

## PROGRAMME

### Morning Session (UK time)

- 10:00 Welcome morning session. Chair: **Asier Unciti-Broceta**
- 10:15 **Yasuteru Urano**, University of Tokyo, Japan. **Plenary**  
*Intraoperative rapid imaging of tiny tumors by novel fluorogenic probes for exopeptidases and glycosidases*
- 10:45 **Kimberly Bonger**, Radboud University, The Netherlands. **Plenary**  
*Bioorthogonal chemistry for targeted drug delivery*
- 11:15 **Shreyas S. Wagle**, Tel Aviv University, Israel. **Selected short talk**  
*Studying the reactivity of micellar nanoreactors by adjusting the hydrophobicity of the amphiphile and substrate*
- 11:30 **Kristine Bertheussen**, Leiden University, The Netherlands. **Selected short talk**  
*Using sterculic acid, a 1,2-substituted cyclopropene fatty acid, as a bioorthogonal label for fluorescence microscopy*
- 11:45 **Sam Benson**, University of Edinburgh, UK. **B&B2019 poster winner**  
*Photoactivatable metabolic warheads for photodynamic therapy*
- 12:00 End of morning session

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## PROGRAMME

### Afternoon Session (UK time)

13:00 Welcome afternoon session. Chair: **Marc Vendrell**

13:15 Flash presentation session

**4-min presentations**

**F1 Javier Idiago-López**, CSIC-University of Zaragoza, Spain

*Bioorthogonal chemistry on living cell membranes: creating hotspots for transient increase of living cell membrane permeability.*

**F2 Connor Śmieja**, University of Edinburgh, UK

*Discovery of hits against UBE2C from fluorine fragment libraries.*

**F3 María Sancho-Albero**, Mario Negri Institute for Pharmacological Research, Italy

*Exosome based biohybrids for targeted bioorthogonal catalysis against cancer.*

**F4 Ward Doelman**, Leiden University, The Netherlands

*Synthesis and introduction of DC-SIGN binding glyco-asparagine building blocks to immunodominant peptides.*

**F5 Soraya Learte-Aymamí**, University of Santiago de Compostela, Spain

*Intracellular reactions promoted by bis(histidine)miniproteins stapled using Palladium(II) complexes.*

**F6 Thomas Bakkum**, Leiden University, The Netherlands

*Bioorthogonal correlative light-electron microscopy of M. tuberculosis in macrophages reveals the effect of anti-tuberculosis drugs on subcellular bacterial distribution.*

**F7 Alejandro Gutiérrez-González**, University of Santiago de Compostela, Spain

*Light activation of ruthenium complexes for catalysis in biological environments.*

**F8 Stefano Fedeli**, University of Massachusetts Amherst, USA

*Bioorthogonal polyzymes for the treatment of bacterial biofilms.*

**Q&A for Flash presentation session**

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## PROGRAMME

### Continuation of Afternoon Session (UK time)

- 14:00 **Joan Miguel Ávila**, University of Santiago de Compostela, Spain. ***Selected short talk***  
*Ruthenium promoted [2+2+2] cycloadditions inside mammalian living cells*
- 14:15 **Eliézer Jäger**, Academy of Sciences of the Czech Republic, Czechia. ***Selected short talk***  
*Enhanced antitumor efficacy through an “AND gate” ROS-dependent pH-responsive nanomedicine approach*
- 14:30 **Elena Goun**, University of Missouri, USA. ***Plenary***  
*Unravelling cancer metabolism using Staudinger ligation*
- 15:00 **Thomas Ward**, University of Basel, Switzerland. ***Plenary***  
*Artificial metalloenzymes for in vivo catalysis: Challenges and opportunities*
- 15:30 Announcement of the Flash presentation prize by the RSC Chemical Biology and Bioorganic Group.
- 15:40 Concluding remarks and End of symposium