

1st Biology Research Day

20th of July 2012

Iontas Lecture Theatre and foyer

9.00- 11:00

Session 1: Signalling, Protein Interactions and Drug Design

Chair: Martina Schroeder and Gemma Kinsella

Lili Gu, (Host-Pathogen Interaction Lab, MS), 15min

'The role of the human DEAD-box protein DDX3 in type I interferon induction'

***Fiachra Humphries**, (Molecular Immunology Lab, PM), 5min (+poster #1)

'Characterizing the functional role of human ECSIT in a humanised mouse model'

Bingwei Wang, (Molecular Immunology Lab, PM), 15min

'Investigating the role of Pellino3 in TNF signalling'

***Ruaidhrí Jackson**, (Molecular Immunology Lab, PM), 5min (+poster #2)

'Pellino3 targets the IRF7 pathway and facilitates autoregulation of TLR3- and viral-induced expression of type I interferons'

Gemma Kinsella, (Membrane Lab, JF), 15min

'Addressing GPCRs with drugs'

***Aisha Butt**, (Immune Signalling Lab, SM), 5min (+poster #3)

'HIV-EP1: A vital transcription factor in Toll like receptor signaling network'

***Aoife Doherty**, (Bioinformatics Unit, JMcl), 15min

'Gene duplicability in the primate protein-protein interaction network'

***Ruth Brennan**, (Host-Pathogen Interaction Lab, MS), 15min

'Investigating the nuclear export and import of the DEAD-box helicase DDX3'

11.00-11.30 Coffee break

11.30-13.00

Session 2: Microbiology, Infection Biology

Chair: Chris Harvey and Gary Jones

Christopher Harvey, (Behavioural Ecology and Biocontrol, CG), 15min

'Persistence of entomopathogenic nematodes used to control the large pine weevil (Hylobius abietis), a major forestry pest.'

***Roseanne Hennessy**, (Behavioural Ecology and Biocontrol, CG), 5min (+poster #4)

'Investigating interactions between entomopathogenic nematodes and entomopathogenic fungi on two horticultural pests (Otiorhynchus sulcatus and Delia radicum) and one silvicultural pest (Hylobius abietis).'

***Niall Browne**, (Medical Mycology, KK), 15min

'Analysis of the Cellular and humoral immune responses of Galleria mellonella to thermal and physical stresses'

***Stephen Hammel**, (Yeast Genetics, GJ), 15min

'The redox-active fungal metabolite, gliotoxin, induces transcriptional remodelling in Saccharomyces cerevisiae'

***Eoin Mulvihill**, (Nematode Genetics, AB), 15min

'The identification of genes involved in anhydrobiosis and cryobiosis in the nematode Panagrolaimus superbus using RNA Seq technology.'

***Cassandra Collins**, (Biotechnology Lab, SD), 5min (+poster #5)

'Armillaria mellea a plant pathogen under stress'

13h- 14h Lunch and Posters

14.00-15.30

Session 3: Genetics , Bioinformatics and Evolutionary Biology

Chair: David Alvarez Ponce and David Fitzpatrick

David Alvarez Ponce, (Bioinformatics Unit, JMcl), 15min

'Gene similarity networks provide new tools for understanding Eukaryote origins and evolution'

***Leanne Haggerty**, (Bioinformatics Unit, JMcl), 15min

'Homology Network Properties Reveal Fusions of Unrelated Gene in Salmonella enterica'

***Wasiu Akanni**, (Genetics and Bioinformatics Lab, DP), 15min

'Developing a Maximum likelihood and Bayesian Supertree method'

***Xiaodong Dang**, (Molecular Ecology, CM), 15min

'Haplotype detection with High Resolution Melting analysis in phylogeographic research: a case study with two Carnation species'

***Sinead Hamilton**, (Bioinformatics Unit, JMcl), 15min

'Ocean Drive: availability of new ocean ecosystems drove opsin evolution'

15.30- 17.00 Poster viewing and coffee

17.00- 18.30

Session 4: Immunology and Biomedical Science

Chair: Marion Butler and Karen English

Darren Martin, (Membrane Biology Lab, JF), 15min

'Novel therapeutics against type 2 diabetes'

***Frederick McMahon**, (Medical Mycology, KK), 15min

'The role of bacterial antigens in the induction and persistence of rosacea'

Natasha McCormack, (Epithelial Lab, SOD), 5min (+poster #6)

'The role of Bone Morphogenetic Protein Signalling and Epithelial to Mesenchymal Transition in Airway Epithelial Regeneration'

Ashwini Maratha, (Immune Signalling Lab, SM), 5min (+poster #7)

'TLR3 as a therapeutic target for OA?'

Karen English, (Cellular Immunology, BM), 15min

'Immunomodulation by the vessel associated stem cells: mesoangioblasts'

Mark Mellett, (Molecular Immunology Lab, PM), 15min

'Interleukin-17 Receptor D regulates Interleukin-17A-mediated signalling pathways and neutrophilia'

Prize giving

*: presentations by postgraduate students

15 min presentations (+3 min questions)

5 min presentations (+1 min questions). Please limit these to a maximum of 4 slides.

Posters (+ 5min talk)

1. Fiachra Humphries, (Molecular Immunology Lab, PM)*
2. Ruaidhrí Jackson, (Molecular Immunology Lab, PM)*
3. Aisha Butt, (Immune Signalling Lab, SM)*
4. Roseanne Hennessy, (Behavioural Ecology and Biocontrol, CG)*
5. Cassandra Collins, (Biotechnology Lab, SD)*
6. Natasha McCormack, (Epithelial Lab, SOD)
7. Ashwini Maratha, (Immune Signalling Lab, SM)

Posters

8. Kate McQuaid (Membrane Lab, JF)*
9. Marc Healy (Cellular Immunology, BM)*
10. Pamela Young (Membrane Lab, JF)*
11. Ronan Bergin (Molecular Immunology, PM)*
12. Siobhan Leonard (Membrane Lab, JF)*
13. Siobhan Gargan (Molecular Immunology, PM)
14. Yvette Hoehn (Host-Pathogen Lab, MS)
15. Zita McCrea (Epithelial Lab, SoD)*
16. Enda Shevlin (Immune Signalling Lab, SM)*
17. Helen Kennelly (Cellular Immunology, BM)*
18. Ashling Holland (Muscle Biology, KO)*
19. Alan Horgan (Molecular Immunology, PM)*
20. Shuo Yang (Molecular Immunology, PM)
21. Niamh O'Reilly (Medical Mycology, KK)
22. Ahmed Eshwika (Medical Mycology, KK)*
23. Alanna Smith (Medical Mycology, KK)*
24. Grainne O'Keefe (Biotechnology, SD)
25. Matthew O'Brien (Medical Mycology, KK)*
26. Rebecca Owens (Biotechnology, SD)*
27. Karen Siu Ting (Bioinformatics and Molecular Evolution, DP)*
28. Robert Carton (Evolutionary Biology, DP)*
40. Stephen Carberry (Muscle Biology, KO)

Additional Abstracts (absent on the day)

29. Anthony Fullam (Host-Pathogen Lab, MS)*
30. Daniela Bruni (Cell Signalling, MB)*
31. Emer Cahill (Cellular Immunology, BM)*
32. Lisa Tang (Molecular Immunology, PM)
33. Lara Manzanares Miralles (Biotechnology, SD)*
34. Johan van Vlaenderen (Behavioural Ecology and Biocontrol, CG)*
35. Adam Guy (Behavioural Ecology and Biocontrol, CG)*
36. Anthony Doran (Bioinformatics and Molecular Evolution, JMcl)*
37. Roberto Feuda (Bioinformatics and Molecular Evolution, DP)*
38. Tiina Kajaste (Plant Cell Biology, PD)*
39. Emma Howard-Williams (Molecular Ecology, CM)*