To all students and faculty members,

Announcement on 2024 Intensive Course in Basic Science Fundamentals & Multidisciplinary Seminars

We are delighted to announce 2024 Intensive Course in Basic Science Fundamentals & Multidisciplinary seminars as a formal class for graduate students in the Graduate School of Medicine. This course is co-sponsored by Research Center for Animal Life Science and Central Research Laboratory.

This intensive course is a part of 2024 special seminar series organized by Central Research Laboratory and is open for all students and staff in SUMS.

We will deliver the online-lecture using Zoom and video. However, the practice should be hands-on training and no video training will be provided. We will send the URL and passcode separately.

- Date: September 10th (Tuesday) September 13th (Friday), 2024
- Program: see reverse side

Regarding abstract of each lecture and practice, please refer to the CRL website. URL: <u>http://wwwcrl.shiga-med.ac.jp/home/seminar/toku_sem/sp2024/prog.html</u> (SUMS website TOP>Departments>Research Centers and Facilities> Central Research Laboratory > Information > 2024 An Intensive Course in Basic Science Fundamentals & Multidisciplinary Seminars / CRL Special Seminars)

To students in "Basic Science Fundamentals & Multidisciplinary Seminars" in 2024: Basic Science Fundamentals & Multidisciplinary Seminars are a part of an obligatory subject, Common core curriculum, in the PhD course at SUMS. All students have to attend 3 or more lectures and/or practices of the Seminars for acquiring credits.

After attending the recorded lecture, you must submit a report using WebClass (A4 size within 1 page, PDF format) on the lecture to WebClass. Those who have taken the face-to-face lecture or practice do not need to submit a report. The deadline for all reports is September 27 (Friday), 5:00PM.

■ Access to Web Class:

WebClass login (<u>https://latte.shiga-med.ac.jp/</u>) > Add Course > "テクニカルセミナー (2024-通年)" > "メンバーになる(Join this Course)"

[Contact information (for inquiries)] Central Research Laboratory Phone: 2300 E-mail: <u>hqcrl@belle.shiga-med.ac.jp</u>

Program of 2024 Intense Course in Basic Science Fundamentals & Multidisciplinary Seminars

- Tuesday, September 10
- 14:00-15:20 Introduction of How to Handle Laboratory Animals (In Japanese)

Toshifumi Morimura, Hideaki Tsuchiya (Research Center for Animal Life Science) Lecture Room A, 2nd floor, Basic Lecture and Practice Building [on-site/zoom/video]

 15:30-16:50 Overview of Immunohistochemistry and Histochemistry (In English) Kinji Asahina (Central Research Laboratory (CRL)) Lecture Room A, 2nd floor, Basic Lecture and Practice Building [on-site/zoom/video]

- 17:00-18:20 Preparation of tissue sections from frozen and paraffin blocks (In English/Japanese) Kinji Asahina, Takefumi Yamamoto, Yasuhiro Mori, Tokio Terado, Kumi Okamoto, Sachiko Fukunaga (CRL) Microscopy Sample Preparation Room #2, 4th floor, CRL [on-site]
- Wednesday, September 11
- 14:00-15:20 Practical Use of MMC and IT Security for Medical Research (In Japanese) Kenji Shigetoshi, Takashi Ashihara (MultiMedia Center) Lecture Room A, 2nd floor, Basic Lecture and Practice Building [on-site/zoom/video]
- 15:30-16:50 Introduction to Modern Confocal Microscopy and its Applications (In English) Claudia Florindo, Toshiyuki Watanabe (Andor Technology, Oxford Instruments) Asahina K, Yamamoto T (CRL) Lecture Room A, 2nd floor, Basic Lecture and Practice Building [on-site/zoom/video]
- 17:00-18:20 Observation of Tissue Sections Using Microscope (In English/Japanese)

Asahina K, Yamamoto T, Mori Y, Terado T, Okamoto K, Fukunaga S (CRL) Confocal Laser Scanning Microscope Lab #2 & #4, 4th floor, CRL [on-site]

■ Thursday, September 12

 14:00-15:20 Principle and Application of Nuclear Magnetic Resonance Spectroscopy (In Japanese) Yasuyuki Mori, Yoshio Furusho (Division of Chemistry) Lecture Room A, 2nd floor, Basic Lecture and Practice Building [on-site/zoom/video]

- 15:30-16:50 Cytometry and Fluorescence Activated Cell Sorter (In English) Mariko Ikuo, Yoshiyasu Ooie (Nippon Becton Dickinson), Asahina K, Mori Y (CRL) Lecture Room A, 2nd floor, Basic Lecture and Practice Building [on-site/zoom/video]
- 17:00-18:20 Cytometry and Fluorescence Activated Cell Sorter (In English/Japanese) Ikuo M, Ooie Y (Nippon Becton Dickinson), Asahina K, Yamamoto T, Mori Y, Terado T, Okamoto K, Fukunaga S (CRL) Cell Engineering Lab #4, 4th floor, Central Research Laboratory [on-site]

■ Friday, September 13

• 14:00-15:20 Introduction to magnetic resonance imaging (MRI) in animals (In Japanese) Atsushi Yamada (Medical Innovation Research Center)

Lecture Room A, 2nd floor, Basic Lecture and Practice Building [on-site/zoom/video]

- 15:30-16:50 Introduction of Bioinformatics Next Generation Sequencer and RNA-seq (In Japanese) Yosuke Kadota, Takashi Ashihara (Information Technology and Management Center) MultiMedia Center, 1st floor, Browsing room [on-site]
- 17:00-18:20 Cell culture and passaging (In English/Japanese) Asahina K, Yamamoto T, Mori Y, Terado T, Okamoto K, Fukunaga S (CRL) Cell Culture Room, 4th floor, Central Research Laboratory [on-site]

Ref. CRL laboratories: http://www.crl.shiga-med.ac.jp/home/haichizu/crl_map_en.pdf