ELMIK - Electron Microscopy with Image Processing (Blockpraktikum des Moduls ELMIK 19.-22.10.21)

Prof. Achilleas Frangakis - Dr. Anja Seybert

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Der Blockpraktikumsanteil des Moduls **ELMIK (Elektronenmikroskopie mit Bildverarbeitung)** von Prof. Achilleas Frangakis wird dieses Semester zusammen mit dem Max-Planck-Institut für Biophysik vom **19.-22.10.2021** durchgeführt**.** Das Blockpraktikum findet in englischer Sprache statt. Der Leistungsnachweis für das Blockpraktikum (Präsentation eines Forschungsartikels) kann, falls benötigt, nach Vereinbarung online oder in Präsenz nach dem Kurs stattfinden. Falls Sie Interesse an diesem Blockpraktikum haben, bitten wir **bis zum 01.10.2021** eine Email (bitte mit kurzer Angabe von Motivation, Vorkenntnissen, Studiengang und Semesterzahl) an folgende Emailadresse zu senden: **emprac@biophysik.org**

The practical course block part of the module **ELMIK (electron microscopy with image processing)** by Prof. Achilleas Frangakis will be carried out this semester together with the Max Planck Institute for Biophysics from **October 19-22, 2021**. The practical takes place in English. If needed, proof of performance for the practical (presentation of a research article) can take place online or in person by appointment some time after the course. If you are interested in this block practical, please send an email to the following email address by **October 1st, 2021** (please with a brief statement of motivation, previous knowledge, degree program and number of semesters): **emprac@biophysik.org**

Tue 19.10.2021			
group 1	group 2	group 3	group 4
09:00			
EM workflows introduction tutor introduction, tutorials overview			
09:45			
EM facility tour and lab safety		EM facility tour and lab safety	
10:30 coffee break			
11:00			
sample freezing	negative stain and TEM intro	SPA data acquisition	SPA data acquisition
13:00 lunch break			
14:00			
negative stain and TEM intro	sample freezing	SPA data acquisition	SPA data acquisition

Wed 20.10.2021			
group 1	group 2	group 3	group 4
09:00			
day overview			
09:15			
SPA data acquisition	SPA data acquisition	SPA 2D data processing	
11:00 coffee break			
SPA data acquisition	SPA data acquisition	SPA 2D data processing	
12:30 lunch break			
13:30			
SPA 2D data processing		sample freezing	negative stain and TEM intro
		15:00	
		negative stain and TEM intro	sample freezing

Thu 21.10.2021			
group 1	group 2	group 3	group 4
09:00			
day overview			
09:15			
lamella milling	tomo data acquisition	SPA 3D data processing	
10:45 coffee break			
11:00			
tomo data acquisition	lamella milling	SPA 3D data processing	
		Q&A or break	
12:30 lunch break			
13:30			
SPA 3D data processing		lamella milling	tomo data acquisition
15:00			
Q&A or break		tomo data acquisition	lamella milling

Fri 22.10.2021
group remix tomo/hands-on
09:00
day overview
09:15
tomo processing (alternative for non tomographists: Q&A/ hands-on EM)
11:00 coffee break
tomo processing (alternative for non tomographists: Q&A/ hands-on EM)
12:30 lunch break
13:30
tomo processing (alternative for non tomographists: Q&A/ hands-on EM)
15:00
Final discussion
Barbecue outside