

II INTERNATIONAL CONFERENCE ON  
**CLINICAL SCIENCES AND DRUG DISCOVERY**

*Drug discovery and development to clinical trials*



**July 27-29, 2016**

***Venue***

*Dalhousie Building  
University of Dundee  
Old Hawkhill, Dundee DD1 5EN  
Scotland, UK*

- 08:30 - 09:00 Registrations
- 09:00 - 09:15 Introduction by Prof. Nikolai Zhelev, Conference Chairman
- 09:15 - 09:30 Opening by Prof. Nigel Seaton, Principal, Abertay University, UK

09:30 - 10:15 **Plenary Lecture**

**Kinase Inhibitors: Major Drugs for the 21st Century**  
Prof. Sir Philip Cohen, University of Dundee, UK

10:15 - 10:35 **Coffee Break**

10:35 - 13:05 Keynote Session I

**Chairs:**

Thomas D.Y. Chung, Mayo Clinic, USA  
Paul Wyatt, University of Dundee, UK

- 10:35-11:00 **New Models of Translational Research at the Mayo Clinic through the Office of Translation to Practice**  
Thomas D.Y. Chung, Mayo Clinic, USA
- 11:00-11:25 **10 Years of Drug Discovery, With A Lot of Help from Our Friends**  
Paul Wyatt, University of Dundee, UK
- 11:25-11:50 **Transitioning to Clinical Trials: Getting it Right**  
Stephen Leiper, Onorach Clinical, UK
- 11:50-12:15 **Either TLRs and PAMPs or Inflammasome and Immuno Metabolomics**  
Luke O'Neill, The University of Dublin, Ireland
- 12:15-12:40 **History of Bio-Pharm Biotech Industry**  
Kevin Johnson, Medicxi Ventures, UK
- 12:40-13:05 **Splicing Factors as Novel Therapeutic Targets in Cancer**  
William T. Beck, University of Illinois, USA
- 13:05-14:05 **Lunch**
- 14:05 - 16:35 Keynote Session II

**Chairs:**

Howard Stevens, Bio-Images Drug Delivery Ltd., UK  
Philip Huxley, Ducentis Biotherapeutics Ltd., UK

- 14:05-14:30 **Visualisation of Drug Formulations in Man - The Role of Gamma Scintigraphy in Understanding Performance**  
Howard Stevens, Bio-Images Drug Delivery Ltd., UK
- 14:30-14:55 **Accessing a Novel Immunotherapeutic Paradigm**  
Philip Huxley, Ducentis Biotherapeutics Ltd., UK
- 14:55-15:20 **Selective BET Bromodomain Inhibition as a Novel Anti-Fungal Strategy**  
Charles E. McKenna, University of Southern California, USA
- 15:20-15:45 **Combination of Research Strategy and the Statistical Approaches in Biomarker Evaluation**  
Ziding Feng, MD Anderson Cancer Center, USA
- 15:45-16:10 **Imaging Drug Distribution and Consequences from Tissues to Cells Using Mass Spectrometry**  
Andrew West, GlaxoSmithKline, UK

16:10 - 16:35 Targeting the DNA Repair Pathways in Cancer  
Derek Richard, Queensland University of Technology, Australia

16:35 - 17:00 Coffee Break

17:00 - 18:00 Poster Presentations (See Annexure)

18:30 - 19:30 Lord Provost Civic Reception at Dundee City Chambers, City Square, Dundee, UK

## Day-2 | July 28, 2016 | Thursday

08:30 - 09:00 Registrations

09:00 - 10:40 Keynote Session III

### Chairs:

Nikolai Zhelev, Abertay University, UK  
Jim Bown, Abertay University, UK

09:00 - 09:25 Recent Advances and Novel Approaches in The Discovery and Development of Kinase Inhibitors as New Therapeutics in Oncology and Cardiology  
Nikolai Zhelev, Abertay University, UK

09:25 - 09:50 Designing Anti-Cancer Combination Therapies: A Toolkit for Interactive Animation  
Jim Bown, Abertay University, UK

09:50 - 10:15 Next Generation Molecular-Genetic Technologies in Medicine  
Irma Mosse, NAS Belarus, Belarus

10:15 - 10:40 Innate Defense Against HIV Through APOBEC DNA Mutagenic Enzymes  
Harold Smith, University of Rochester, USA

10:40 - 11:00 Coffee Break

## Workshop

11:00 - 11:20 Introduction: Special Session on "Host Cell Factors as Therapeutics and Drug Targets" by  
Harold Smith, University of Rochester, USA

11:20 - 11:40 Targeting Cancer Evolvability  
Reuben S. Harris, University of Minnesota, USA

11:40 - 12:00 Novel Immune Oncology Therapeutics from the Ubiquitin Pathway  
Tauseef R. Butt, Progenra Inc., USA

12:00 - 12:20 Roles of Long Noncoding RNAs in HIV Replication  
Andrew Rice, Baylor College of Medicine, USA

12:20 - 12:40 Targeting Injury-Triggered Signaling Pathways by Curcumin in Burns, Surgical Scars and Psoriasis  
Madalene Heng, UCLA School of Medicine, USA

12:40 - 13:00 Comparative Cancer Cell Line Profiling Reveals Different and Common Mechanisms of Anti-Cancer Agents  
Joost Uitdehaag, NTRC, Netherlands

13:00 - 14:00 [Lunch Break](#)

14:00 - 17:20 [Featured Presentations I](#)

**Chairs:** [William Henry Colledge, University of Cambridge, UK](#)  
[Alan D. Rogol, University of Virginia Medical School, USA](#)

14:00 - 14:20 [Neuroendocrine Control of Puberty and the Possible Clinical Uses for Kisspeptin](#)  
[William Henry Colledge, University of Cambridge, UK](#)

14:20 - 14:40 [Long-acting Growth Hormone Formulations: Structure and Activity](#)  
[Alan D. Rogol, University of Virginia Medical School, USA](#)

14:40 - 15:00 [Not Paper OR Digital Records, but Paper AS Digital Records](#)  
[Stephen Leiper, Onorach Clinical, UK](#)

15:00 - 15:20 [Addressing the Challenges for a 6-Monthly Injection of an Anti-Vegf Biologic in the Eye?](#)  
[Ian R. Catchpole, GlaxoSmithKline, UK](#)

15:20 - 15:40 [Exploring New Strategies to Overcome the Drug Death Valley in Oncology](#)  
[C. Nardon, University of Padua, Italy](#)

15:40 - 16:00 [DHA Ameliorates the Profile of Rat Endotoxin-induced Uveitis through Increase of RvD1 and Local Autophagic Response](#)  
[Rosanna Filosa, University of Naples, Italy](#)

16:00 - 16:20 [Coffee Break](#)

16:20 - 16:40 [Identifying Novel GPR55 Inhibitors](#)  
[Anavi-Goffer Sharon, Ariel University, Israel](#)

16:40 - 17:00 [Biomufacturing of Pharmaceutical Colchicine](#)  
[Ganapathy Sivakumar, University of Houston, USA](#)

17:00 - 17:20 [Proteome Scale Structural Bioinformatics Platforms in Drug Discovery](#)  
[Jonathan G.L. Mullins, Swansea University/Moleculomics Ltd., UK](#)

17:30 - 19:00 [Dundee City Walk Tour](#)

20:00 - 23:00 [Social Dinner and Scottish Country Dancing in Bar One, Abertay University](#)

09:00 - 13:00      Featured Presentations II

**Chairs:**              Clive Wilson, University of Strathclyde, UK  
                             Charles E. McKenna, University of Southern California, USA

- 09:00 - 09:20      **Nanotherapeutics Area Delivery Through the Gut Via Oral Drug Delivery**  
Clive Wilson, University of Strathclyde, UK
- 09:20 - 09:40      **The European Lead Factory – A Successful Model of International Academic-Industrial Collaboration in Drug Discovery**  
Phil Jones, University of Dundee, UK
- 09:40 - 10:00      **Drug Development Under Pressure: Applications of Pressure Cycling Technology in Biopharmaceutical Discovery and Development**  
Bradford Powell, Cernomics Solutions, USA
- 10:00 - 10:20      **Biomarkers Usher in Era of Personalized Medicine for Patients with WHO Grade II & III Gliomas**  
Erica Hlavin Bell, The Ohio State University, USA
- 10:20 - 10:40      **The Joint European Compound Library: Precompetitive Collaboration Boosting Drug Discovery**  
Andrew Pannifer, University of Dundee, UK
- 10:40 - 11:00      **Coffee Break**
- 11:00 - 11:20      **Flow Cytometry Standardization Challenges in the Context of Global Clinical Trials**  
Nicolas Anfossi, Covance Inc., Switzerland
- 11:20 - 11:40      **Seals as Models for Obesity: Insights and Challenges from Champions of Fat Deposition**  
Kimberley Bennett, Abertay University, UK
- 11:40 - 12:00      **Antifungal Styrylquinolines as CDR1 Inhibitors**  
Robert Musiol, University of Silesia, Poland
- 12:00 - 12:20      **HCV Genotyping and Resistance-Associated Variants Detection Using Next-Generation Sequencing**  
Michael Rossbach, Vela Diagnostics Pte. Ltd., Singapore
- 12:20 - 12:40      **Surveillance for Hepatitis B Virus Surface Antigen in a Northern Nigerian Population: An Advocacy for Aggressive Vaccination**  
Mukhtar Dauda, Bayero University, Nigeria
- 12:40 - 13:00      **Structural Characterization Disease Related Antibodies with Solution Small Angle X-Ray Scattering**  
Mellissa A. Graewert, EMBL, Hamburg Outstation, Germany
- 13:00 - 14:00      **Lunch**

14:00 - 16:40 Featured Presentations III

**Chairs:** Nikolai Zhelev, Abertay University, UK  
Bradford Powell, Cernomics Solutions, USA

- 14:00 - 14:20 **Novel Drug-discovery Strategies Using Multi-Omics Patient-Centric Biobanks**  
Lasse Folkersen, Technical University of Denmark, Denmark
- 14:20 - 14:40 **Computer-aided Multi-Target Drug Design and Inhibition Mechanism Studies of Human Chymase via Systems Biology, Molecular Modelling and QM Approaches**  
Mahreen Arooj, Curtin University, Australia
- 14:40 - 15:00 **A Convenient Assay for  $\alpha$ -Methylacyl-CoA Racemase Activity and Testing of Inhibitors**  
Matthew Lloyd, University of Bath, UK
- 15:00 - 15:20 **Synthesis of Anti-Cancerous PEG-PLA Nanoparticles and the Effect of Varying Poly (Vinyl Alcohol) Concentration on their Characteristics**  
Salam Massadeh, King Abdulla International Medical Research Center (KAIMRC), Saudi Arabia
- 15:20 - 15:40 **Quantitative Systems Pharmacology to Study and Understand Ovarian Cancer Cells and to Inform Treatment Design**  
Yusuf Deeni, Abertay University, UK
- 15:40 - 16:00 **Targeting Non-AR Mediated Adaptive Response to Therapy in Advanced Prostate Cancer**  
Kirsi Ketola, Vancouver Prostate Centre, Canada
- 16:00 - 16:20 **Combination of Bio-physical Modalities and Chemotherapeutics in Cancer Therapy**  
Timur Saliev, Nazarbayev University, Kazakhstan
- 16:20 - 16:40 **Novel Treatment for Drug Resistance Offers New Hope for Stage IV Hematological and Specific Tissue Malignancies**  
Kathryn Leake, Oncology Solutions, USA

## Departures

### Poster Presentations

### Annexure

- P-01 **Screening an Archetypal Collection of Microorganisms for the Presence of Unexplored Antimicrobial Compounds**  
Lucia Cimarelli, University of Camerino, Italy
- P-02 **Long-term Results of Treatment for Primary Hyperparathyroidism with Primary Renal Type of Disease**  
I. Ismailov, Uzbekistan Public Health Ministry, Uzbekistan
- P-03 **Rational Use of Medicines: Prescribing Indicators at Different Levels of Health Care**  
El Sayed Ahmed Baraya, Primary Health Care Corporation, Qatar
- P-04 **Big Data Visualization and Analysis of HTS and Broad Kinase Panel Profiling Using “Elpis Map” as a Novel User-friendly Application**  
Rena Nishizawa, Ono Pharmaceutical Co., Ltd. Japan

- P-05 **New Aspects in Pathogenesis of Perinatal Hypoxia / Asphyxia (PH) in Newborns**  
Balykova L., Ogarev Mordovia State University, Russia
- P-06 **Synthesis and Antiproliferative Activity Studies on New Amide Derivatives Carrying Sulfonamide Moiety**  
Sevda Turk, Marmara University, Turkey
- P-07 **Change Morphometric and Oxygen-Binding Properties of Erythrocytes in Vascular Diseases Patients**  
Nadezda Revina, Ogarev Mordovia State University, Russia
- P-08 **Rational Use of Medicines: Prescribing Indicators at Different Levels of Health Care**  
Mahmoud, Primary Health Care Corporation, Qatar
- P-09 **Isolation, Cloning and Characterization of the Promoter Regions of Human HER1 and HER4 Genes**  
Ibrahim H. Kankia, Abertay University, UK
- P-10 **A study on the AMACR Catalysed Elimination Reaction and its Application to Inhibitor Testing**  
Matthew D. Lloyd, University of Bath, UK
- P-11 **Drug Resistance of Cancer Cells is Crucially Affected by Expression Levels of ABC-transporters**  
Petr Mlejnek, Palacky University Olomouc, Czech Republic
- P-12 **New Metal Complexes with Novel Anticancer Activity**  
Mohamed Fahad AlAjmi, King Saud University, Saudi Arabia
- P-13 **Lemon Grass (*Cymbopogon citratus*) Essential Oil as a Potent Anti-inflammatory Drug**  
Mohamed Nadjib Boukhatem, University of Blida, Algeria
- P-14 **Impact of Time and Temperature on Bortezomib-induced Apoptosis in Blood Cancer Cells**  
Timur Saliev, Nazarbayev University, Kazakhstan
- P-15 **Evaluating the Baseline Responses of *Anopheles gambiae* to Some Insecticides Commonly Used in the Control of Malaria Vector in Bichi, Northern Nigeria**  
Habibu U. Abdu, Federal College of Education (Technical) Bichi, Nigeria
- P-16 **An Investigation into the Ubiquitin Proteasome System Identifying Potential Therapy Targets for Cutaneous Squamous Cell Carcinoma in Recessive Dystrophic Epidermolysis Bullosa Patients**  
Frances Hunt, Abertay University, UK
- P-17 **Evaluating the Potential of a Novel "Mini Hearts" Assay for Research and Drug Screening in Cardiology**  
Lewis Reynolds, Abertay University, UK
- P-18 **Exploring a New Method of Clinical Oestrogen Production**  
Melody Dickens, Abertay University, UK
- P-19 **Clinical-Genetics Aspects of Clopidogrel Treatment**  
Alexander Zuraev, National Academy of Sciences of Belarus, Belarus

Supporting Organization



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at  
EPDD- 2017*



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