



2018 WORLD BIODISCOVERY CONGRESS

SCIENTIFIC PROGRAMME

24th - 26th July



Venue: Dalhousie Building, University of Dundee 75 Old Hawkhill, Dundee DD1 5EN,



DAY 1 (TUESDAY)

24 JULY

AFTERNOON

14:30 – 15:30

Registration

15:30 – 16:15

Opening ceremony and Keynote lecture - Innovation-led biomedical teaching and research, Professor Sir Pete Downes, Principal, University of Dundee

16:15 – 16:25

Q&A

16:25 – 16:50

Technology presentation - Advancing molecular interaction analysis beyond simple kinetics: Characterizing protein conformation, enzymatic activity, and bispecific binders with dual-probe nanolevers, Dr Sebastian Letscher, Dynamic Biosensors

16:50 – 17:00

Q&A

17:00 – 17:10

Civic reception – welcome address by the Lord Provost of Dundee

17:10 – 18:30

Drinks reception



DAY 2 (WEDNESDAY)

25 JULY

MORNING

Session Chairs: Prof. Jim Bown, Dr Kimberley Bennett

09:30 – 10:15

Plenary Lecture

Computer games for cancer systems ecology. Professor Jim Bown, Abertay University.

10:15 – 10:45

Technology presentation

Diagenode – high quality and time saving NGS workflows. Dr Emilia Danilowicz-Luebert, Diagenode

10:45 – 11:15

Coffee break and exhibition viewing

11:15 – 12:00

Plenary Lecture

Comparative physiology in biodiscovery: what can we learn from natural experts in breath hold diving and fat metabolism. Dr Kimberley Bennett, Abertay University

12:00 – 12:30

Technology Presentation

Power a new future in molecular genomics: nanoscale reactions, real savings. Dr Nick Jordan, Fluidigm UK

12:30 – 13:30

Lunch and exhibition viewing

AFTERNOON

Session Chairs: Dr Daniella Zheleva, Dr Jean-Christophe Bourdon

13:30 – 14:15

Plenary Lecture

CYC065, a novel CDK inhibitor, inhibits key pro-survival and oncogenic pathways in cancer. Dr Daniella Zheleva, Cyclacel Pharmaceuticals

14:15 – 15:00

Plenary Lecture - How the p53 splice variants (p53 isoforms) turn the p53 paradigm upside down. Dr Jean-Christophe Bourdon, University of Dundee

15:00 – 15:45

Technology Presentation – Onorach ensuring your clinical trial stay on track. Mandy Peden, Onorach

15:45 – 16:15

Coffee break and exhibition viewing

16:15 – 16:45

Lecture - Arylalkanolamines as Sigma 1 Receptor antagonists useful for the treatment of neuropathic pain. Identification of hit compound MCL-752, Giacomo Rossino¹, Marta Rui¹, Annamaria Marra^{1,2}, Marco Peviani^{3,4}, Daniela Curti⁴, Guido Cavaletti⁵, Giulio M. Dondio², Marcello Di Giacomo¹, Daniela Rossi¹, Prof. Simona Collina¹, ¹ Department of Drug Sciences, University of Pavia, ² Aphad analytical solutions, Milano, ³ Harvard Medical School, ⁴ Department of Biology and Biotechnology “L. Spallanzani”, University of Pavia, ⁵ University of Milano.

16:45 – 17:15

Technology Presentation - A practical solution to data Integrity & pharmacopeia guidelines, Dr Guy Travers, Anton Paar UK

19:00 – 24:00

Congress dinner (Hannah Maclure Centre, Abertay University)



DAY 3 (THURSDAY)

26 JULY

MORNING

Session Chairs: Prof. Nikolai Zhelev, Dr Yusuf Deeni

09:30 – 10:15

Plenary Lecture

Nrf2-antioxidant response pathway may be putting a break on the action and effectiveness of RTK inhibitors against ovarian cancer. Dr Yusuf Deeni, Abertay University

10:15 – 10:45

Coffee break and exhibition viewing

10:45 – 11:30

Plenary Lecture - New Generation technologies in drug discovery and development, Prof. Nikolai Zhelev, Abertay University

11:30 – 12:00

Lecture

Agro-allied chemicals, Environmental Xenobiotics and Insecticides Resistance in *Anopheles gambiae* in Nigeria, Dr Habibu U. Abdu, Federal College of Education (Technical) Bichi, Kano

12:00 – 13:00

Lunch and exhibition viewing

AFTERNOON

Session Chairs: Prof. Nikolai Zhelev, Dr Yusuf Deeni

13:00 – 13:30

Lecture

Neferine as a chemo-sensitizing agent against doxorubicin resistant human lung adenocarcinoma cells. Dr Poornima Paramasivan, Abertay University

13:30 - 14:00

Lecture

Manipulation of p53 isoforms to define colon cancer cell response to a new drug thought to restore wild-type p53 conformation Carly Bojsza, Abertay University

14:00 - 14:30

Lecture

Bexarotene Downregulates HER1 Signalling Pathway via NRF2-mediated inhibition to modulate the Sensitivity of Ovarian Cancer Cells to Lapatinib, Dr Ibrahim Hamza Kankia¹, Dr Hilal S Khalil² Dr Simon P Langton³, Dr Yusuf Deeni² ¹Umaru Musa Yar'adua University, ²Abertay University, ³University of Edinburgh

14:30 – 15:00

Lecture

Virtual patient simulations for cardiology education and research: A CircAdapt perspective. Dimitar Trifonov Maastricht University, National Research Tomsk State University

15:00 – 16:00

Closing ceremony and university laboratory visits