Cryo Electron Tomography in Structural Biology

22nd - 25th Nov 2021

Hosted virtually at eBIC - (GMT time zone) - Registration required



Organiser: Kyle Morris (eBIC)

| Day 1: Monday – 22 nd November | |
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| 09:45–10:00 | Virtual arrival: Introductions and welcome |
| 10:00-11:00 | Lecture 1: Cryo-ET - preparation, collection, reconstruction (Karen Davies, eBIC) |
| 11:00-12:00 | Lecture 2: Subtomogram averaging and reconstruction (Ben Himes, HHMI/UMassMed) |
| 12:00-12:30 | Lunch break |
| 12:30–15:00 | Practical 1: Molecular and cellular cryo-ET (eBIC) |
| 15:00–15:15 | Coffee break |
| 15:15–17:00 | Practical 1: Molecular and cellular cryo-ET (eBIC) |
| | Day 2: Tuesday – 23 rd November |
| 10:00–11:00 | Lecture 3: In-situ cryo-ET, cryo-FIB and cryo-CLEM (Michael Grange, RFI) |
| 11:00–12.00 | Lecture 4: Segmentation and interpretation of cellular tomography (Steve Ludtke, Baylor) |
| 12:00–12:30 | Lunch break |
| 12:30-15:00 | Practical 2: Molecular and lamella cryo-ET (eBIC) |
| 15:00–15:15 | Coffee break |
| 15:15–17:00 | Practical 2: Molecular and lamella cryo-ET (eBIC) |
| Day 3: Wednesday – 24 th November | |
| 10:00–12:00 | Practical 3: Processing & sub-tomogram averaging in IMOD/emClarity (eBIC/STRUBI) |
| 12:00-13:00 | Lunch break |
| 13:00–15:00 | Practical 3: Processing & sub-tomogram averaging in IMOD/emClarity (eBIC/STRUBI) |
| 15:00–15:15 | Coffee break |
| 15:15–16:30 | Practical 3: Processing & sub-tomogram averaging in IMOD/emClarity (eBIC/STRUBI) |
| Day 4: Thursday – 25 th November | |
| 10:00–10.45 | Practical 4-1: Cryo-CLEM demo (eBIC) |
| 10.45-11.00 | Short presentation: samples, correlative work, autorings |
| 11:00-12.00 | Practical 4-2: Cryo-FIB-SEM demo (eBIC) |
| 12:00-13:00 | Lunch break |
| 13:00–16:30 | Practical 4-2: Cryo-FIB-SEM demo (eBIC) |
| 15:00–15:15 | Coffee break |
| 15:15–16:30 | Practical 4-2: Cryo-FIB-SEM demo (eBIC) |
| 16:30 | Farewell and photo |
| End of Workshop | |

For the most up to date information please go to: