

**Monday 27th April:**

**Biological Cryo-imaging User Meeting: eBIC & B24**

*All times UK (BST)*

*Chair: Dan Clare (DLS)*

14:00            Welcome: **Martin Walsh (DLS)**

14:05            eBIC: *Update and future plans:* **Yun Song (DLS)**

14:30            B24: *Update and future plans:* **Chidinma Okolo (DLS)**

14:55            eBIC user talk: **Vicki Gold (Exeter)**

*A new twist on type IV pili - cryoEM reveals two distinct filaments assembled by the same bacterium*

15:20            eBIC user talk: **Ed Morris (ICR)**

*Cryo-EM and Mass Spectrometry analysis of the structural basis of cullin 2-RING E3 Ligase regulation by the COP9 signalosome*

*Chair: Maria Harkiolaki (DLS)*

15:45            B24 User talk: **Stefan Balint (Oxford)**

*T cell derived extracellular particles by Cryo-XRT*

16:10            B24 User talk: **Elizabeth Bolitho (Warwick)**

*Cryo-XRT of metallodrugs in prostate cancer cells*

16:35            *Break*

*Chairs: Sean Connell (CICbioGUNE) & Jamie Blaza (York)*

16:45            *eBIC User meeting discussion*

17:45            *End*



# CCP-EM Spring Symposium Online



All times UK (BST)

Tuesday 28th

Chair: Helen Saibil (Birkbeck)

- 14:00            *Opening and welcome*  
                  What's new in CCP-EM, eBIC & EMDB/EMPIAR
- 14:00            CCP-EM: **Agnel Joseph**
- 14:20            eBIC: **Yuriy Chaban**: Operational update and new developments
- 14:40            EMDB/EMPIAR: **Ardan Patwardhan**
- 15:00            *Break*
- 15:15            **Chris Russo (MRC-LMB)**  
                  *A purpose built single-particle electron cryomicroscope: what is needed?*
- 16:00            *End*

Wednesday 29th

Chair: Martyn Winn (CCP-EM/STFC)

- 14:00            **Andrea Thorn (Würzburg)**  
                  *Finding secondary structure in Cryo-EM maps: HARUSPEX*
- 14:20            **Morgan Beeby (Imperial)**  
                  *Evolution of bacterial flagellar motors studied by electron cryotomography*
- 14:50            **Hongyi Xu (Stockholm)**  
                  *3DED/MicroED - Electron Diffraction method for crystal structure determination of biomolecules*
- 15:20            *Break*
- 15:30            **Alex Noble (NYSBC)**  
                  *Neural network particle picking and denoising with TOPAZ*
- 16:00            **Adam Simpkin (Liverpool)**  
                  *MrBUMP: Redeployment of automated search model generation for map fitting in CryoEM*
- 16:20            *End*



Science and  
Technology  
Facilities Council



Medical  
Research  
Council

**All times UK (BST)**

Thursday 30th

*Chair: Neil Ranson (Leeds)*

- 14:00        **Christopher Aylett (Imperial)**  
*LAFTER and SIDESPLITTER - approaches for handling conformational flexibility and overfitting*
- 14:20        **Rouslan Efremov (VIB)**  
*High-throughput single particle data collection on cryoARM300*
- 14:50        *Break*
- 15:00        **Joe Atherton (KCL)**  
*Cryo-EM of Kinesin binding protein: challenges and opportunities from protein-surface interactions*
- 15:30        **Jose Miguel de la Rosa Trevin (Stockholm)**  
*New developments in Scipion 3.0: consolidating the project as a collaborative software framework*
- 15:50        **Miroslava Schaffer (MPI-Biochem)**  
*Cryo-FIB lift-out preparation for cryo-electron tomography*
- 16:30        *End*

Friday 1st

*Chair: Christos Savva (Leicester)*

- 14:00        **Jan Rheinberger (Groningen)**  
*Optimized data acquisition pipeline through ice thickness determination*
- 14:20        **Bertram Daum (Exeter)**  
*Investigating archaeal surface structures by CryoEM*
- 14:50        *Break*
- 15:00        **Luiza Mendonça (STRUBI)**  
*Subtomogram averaging of the dynamic HIV-1 SP1 6-helix bundle using emClarity*
- 15:20        **Dmitry Tegunov (MPI-BPC)**  
*New tools for high-resolution in situ cryo-electron tomography*
- 15:50        **Gaia Pigino (MPI-CBG)**  
*Towards a mechanistic understanding of ciliary assembly by CLEM and Cryo-Electron Tomography*
- 16:30        *End*