

Program of 2025 Intense Course in "Technical Seminar"

■ Tuesday, September 9

- 14:00-15:20 **Introduction of how to handle laboratory animals** (Lecture 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** (Lecture 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** (Practice in English/Japanese)
CRL staff
Microscopy Sample Preparation Room #2, 4th floor, CRL [[on-site](#)]

■ Wednesday, September 10

- 14:00-15:20 **Principle and application of mass spectroscopy** (Lecture and Practice in Japanese)
Yasuyuki Mori, Yoshio Furusho (Division of Chemistry)
Lecture Room A, 2nd floor, Basic Lecture and Practice Building [[on-site](#)]
- 15:30-16:50 **Introduction of laser fluorescence microscope** (Lecture in English)
Toshiyuki Watanabe (Oxford Instruments), CRL staff
Lecture Room A, 2nd floor, Basic Lecture and Practice Building [[on-site/zoom/video](#)]
- 17:00-18:20 **Observation of tissue sections using microscope** (Practice in English/Japanese)
CRL staff
Confocal Laser Scanning Microscope Lab #1 & #2, 4th floor, CRL [[on-site](#)]

■ Thursday, September 11

- 14:00-15:20 **Introduction to magnetic resonance imaging (MRI) in animals** (Lecture 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 **How to Use Flow Cytometer and Cell Sorter** (Lecture in English)
Mariko Ikuo, Yoshiyasu Ooie (Nippon Becton Dickinson Company, Ltd.), CRL staff
Lecture Room A, 2nd floor, Basic Lecture and Practice Building [[on-site/zoom/video](#)]
- 17:00-18:20 **How to Use Flow Cytometer and Cell Sorter** (Practice in English/Japanese)
Mariko Ikuo, Yoshiyasu Ooie (Nippon Becton Dickinson Company, Ltd.), CRL staff
Cell Engineering Lab #4, 4th floor, Central Research Laboratory [[on-site](#)]

■ Friday, September 12

- 14:00-15:20 **Practical Use of MMC and IT Security for Medical Research** (Lecture in Japanese)
Kenji Shigetoshi, Takashi Ashihara (Multimedia Center)
Computer Practice Room, 1st floor, Multimedia Center [[on-site/zoom/video](#)]
- 15:30-16:50 **Introduction of Bioinformatics: High-throughput sequencers and RNA-seq**
(Lecture and Practice in English)
Yosuke Kadota, Takashi Ashihara (Information Technology and Management Center)
Computer Practice Room, 1st floor, Multimedia Center [[on-site](#)]
- 17:00-18:20 **Cell culture and passaging** (Practice in English/Japanese)
CRL staff
Cell Culture Room, 4th floor, Central Research Laboratory [[on-site](#)]

CRL laboratory map: http://www.crl.shiga-med.ac.jp/home/haichizu/crl_laboratories.pdf

Multimedia center map: https://www.shiga-med.ac.jp/mmc/MMC_English_Guide.pdf