



High Resolution Episcopic Microscopy

Workshop 2019

The Division of Anatomy of Vienna, together with the Medical Imaging Cluster and the Correlated Multimodal Imaging Node Austria announces an international, hands on Tutorial on HREM imaging.

HREM is a rather new section-based technique for generating digital 3D volume data of a wide range of biological samples. HREM is established as a key technology for phenotyping embryos of genetically engineered mouse lines, but is also used for analysing embryonic and adult tissue samples of various other vertebrates and non-vertebrates.

The aim of this workshop is to introduce HREM to interested users, to offer tips and tricks for sample preparation, data generation and data analysis and discuss potential pitfalls, limitations and challenges.

The workshop is limited to 10 attendees. It combines lectures, expert demonstrations and hands-on sessions. The attendees will be supervised in working with commercially and customised HREM-setups.

Tutors

F Prin (Crick Institute, London, UK)

TJ Mohun (Crick Institute, London, UK)

Yuval Cinnamon (Agricultural Research Organization, Bet Dagan, Israel)

SH Geyer (Medical University of Vienna, Austria)

WJ Weninger (Medical University of Vienna, Austria)

Programme

Day 1

Welcome

Session 1 - Basics

- Introduction to HREM
- Sample preparation – theory
- Sample preparation – praxis

Session 2 - Data generation 1

- Data generation – theory
- Data generation – praxis
- Artefacts, pitfalls, trouble shooting

Day 2

Session 3 - Data generation 2

- Specifically stained tissues – theory & praxis
- High-resolution data generation – theory & praxis

Session 4 - Data handling

- Data management & storage
- Data processing & visualisation
- HREM & multimodal imaging pipelines

Wrap up

General information

Workshop date	Thursday 23/05/19 and Friday 24/05/19, 9:30-12.30 and 13.30-17.30
Location	Division of Anatomy, Medical University of Vienna Waehringer Str. 13, 1090 Vienna, Austria
Fee	€280,- (Fee covers Attendance, Coffee & Light Lunch)
Registration	Please send an e-mail to stefan.geyer@meduniwien.ac.at MedUni Wien will send an invoice (€280,-) a few days later Please pay this invoice for completing registration
Questions	Please contact SH Geyer (stefan.geyer@meduniwien.ac.at)