

White Rose DTP Research Symposium

Fri 13th Dec 2019, 9.30am – 5.45pm

09.30-10.00 Registration

Poster set up for third and final year students

Session 1 Chairs: Andy Stone (York) and Alice S Seleiro (Sheffield)

10.00-10.10 **Welcome Talk – Dr Betsy Pownall**

10.10-10.20 **James Ronald, York**
Illuminating the nuclear dynamics of plant circadian signalling

10.20-10.30 **Michaela Agapiou, Leeds**
Held out wings is an RNA binding protein essential for spermatogenesis in D. melanogaster

10.30-10.50 **Poster Teasers:**

Ainhoa Dafis-Sagarmendi, Sheffield
Structural characterisation of Clostridia endospore outermost layers

Alastair Pizzey, York
Novel roles for a neuronal Src kinase in development

Emily Turri, Leeds
Engineering Terpene Synthases for Mechanistic Insight and the Production of Novel Products

James Henderson, Leeds
How to IMPROvE(R) PTH1R and more

Liam Chapman, York
Scaffolding The Membrane: Protein Clustering To Enhance Sugar Metabolism

10.50-11.00 **Peter Walker, Sheffield**
Photodynamic Inactivation of Campylobacter jejuni - an innate sensitivity

11.00-11.10 **Sarah Good, Leeds**
PIPS: Working as a Journal Editor (BMC Biology)

11.10-11.30 Tea/Coffee and Poster Viewing

Session 2 Chairs: Sarah Locke (York) and Ioannis Tsagakis (Leeds)

11.30-11.40 **Lewis White, York**
The function of an ammonia transporter in a 100% ureotelic fish species, the extremophile Alcolapia alcalica

11.40-11.50 **Sarah Carroll, Sheffield**
The role of arabinan in stomatal movement

11.50-12.10 **Poster Teasers:**

Magdalena Dabrowska, Sheffield
Organ and tissue specific light signalling and gene expression in A. thaliana

Michael Davies, Leeds

Proteomic identification of alpha-synuclein interactions

Nicholas Yates, York

Glycan-facilitated protein immobilisation

Oliver Carnell, Sheffield

*The role of cell wall associated polysaccharides in coordinating *S. aureus* cell division*

12.10-12.20

Oliver Prosser, Leeds

Targeting functional RNA structures In emerging arboviruses

12.20-12.30

Jessica Ebo, Leeds

An in vivo platform to select and evolve aggregation resistant proteins

12.30-12.40

Thomas Burns, Sheffield

PIPS: Business model development for University research

12.40-13.40 Lunch and Poster viewing

Session 3

Chairs: James Forsythe (York) and Ben Stevenson (Sheffield)

13.40-13.50

Marcus Holt, Leeds

Structure and Function of ASPM (Abnormal Spindle-like Microtubule associate) protein

13.50-14.00

Oliver Herd, York

An Adapting Bone Marrow Niche Creates a Nurturing Environment for Haematopoiesis During Immune Thrombocytopenia Progression

14.00-14.20

Poster Teasers:

Patrick Shire, Sheffield

Mechanisms of endosomal permeability

Paul Bond, York

Predicting Protein Model Correctness Using Machine Learning

Philip Kirk, Leeds

Symplastic regulation and root responses to nitrate

Robert Smith, Sheffield

*Surface decoration is essential for *Enterococcus* virulence*

Tomasz Kaminiski, Leeds

Immunofluorescent imaging of living cells

14.20-14.30

Sarah Flannery, Sheffield

*Light acclimation response of the thylakoid proteome in *Arabidopsis**

14.30-14.40

Andrew Stone, York

The secretome of mesenchymal stromal cells drives functional heterogeneity

14.40-14.50

Lukas Jasaitis, Sheffield

PIPS: Algae, robots and the Great Unknown (Singer Instruments)

14.50-15.10 Break and final poster viewing

Session 4

Chairs: Lukas Jasaitis (Sheffield) and Claire Smithson (Leeds)

15.10-15.20

Kirsty Smitten, Sheffield

Novel Ruthenium Polypyridyl Antimicrobial Compounds: From Synthesis to Successful Pre-clinical Trials

- 15.20-15.30 **Manuela Iovinella, York**
*Exploring the extremophile *Galdieria sulphuraria* for Bio-recovery of Rare Earth Elements*
- 15.30-15.40 **Alexander Wright, Leeds**
Characterisation of Protein Hydrogels
- 15.40-15.50 **Matt Chadwick, Leeds**
Understanding the mechanisms that limit exercise tolerance: a multidisciplinary approach
- 15.50-16.20 **Keynote Speaker: Dr Eleanor Walton**
What is it really like working in a Biotech Company
- 16.20-16.35 **Closing remarks and prizes – Dr Alan Berry**

16.35-17.45 Drinks

17.45 Coaches Depart