and Social Innovation

8-2-1, Gakuennishi-machi, Nishi-ku, Kobe, Hyogo,

TEL.078 (794) 5302

Kobe Campus for Disaster Resilience (Graduate School of Disaster Resilience and Governance)

Eastt Building, Disaster Prevention and Human Renovation Institution 1-5-2, Kaigan-dori, Wakinohama, Chuo-ku, Kobe, Hyogo 651-0073

TÉL.078(891)7376

Kobe Campus for Informatics (Graduate School of Informatics)

7-1-28, Minatojima-minamimachi, Chuo-ku, Kobe, Hyogo, 650-0047 TEL.078 (303) 1901

Akashi Campus for Nursing Art and Science (College of Nursing Art and Science, Graduate School of Nursing Art and Science)

13-71, Kitaoji-cho, Akashi, Hyogo, 673-8588 TEL.078 (925) 0860

Research Institute of Nursing Care for People and Community 13-71, Kitaoji-cho, Akashi, Hyogo, 673-8589 TEL.078(925)9605

Awaji Campus for Landscape Design (Graduate School of Landscape Design and Management, Institute of Natural and **Environmental Sciences**

(Landscape and Horticulture Division) 954-2, Tokiwa-dai, Nojima, Awaji, Hyogo,

TEL.0799(82)3131