

SWSBC 2021 Online

| Day 1 - Wednesday 14 th July 2021 | | | |
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| 09:00-09:40 Ivo Tews (Southampton) | Plenary 1 | Peijun Zhang (Oxford) | HIV-1 capsid curvature and its interaction with host cell factor |
| 09:40-10:30 Bertram Daum (Exeter) | 09:45 | A. Teijeira Crespo (Cardiff) | Structure of the ChAdOx1 Virus Vaccine |
| | 10:00 | A. Neuhaus (Exeter) | Cryo-electron microscopy reveals two distinct type IV pili assembled by the same bacterium |
| | 10:15 | P. Gil Diez (Exeter) | Structure of the eukaryotic hibernating ribosome dimer from the microsporidia <i>Spraguea lophii</i> |
| 10:30-11:00 | Break | | |
| 11:00-11:30 | CCP4 talk | Kyle Stevenson (STFC) | Guide to the Offline Graphical Interfaces of CCP4 |
| 11:30-12:30 Bruce Lichtenstein (Portsmouth) | 11:30 | C. Cordery (Southampton) | Phylogenetic analysis with prediction of cofactor binding for <i>Pseudomonas aeruginosa</i> PAS domains. |
| | 11:45 | A. Agnarelli (Sussex) | Analysing IRF4 interactions to ISRE motifs in Multiple Myeloma |
| | 12:00 | J. A. Szeto (Bristol) | Characterising the structural and biophysical interactions between nonsense-mediated mRNA decay factors UPF2, UPF3B and RNA |
| 12:30-13:00 | Lunch | | |
| 13:00-14:00 | CCP4 Demo | Eugene Krissinel (STFC) | Solving Structures Online with CCP4 Cloud |
| 14:00-15:00 Enzymes 1 Michael Zahn (Portsmouth) | 14:00 | A. Macpherson (Bath) | The allosteric modulation of C5 by knob domain peptides |
| | 14:15 | L. Rooms (Bristol) | Structural and functional insights into PabB – the cellular target of abyssomicinC |
| | 14:30 | D. Hinchin (Portsmouth) | Engineering a cytochrome P450 for demethylation of lignin-derived aromatic aldehydes |
| 15:00-15:30 | Tea | | |
| 15:30-16:00 | CCPEM talk | C. Palmer (STFC) | The CCP-EM software suite for cryoEM |
| 16:00-16:30 | Poster pitches (3 min each): Steve Wood (UCL) & Mohinder Pal (Sussex) | | |
| 16:30-18:00 | Posters | | |
| 18:00 | Social | | |

| Day 2 - Thursday 15 th July 2021 | | | |
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| 09:00-09:40 Ivo Tews (Southampton) | Plenary 2 | D. Fearon (DLSLtd, RAL, LSCI) | Crystallographic fragment screening with the XChem platform at Diamond Light Source and hit-to-lead progression of novel SARS-CoV-2 Main protease inhibitors |
| 09:40-10:30 Enzymes 2 Ben Bax | 09:45 | X. Chen (Sussex) | Uncovering an allosteric mode of action for a selective inhibitor of human Bloom syndrome protein |

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| (Cardiff) | 10:00 | K. Goudar (Bristol) | Substrate and Inhibitor Interactions of Class D OXA β -lactamase |
| | 10:15 | S. Roy (Exeter) | A structural and mechanism insight into the mechanism of ROK kinases |
| 10:30-11.00 | Break | | |
| 11.00-11:30 | CCPN talk | V. Higman (Leicester) | CCPNmr Analysis Version-3: modern software for integrated NMR analysis |
| 11:30-12:30 Jean Van Den Elsen (Bath) | 11:30 | B. Conners (Exeter) | CryoEM structure of the outer membrane secretin channel pIV from the f1 filamentous bacteriophage |
| | 11:45 | N. Seetaloo (Exeter) | Synuclein plasticity: the Achilles heel to the onset of Parkinson's disease |
| | 12:00 | C. Collingham (Reading) | Novel bile acid derivatives as potential drugs for neurodegenerative disease |
| 12:30 Ivo Tews (Southampton) | Talk & Poster Prizes (Susan Crennell & Steve Wood) Goodbye | | |