



TEM SAMPLE PREPARATION COURSE (PART II) MAY 6TH-10TH 2019 COURSE PRELIMINARY PROGRAM 1,5 ECTS

PLEASE BRING ONE SAMPLE TO UCEM 29th April 2019

Day ONE - Monday 6th

08:30-9:00	Starting fixation protocol with participants samples (SH + AZ)
09:00-10:00	Introduction to practical protocols and lab-safety (SH)
10:00-12:00	Sample preparation, sectioning, tools and grids (SH + AZ)
Lunch	
13:00-16:30	Sample preparation, sectioning, tools and grids (SH + AZ + GV)

Day TWO - Tuesday 7st

08:30-09:00	Sample preparation, sectioning, tools and grids (SH + AZ + GV)
	Chemical fixation, plastic embedding and sectioning and staining (BH)
	Sample preparation, sectioning, tools and grids (SH + AZ + GV)
Lunch	
13:00-15:00	Demonstration high pressure freezing + automatic freeze
	substitution (SH + GV)
15:00-16:30	Sample preparation, sectioning, tools and grids (SH + AZ + GV)





Day THREE - Wednesday 8th

08:30-12:00	Sample preparation, sectioning, tools and grids (SH + AZ + GV)
Lunch	
13:00-13:30	Demonstration of microwave processing (SH)

13:30-16:30 Sample preparation, sectioning, tools and grids (SH + AZ + GV)

Day FOUR - Thursday 9th

08:30-10:30	Breakfast discussion: introduction to cellular localization in EM,
	immuno-gold labeling, CLEM, APEX (SH + AZ + GV + BH)
10:30-12:00	Sectioning – continuing, post staining and TEM (SH + AZ + GV)
Lunch	
13:00-15:00	Introduction to FIB-SEM "slice and view" (SH)
15:00-16:30	Sectioning – continuing, post staining and TEM (SH + AZ + GV)

Day FIVE - Friday 10th

08:30-9:30	Breakfast discussion: Electron tomography-3D visualization (CH)
9:30-12:00	Sectioning – continuing, post staining and TEM (SH + AZ + GV + LS)
Lunch	
13:00-14:30	Sectioning – continuing, post staining and TEM (SH + AZ + GV + LS)
14:30-15:00	Course evaluation (SH +AZ + GV)

TEACHERS

Sara Henriksson (SH) | *EM research engineer* Agnieszka Ziolkowska (AZ) | *EM research engineer* Gayathri Vegesna (GV) | *EM research engineer* Camilla Holmlund (CH) | *EM research engineer* Linda Sandblad (LS) | *EM facility director* Barbara Hübner (BH) | *Singapore, NTU*