



Tokuyasu Workshop 2019

21st – 25th January 2019

Organisers

Prof. Masato Koike, Juntendo University, Tokyo
Dr. Bruno M. Humbel, Okinawa Institute of Science and Technology

Venue

Okinawa Institute of Science and Technology
1919-1 Tancha, Onna-son
Okinawa, 904-0495
Japan

Aim

The Tokuyasu cryo-sectioning method is a well-established technique in Cell Biology for the localisation of macromolecules by immuno-gold labelling. We will teach the essentials like chemical fixation and its impact on the cellular ultrastructure, how to judge the quality of antibodies and to do immunolabelling. The delegates will gain some experience in cryo-sectioning, however, need to practice in their own lab to get the necessary skills.

Interested delegates should apply with a short description of their current project and motivation to attend the course. The lectures are open to anyone but the practical part is limited to 12 participants.

Lecturers

Dr. Heinz Schwarz, Max-Planck-Institute for Developmental Biology, Tübingen, Germany.

Immunolabelling and Markers

Prof. Roland F. Fleck, King's College, London, UK.

Cryo-Preparations and Cryo-SEM

Prof. Masato Koike, Juntendo University Tokyo, Japan.

Basic Sample Preparation for Tokuyasu Cryo-Sectioning An Example of Application for Visualising Autophagy

Dr. Bruno M. Humbel, Okinawa Institute of Science and Technology, Onna-son, Japan

Chemical Fixation

Correlative Microscopy

Application

For the application please state name, affiliation, name of supervisor, phone number and e-mail address. Add a letter of motivation explaining your current research project and why you want to attend the course. This letter will help us to choose the applicants in case of oversubscribing.

The chosen delegates should prepare about 5 slides to introduce themselves and the project at the beginning of the course

Delegates who only want to attend the lectures also need to apply as the seats in the lecture theatre are limited.

The application should be sent to Ms. Mizuki Tokashiki,
Mizuki.Tokashiki@oist.jp.

Accommodation

Moon Beach: <https://hotelmoonbeach.moonhotelsandresorts.com/>

Sheraton Sun Marina: <https://sheraton-okinawa.co.jp/>

Kafuu: <https://www.kafuu-okinawa.jp/en/>

Rizzan: <https://www.rizzan.co.jp/english/index.html>

We made a preliminary reservation at hotel Moon Beach, Onna-son. Please let us know when you would like to profit from it.

In principle we work with well-established course samples. In case you want to bring your own, send a request stating the nature of the sample, data sheet of the antibodies, Western blots of the sample with the corresponding antibody and fluorescence images.

Costs

Course participation is free

Participants cover all other costs like transportation and accommodation

The course is supported by



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University)**