

Course Tissue Analysis from Traditional Methods to Modern Techniques

The Jena Biophotonics and Imaging Laboratory (JBIL) is organising a summer in cooperation with the Core Unit Biophotonics of the Center for Sepsis Control and Care (CSCC) at the University Hospital addressing tissue analysis. The course aims to train students in traditional and modern tissue analysis methods with practical sessions in traditional tissue microscopy and MALDI Imaging and to introduce state-of-the-art imaging methods by theory. This summer course is intended for PhD students with a background in life sciences, physics, chemistry or related disciplines. The number of participants is restricted to 12 students.

Date: 4th-5th September 2017

4th September 2017 Optical Microscopy

Venue: UKJ, Am Klinikum 1, FZL (F4), SR U1.013 and course room
8:30 a.m.-4:00 p.m.

Theory

Introduction to fluorescence microscopy and tissue analysis (Dr. Astrid Tannert¹)

Tissue analysis in the brain using IR and Raman-Microspectroscopy (PD Dr. Christoph Krafft²)

Non-linear methods in microscopy (Dr. Tobias Meyer²)

Practical session

1:00 p.m.-4:00 p.m. microscopy tissue slices

5th September 2017 MALDI Imaging

Venue: ZAF

9:00 a.m.-3:00 p.m.

Theory

Histopathology (Prof. Alexander Berndt³)

MALDI Imaging (Prof. Ferdinand von Eggeling⁴)

Practical session

10:00 a.m.-12:00 p.m. MALDI Imaging group 1

1:00 p.m.-3:00 p.m. MALDI Imaging group 2

Please register for the course until **21st August 2017** by sending the registration form to astrid.tannert@leibniz-ipht.de.

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² Leibniz Institute of Photonic Technology

³ Institute of Pathology, Jena University Hospital

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