

## **Division of Integrated Human Sciences**

### **Outline**

Sophistication is one of the essential elements for dental students to conduct smooth communication with patients. The division of Integrated Human Sciences is formed specifically in accordance with the aim of developing cultural literacy and basic academic skills of students. The division, cooperating with Center for Education in Liberal Arts and Sciences, offers a wide variety of cultural subjects to students. School of Dentistry holds experts of English education, bioethics, physics, and international relations who provide the following fascinating research and lectures.

### **1. Teaching English as a Foreign/Second Language**

Professor Hirofumi Tsukagoshi, MA. <hiro@hoku-iryu-u.ac.jp>

#### **Research Interests**

- English language teaching methodology and intercultural communication education
- Intercultural training and its application to health communication education

#### **Selected Publications**

- Tsukagoshi H.: Health Communication Education: Applying Cross-Cultural Training to Dental Education. *Speech Communication Education* 15: 13-32, 2002. (in Japanese with English abstract)
- Hayashi R, Hatakeyama A, Tsukagoshi H: Information Technology and the Digital Divide in English Teaching. *J Health Sci Univ Hokkaido (Dept Gen Edu)* 29: 15-21, 2003. (in Japanese with English abstract)

### **2. Political Science, International Relations**

Associate Professor Keiji Sato, PhD. <keiji\_sato@hoku-iryu-u.ac.jp>

#### **Research Interests**

Political Science and International Relations: Contemporary history, politics and international relations of Russia and East Europe; Issues of unrecognized states of Russian “Near abroad” (ex. Transnistria, Abkhazia, and South Ossetia); Issues of ethno-nationalism and patriotism in Russia and authoritarian regime.

#### **Selected Publications**

- Keiji Sato, "The Introduction of Reformation of Liberal Arts Education for Dental Students: A Case Example of Health Sciences University of Hokkaido," *Educatio Nova IV*, Universitatis Mariae Curie-Sklodowska, 39-55, 2019.
- Keiji Sato, “Europeanization at the ‘Grassroots’ Level in Moldova: What Are Effective Ways to Deal with the Transnistrian Conflict?” *Image of the Region in*

*Eurasian Studies* (Kolkata, Maulana Abul Kalam Azad Institute of Asian Studies), 155-168, 2014.

### **3. Bioethics**

Lecturer/Assistant Professor Taichi Isobe, MA. <tisobe@hoku-iryu-u.ac.jp>

#### **Research Interests**

ELSI research (bioethics/neuroethics) and STS (science, technology & society): Upstream engagement research and ELSI research by the BMI (Brain-Machine Interface) technology

#### **Selected Publications**

- Yohko Orito, Tomonori Yamamoto, Hidenobu Sai, Kiyoshi Murata, Yasunori Fukuta, Taichi Isobe, Masashi Hori 'The Ethical Aspects of A "Psychokinesis Machine": An Experimental Survey on The Use of a Brain-Machine Interface' in Mario Arias-Oliva, Jorge Pelegrín-Borondo, Kiyoshi Murata, Ana María Lara Palma (ed.) "Societal Challenges in the Smart Society" Universidad de La Rioja, 81-92, 2020
- Tamami Fukushi, Taichi Isobe, Eisuke Nakazawa, Yoshiyuki Takimoto, Akira Akabayashi, Laura Specker Sullivan, Osamu Sakura 'Neuroethics in Japan' in L. Syd, M Johnso, Karen S. Rommelfanger (ed.) "The Routledge Handbook of Neuroethics" Routledge, 442-455, 2017

### **4. Condensed Matter Physics**

Lecturer/Assistant Professor Tsuguhito Nakano, PhD. <tnakano@hoku-iryu-u.ac.jp>

#### **Research Interests**

Study of the origin of the ferroelectric phase transition and that of the diffuse dielectric response of lead-free ferroelectrics Sn doped SrTiO<sub>3</sub>; The Raman spectroscopic study of various charge and spin ordered states in some transition metal oxides; Study of size measurement of single particle under high particle concentrations using a new static light scattering microscope equipped with white light excitation.

#### **Selected Publications**

- T. Nakano, Y. Mikami, M. Kobayashi, Y. Kogai, and K.Abe, "Raman Spectroscopic Studies on the ferroelectric soft mode in Sn<sub>x</sub>Sr<sub>1-x</sub>TiO<sub>3</sub>", *Ferroelectrics* 532, 111-120, 2018.
- T. Nakano, Y. Mikami, K.Abe, S. Suzuki, K. Akiyama and A. Ando, "Raman Spectroscopic Study of Ferroelectric Sn-Doped SrTiO<sub>3</sub>", *Ferroelectrics* 464, 72-79, 2014.

**Patent:** A. Hasegawa and T. Nakano, Japanese Patent Application 2020-033429.