

## White Rose DTP Research Symposium

**Fri 15<sup>th</sup> Dec 2017, 9.30am – 5.30pm**

**Biology Atrium & Biology T Block, University of York**

### Registration – Atrium

9.30–9.55am **Coaches arrive for Registration and Tea/Coffee**  
**Poster set-up for third and final year students**

### Session 1 – Biology T Block

10.00–10.10am **Welcome – Dr Betsy Pownall, White Rose BBSRC DTP**

10.10–10.20am **Research talk: Rachael Evans, York**  
*Evolving microbial communities for lignocellulose degradation*

10.20–10.30am **Research talk: Caitlin McQueen, York**  
*Coordinated transcriptional networks regulating myogenesis*

10.30–10.35am **Poster teaser: Jessica Dunn, Sheffield**  
*The effect of manipulating wheat stomatal development on water use efficiency*

10.35–10.40am **Poster teaser: Simon Fairbanks, Sheffield**  
*An NMR study of chiral dinuclear ruthenium complexes and their interaction with DNA motifs*

10.40–10.45am **Poster teaser: Ryan Kaye, Leeds**  
*The molecular basis of gravitropism and antigravitropism in plants*

10.45–10.50am **Poster teaser: Thomas Wilkinson, York**  
*Interactions between above and below ground symbionts - implications for food security*

10.50–11.00am **PIPS talk: Jordan Talbot, Sheffield**  
*Highlights from my PIPS*

### Break and Poster Session – Atrium

11.00–11.20am **Tea/Coffee and Poster Viewing**  
*Our third and final year students will be displaying posters of their research/PIPS during the poster sessions. Please show your support for our students by taking the time to view their posters. There is a prize for the best poster in each category, to be decided by symposium delegates.*

### Session 2 – Biology T Block

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| 11.20–11.30am | <b>Research talk: Eleanor Hanson, Sheffield</b><br><i>Changes in CHO cell epigenetics throughout cell culture</i>  |
| 11.30–11.40am | <b>Research talk: Giovanna Pesante, York</b><br><i>Physiology and enzymology of lignocellulose digestion in the shipworm <i>Lyrodus pedicellatus</i></i> |
| 11.40–11.50am | <b>Research talk: Grace Roberts, Leeds</b><br><i>Does the nsP3 macro domain play a role in chikungunya virus replication?</i>                            |
| 11.50–11.55am | <b>Poster teaser: Alastair Plant, Leeds</b><br><i>Novel mutants reveal functional diversification in TOPLESS-RELATED co-repressors</i>                   |
| 11.55–12.00pm | <b>Poster teaser: Joseph Ward, Leeds</b><br><i>The importance of the 5'UTR in FMDV replication</i>   |
| 12.00–12.05pm | <b>Poster teaser: Peter Fisher, York</b><br><i>Predicting Golgi organizational changes in mammalian cells</i>  |
| 12.05–12.10pm | <b>Poster teaser: Banushan Balansethupathy, York</b><br><i>Evaluating the RNA binding properties of the dsRBDs in TRBP</i>                               |
| 12.10–12.20pm | <b>PIPS talk: Michael King, York</b><br><i>Highlights from my PIPS</i>   |

### Lunch and Poster Session – Atrium

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| 12.20–1.20pm | <b>Lunch and Poster Viewing</b> |
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### Session 3 – Biology T Block

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| 1.20–2.00pm | <b>Keynote Speaker – Prof Jim Naismith, Director of the Research Complex at Harwell</b><br><i>Growing the White Rose DTP and RCaH Partnership: Opportunities for Collaboration</i>                                |
| 2.00–2.10pm | <b>Research talk: Cecilia Pennica, York</b><br><i>Making vital connections: Probing Protein-Protein interactions underpinning the segregation of a multidrug resistance plasmid</i>                               |
| 2.10–2.20pm | <b>Research talk: Daniel Yee, York</b><br><i>MicroRNA-155 induction via TNF-<math>\alpha</math> and IFN-<math>\gamma</math> suppresses expression of programmed death ligand-1 (PD-L1) in human primary cells</i> |
| 2.20–2.30pm | <b>Research talk: Brendan Rogers, Leeds</b><br><i>Using super-resolution imaging and affimers to understand protein organisation in the Z-disc of striated muscle</i>   |
| 2.30–2.35pm | <b>Poster teaser: Lucy Barber, Leeds</b><br><i>Mapping the conformation landscape of AB40</i>   |

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| 2.35–2.40pm | <b>Poster teaser: Matthew Parker, Sheffield</b><br><i>The role of G Quadruplexes in transcriptional regulation and splicing in Arabidopsis thaliana</i>  |
| 2.40–2.45pm | <b>Poster teaser: Matthew Dooley, Leeds</b><br><i>Improving methods for the detection and monitoring of beetle pests through the deeper understanding of the mechanisms underlying beetle odour perception</i> |
| 2.45–2.50pm | <b>Poster teaser: Nicholas Barber, Sheffield</b><br><i>Multigene engineering of secretion in mammalian cell factories</i>  |
| 2.50–2.55pm | <b>Poster teaser: Alex Coleman, Leeds</b><br><i>Probing the nuclear envelope during Kaposi's sarcoma associated herpesvirus lytic infection</i>  |

### Break – Atrium

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| 2.55–3.15pm | Tea/Coffee and final Poster Viewing |
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### Session 4 – Biology T Block

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| 3.15–3.25pm | <b>Research talk: Emma Wroblewski, Leeds</b><br><i>Rewriting nature's assembly manual for a ssRNA Virus</i>   |
| 3.25–3.35pm | <b>Research talk: Daniel Leadbeater, York</b><br><i>Bioprospecting lignocellulolytic enzymes from salt marsh ecosystems toward the use of seawater in biorefineries</i> |
| 3.35–3.45pm | <b>Research talk: Lia De Faveri, Leeds</b><br><i>Modulation of metallo-<math>\beta</math>-lactamase activity using adhirons</i>   |
| 3.45–3.55pm | <b>Research talk: Sam Dawes, Sheffield</b><br><i>Activation of the ER stress sensor IRE1</i>  |
| 3.55–4.05pm | <b>PIPS talk: Sam Bunce, Leeds</b><br><i>Highlights from my PIPS</i>  |

### Award Presentation

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| 4.05–4.20pm | <b>Closing remarks and Presentation of Awards – Rob Hardwick, BBSRC</b><br>- Prizes for best poster (third and final year)<br>- Prizes for best presentation (research, poster teaser and PIPS) |
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### Reception – Atrium

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| 4.20–5.20pm | Networking drinks reception |
| 5.20pm      | Close                       |

5.30pm prompt – Coaches Depart