



Drug Discovery 2017

ACC, LIVERPOOL

3rd - 4th October 2017

ADVANCES IN IMAGING
Tuesday 3rd October 2017: HALL 1B

Session Chairs

Richard Bayliss (University of Leeds) & **Neil Carragher** (University of Edinburgh)

New advances in, whole body, microscopic and molecular imaging hardware, functional imaging biosensors and sophisticated image-analysis and image-informatics methods are transforming the application of functional biology towards previously unattainable levels of high spatial, temporal and molecular resolution. Such developments are well placed to advance translational research studies applicable to multiple aspects of drug discovery and drug development phases. Imaging applications in drug discovery include: Clinical and preclinical proof-of-concept studies; Enabling the development and application of more complex and disease relevant cell- and tissue-based models; Target identification; Target validation and Innovative chemical design.

In this special session of Advances in Imaging we present a series of presentations from prominent experts engaged in the development and application of the latest imaging technologies. The session presentations will follow in the sequence of whole body clinical and preclinical imaging to new 3D organoid models for drug discovery, biomarker discovery and development, cell and sub-cellular imaging for high throughput phenotypic profiling and molecular imaging of macromolecular complexes and single molecules. We anticipate a series of innovative talks and lively discussion on how the latest state-of-the art in imaging can impact upon future drug discovery and drug development strategies.

CONFIRMED SPEAKERS

Tony Ng (Kings College London) - **Session Keynote**

Shonit Punwani (Centre for Medical Imaging, UCL)

Kevin Brindle (CR UK Cambridge Institute)

Bram Herpers (Ocello B.V.)

Neil Carragher (University of Edinburgh)

Neil Ranson (University of Leeds)

Charlotte Dodson (Imperial College)

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