



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) |
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| 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) |
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| | 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) |
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| 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, |
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| | 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) |
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| 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*