

Annual Scientific Meeting 2018



# *One Health and Wellness*

9<sup>th</sup> to 11<sup>th</sup>  
July 2018

## SCIENTIFIC PROGRAMME

### Scientific Programme

Kathryn Lilley

Andy Pitt

Stephen Pennington

### Organizing Committee

Chris Sutton

Tim Palmer

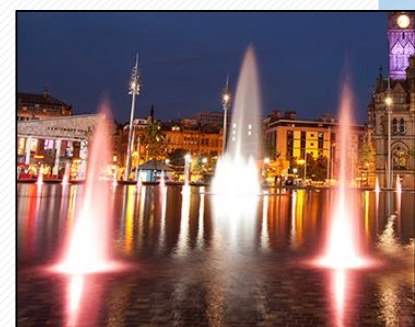
Rainer Cramer

John Timms

Roz Jenkins



UNIVERSITY of  
**BRADFORD**



# Annual Scientific Meeting 2018



## *One Health and Wellness*

### Plenary Speakers

**Daniel Chan**  
**Chuna Ram Choudhary**  
**Julia Chamot-Rooke**  
**Angus Lamond**

Johns Hopkins School of Medicine, USA  
 University of Copenhagen, Denmark  
 Institut Pasteur, France  
 University of Dundee, UK

### Keynote Speakers

**Claire Evers**  
**Paul Skipp**  
**Kathryn Lilley**  
**Ben Collins**  
**Emøke Bendixen**  
**Stephen Gordon**  
**Henning Hermjakob**  
**Paul Cutler**

University of Liverpool, UK  
 University of Southampton, UK  
 University of Cambridge, UK  
 ETH, Zurich, Switzerland  
 University of Aarhus, Denmark  
 UCD Conway Institute, Ireland  
 EMBL-EBI and National Center for Protein  
 Sciences, Beijing, China  
 UCB Pharma, UK

### Programme Outline

#### Day 1; 9<sup>th</sup> July 2018

9.00 – 11.00	Exhibition set-up
10.00 – 11.00	Registration/poster set-up*
11.00 – 11.15	Welcome

\*NB no coffee/tea in the morning as  
 this can be obtained from nearby  
 coffee shop in the Atrium

**Steve Pennington**

# Annual Scientific Meeting 2018



## 11.15 – 12.00 Plenary 1

**Chair: Steve Pennington**

Dan Chan, Johns Hopkins University

*'Cancer proteomics: from biomarker discovery to clinical diagnostics'*

## 12.00 – 12.45 Plenary 2

Julia Chamot-Rooke, Institut Pasteur

*'Deciphering bacterial nanomachines with structural mass spectrometry'*

## 12.45 – 14.00, Lunch/Poster/Exhibition

## 14.00 – 15.30 Session – Theme 1, One Health I

### 14.00 – 14.30 Keynote 1

**Chair: Paul Cutler**

Emøke Bendixen, Aarhus University

*'Exploring farm animal proteomes, and their relevance to human health.'*

### 14.30 – 14.50,

Juan Antonio Vizcaino, EMBL-European Bioinformatics Institute

*'Developing open data analysis pipelines in the cloud: Enabling the 'big data' revolution in proteomics'*

### 14.50 – 15.10

James Waddington, University of Liverpool

*'Characterisation of the HLA-B\*57:01 peptide repertoire in further understanding the immunopeptidome in flucloxacillin related drug induced liver injury'*

# Annual Scientific Meeting 2018



**15.10 – 15.30**

**Chair: Paul Cutler**

Yuting Yin, University College Dublin

*'Functionality and cellular localization of virulence associated proteins (vap) of Rhodococcus equi.'*

**15.30 - 16.30, Tea/Coffee break/Poster/Exhibition**

**16.30-18.00 Session, Theme 2 – PTMs and chemical**

**modification**

**Chair: Chuna Choudhary**

**16.30 – 17.00 Keynote 2**

Claire Evers, University of Liverpool

*'The expanding landscape of human phosphorylation'*

**17.00 – 17.20**

Sara Zanivan, CRUK Beatson Institute

*'How to exploit highly abundance reduced cysteine to accurately measure cysteine oxidation: relevance for global redox-signalling analysis in diseases'*

**17.20 – 17.40**

Andrew Pitt, University of Aston

*'Lipoxidation: identification of proteins and peptides post-translationally modified with hydrophobic lipid oxidation products'*

**17.40 – 18.00**

Pedro Beltran Alvarez, University of Hull

*'Arginine methylation: an essential PTM in the cardiovascular system'*

**18.15 – 20.00, Wine reception/appetisers, Cartwright Hall**

# Annual Scientific Meeting 2018



Day 2; 10<sup>th</sup> July 2018

## **9.00-10.30 Session – Theme 3, Spatial proteomics**

### **/interactomics**

*Chair: Angus Lamond*

#### **9.00 – 9.30 Keynote 3**

Ben Collins, ETH Zurich

*‘Quantitative interaction proteomics: Insights into integrated stress response and host-pathogen biology’*

#### **9.30 – 9.50**

Matthias Trost, University of Newcastle

*‘Characterisation of the phagosome ubiquitinome of activated macrophages reveals a novel role for RNF115 in innate immunity’*

#### **9.50 – 10.10**

Emily Bowler, University of Southampton

*‘Delineating Glycogen-Synthase Kinase 3 Beta (GSK3 $\beta$ ) protein networks in colorectal cancer through precision knockout coupled to high resolution LC-MS/MS’*

#### **10.10 – 10.30**

James Schofield, University of Southampton

*‘Topological Data Analysis (TDA) to classify protein subcellular localisation using LOPIT (localisation of organelle proteins by isotope tagging)’*

#### **10.30 – 11.15, Tea/Coffee break/Poster/Exhibition**

# Annual Scientific Meeting 2018



**Day 2; 10<sup>th</sup> July 2018**

## **11.15 – 12.45 Session, Theme 4 – emerging technologies / computational proteomics**

**11.15 – 11.45 Keynote 4**

**Chair: Juan Vizcaino**

Henning Hermjakob, EMBL-EBI

*'Reactome Multi-Scale Pathway Visualisation'*

**11.45 – 12.05**

John Wilson, Cold Spring Harbor Laboratory

*'Universal S-Trap sample processing for standardized bottom up proteomics'*

**12.05 – 12.25**

Stephen Lock, SCIEX

*'How does CE-MS compare with LC-MS in PTM analysis?'*

**12.25 – 12.45**

Rainer Cramer, University of Reading

*'Liquid AP-MALDI-Q-IMS-TOF MS - a new MS method for proteomics and bioprofiling'*

**12.45 – 14.15, Lunch/Poster/Exhibition**

**14.15 – 15.00 Session, Theme 5 – data integration/systems level proteomics**

# Annual Scientific Meeting 2018



**Day 2; 10<sup>th</sup> July 2018**

## **14.15 – 14.45 Keynote 5**

**Chair: Rob Ewing**

Paul Skipp, University of Southampton

*'The "Shape" of Asthma'*

## **14.45 – 15.05**

Vadim Demichev, University of Cambridge and the Francis Crick Institute

*'Application of deep neural networks to the analysis of DIA-MS data'*

## **15.05 – 15.25**

Michael Nelson, the University of Manchester

*'Direct detection of stop codon read-through events using proteomics in Drosophila melanogaster'*

## **15.25 – 15.45**

15.45 Hanqing Liao, University of Bristol

*'A Sparse Regression Model for Mass Spectrometry Spectral Library Identification'*

## **15.45 – 16.15 Tea/Coffee break/Poster/Exhibition**

## **16.15 – 17.00 BSPR AGM**

## **17.00 – 17.45 Plenary 3**

**Chair: Kathryn Lilley**

Angus Lamond, University of Dundee

*'Deep Proteomes, iPS cells & Data Mountains'*

## **19.00 – 22.00 Conference dinner, "The Kathryn Lilley Quiz"**

# Annual Scientific Meeting 2018



Day 3; 11<sup>th</sup> July 2018

## 9.00-10.10 Session, Theme 6 – One Health II

**9.00 – 9.30** Keynote 6

*Chair: Emøke Bendixen*

Steve Gordon, University College Dublin

'TBC'

**9.30 – 9.50**

TBC

**9.50 – 10.10**

H. Alexander Ebhardt, University College Dublin

*'Returning to health following diagnosis with metastatic prostate cancer'*

**10.10 – 10.40, Tea/Coffee break/Poster/Exhibition**

## 10.40 – 11.50 Session, Theme 7 – Cellular dynamics

**10.40 – 11.10** Keynote 7

*Chair: Rainer Cramer*

Kathryn Lilley, University of Cambridge

*'The RNA binding proteome in time and space'*

**11.10 – 11.30**

Elisabeth Phillips, University of Otago Christchurch, New Zealand

*'Identification of adipocyte-driven regulators of breast cancer progression using iTRAQ differential secretome analysis.'*



# Annual Scientific Meeting 2018



**Day 3; 11<sup>th</sup> July 2018**

**11.30 – 11.50**

Jack Llewellyn, The University of Manchester

*'Molecular chaperone regulation in the ageing cellular stress response'*

**11.50 – 13.00, Lunch/Poster/Exhibition**

**12.45 – 13.00, Poster and young investigator awards,  
Rainer Kramer**

**13.00 – 14.30 Session, Theme 8 – Clinical and functional proteomics**

**13.00 – 13.30 Keynote 8**

**Chair: Chris Sutton**

Paul Cutler, UCB Pharma

*'Targeted Proteomics for Pharmaceutical Drug Development'*

**13.30 – 13.50**

Gina Eagle, University of Liverpool

*'Assessing Technical and Biological Variation in SWATH-MS -based Proteomic Experiments: A case study in Chronic Lymphocytic Leukaemia'*

**13.50 – 14.10**

Ravindra Chaudhary, Promise Advanced Proteomics

*'Accurate quantification of therapeutic monoclonal antibodies in the clinical laboratory using a combination of stable isotope labelled antibodies and LC-MS'*

# Annual Scientific Meeting 2018



**Day 3; 11<sup>th</sup> July 2018**

**14.10 – 14.40 Plenary 4**

**Chair: Andy Pitt**

Chuna Ram Choudhary, University of Copenhagen

*'Time-Resolved Analysis Reveals Rapid Dynamics and Broad Scope of the CBP/p300 Acetylome'*

**14.40 – 15.00, Closing remarks**

**Andy Pitt/Chris Sutton**



**One Health  
and Wellness**

9<sup>th</sup> to 11<sup>th</sup> July 2018

**University of Bradford**

