12th Annual Medical School Research Meeting
16th – 17th June 2016
PROGRAMME

Thursday 16th June 2016

Venue: Octagon Centre

09:00 – 09:30  Poster presenters to hang posters and “lay” presenters to provide slides – Refreshments provided

Venue: Student Union Auditorium

09:00 – 09:30  “An introduction to MDH research”
Dr Lynne Bingle – For students and teachers from invited schools / colleges – aim to promote the Faculty research and show the diversity of what the Faculty has to offer

09:30 – 10:30  Plenary Lecture - “What it takes to be a scientist in 2016”
Dr Louise Robson (Senior Lecturer, Biomedical Science)
Dr Robson has research interests in the role of ion channels in the physiology and pathophysiology of epithelial cells, particularly renal, intestinal and airway cells. She is actively involved in outreach and access work in local schools, and is a regular panel member on a science question and answer session on BBC Radio Sheffield. In 2011 she was shortlisted for the UKRC Women of Outstanding Achievement for Communicating Science, Engineering and Technology to Society.

10:30 – 11:30  Research today…we care
Six short 5 minute / 5 slide lay presentations on current research within the medical school
Judged by the audience on (example criteria):
1. Understanding/Clarity
2. Delivery
3. Understanding and dealing with questions
4. Relevance
5. Style/Entertainment

10:30 – 10:40  Ms Charlotte Rowan
PhD Student – 3rd Year
Understanding the Immune System: Your Personal Army in the Battle against Cancer!

10:40 – 10:50  Mr Christopher Hillary
PhD Student – 4th Year
Developing solutions for women with stress incontinence

10:50 – 11:00  Mr Jack Green
PhD Student – 3rd Year
Understanding how blood flow sensors in the artery wall affect fatty plaque accumulation in heart disease

11:00 – 11:10  Ms Natalie Rounding
PhD Student – 4th Year
Fishing for a cure: Can zebrafish help us understand motor neurone disease?

11:10 – 11:20  Mr Gregg Rawlings
PhD Student – 2nd Year
The power of writing in illness – an open invitation to write

11:20 – 11:30  Mr Lewis Quayle
PhD Student – 2nd Year
Finding New Ways of Stopping Breast Cancer from Spreading to the Skeleton
11:30 – 12:00  “Importance of social media in science today – the do’s and don’ts”
Andy Tattersall – Enhancing your research presence – Social media, media training and infographics

Venue: Octagon Centre

12:00 – 13:00  Lunch
During lunch delegates can visit posters, industry stands and internal stands including:
• Think Ahead
• Science Brainwaves
• Biological Services
• Public Engagement and Impact Team
• Weston Park Hospital Charity
• Sheffield Hospitals Charity
• Children’s Hospital Charity
• Yorkshire Cancer Research
• Plus others.....

13:00 – 14:00  “Extending your reach”
Outreach – the importance, why do it and how can you do it. What do you as an outreach participant get out of it and what do the recipients of outreach activities get from it?

13:00 – 13:20  Schools / Teachers’ perspective
Mr Nick Harris (Tapton Secondary School)

13:20 – 13:40  Patients / Clinicians’ perspective
Mr Daniel Lawrence and patients

13:40 – 14:00  Charities perspective
Ellie Hill (Yorkshire Cancer Research)

Venue: Octagon Centre

14:00 – 16:00  Hot Research Topics - Poster Technique Tours
Organised by Medicine, Dentistry and Health Research Staff Association (MDHRSA)
• Proteomics
• Genomics
• Microbiology/Virology
• Qualitative
• Clinical
• Imaging
• Biomaterials / Tissue engineering
• Other

16:00 – 17:00  Wine reception and Poster Bay Tours
Friday 17th June 2016

Venue: Student Union Auditorium

08:45 Registration for Oral and Poster Presenters

09:00 Welcome and introduction
Professor Dame Pamela Shaw – Pro-Vice Chancellor, Medicine, Dentistry & Health

Session 1: Chaired by Professor Arshad Majid – Department of Neuroscience
Co-chaired by Miss Clair Fellows, MDHRSA

09:10 Invited speaker
Dr Christopher McDermott – Department of Neuroscience

09:30 Mr Jack Green [Infection, Immunity and Cardiovascular Disease]
PhD Student – 3rd Year
Atheroprone Flow alters ATP-induced Calcium Signaling in the Endothelium

09:40 Miss Georgia Stewart [Oncology and Metabolism]
Sheffield Hallam Placement Student
Oncolytic Virus HSV1716 therapy in Myeloma

09:50 Miss Jodie Stephenson [Neuroscience]
PhD Student – 3rd Year
Characterisation of TDP-43 Mouse Models of Motor Neurone Disease (MND)

10:00 Ms Sofia Granados Aparici [Oncology and Metabolism]
PhD Student – 3rd Year
TGF β signaling and cell cycle control during early ovarian follicle development

10:10 Miss Zhen Jiang [Infection, Immunity and Cardiovascular Disease]
PhD Student – 2nd Year
foxc1a and foxc1b exhibit distinct compensatory requirements during brain and trunk angiogenesis in zebrafish and foxc1a is required for haematopoietic stem cell formation

10:20 Miss Barbora Novakova [Neuroscience]
PhD Student – 4th Year
Stress and Seizures: Development and piloting of a self-help stress management intervention for patients with seizures

10:30 – 11:00 COFFEE / TEA BREAK (OCTAGON CENTRE)

Session 2: Chaired by Professor Tim Skerry – Head of Department of Oncology and Metabolism
Co-chaired by Miss Isobel Williams, MPGS

11:00 Invited speaker
Professor Allan Pacey – Department of Oncology and Metabolism

11:20 Dr David King [Oncology and Metabolism]
PhD Student – 2nd Year
Targeting the DNA damage response as a novel therapeutic strategy in neuroblastoma

11:30 Miss Siri Gowda [Neuroscience]
BMedSci Student – 1st Year
GCH1 deficiency and Parkinson’s disease – a zebrafish model
11:40  **Miss Lucy Morris** [Infection, Immunity and Cardiovascular Disease]
      PhD Student – 3rd Year
      The effect of macrophage polarisation and delayed apoptosis in the innate immune response to S. pneumoniae infection

11:50  **Mrs Diane Lefley** [Oncology and Metabolism]
      Research Assistant
      Blocking IL-1R signalling inhibits breast cancer growth and bone metastases by altering the tumour microenvironment

Keynote Speaker Introduction - **Professor Ian Sabroe**

12:00  **KEYNOTE LECTURE:** “Helicobacter pylori and stomach cancer: what makes some bugs bad?”
      **Professor John Atherton**, Faculty Pro-Vice-Chancellor of Medicine & Health Sciences, University of Nottingham

13:00 – 15:00  **LUNCH, POSTER VIEWING & NETWORKING – OCTAGON CENTRE**
      • 13:00-15:00 trade / internal stands
      • 13:20-14:50 2nd Year postgraduate poster presentation assessment
      • 13:20-14:05 viewing of odd numbered posters
      • 14:05-14:50 viewing of even numbered posters

Session 3:  Chaired by **Professor Jon Sayers** – Department of Infection, Immunity & Cardiovascular Disease
            Co-chaired by Dr Martin Eduardo Santocildes Romero, MDHRS

15:00  Invited speaker
      **Professor David Dockrell** – Department of Infection, Immunity & Cardiovascular Disease

15:20  **Mr Ho-Fung Chan** [Infection, Immunity & Cardiovascular Disease]
      PhD Student – 2nd Year
      Whole Lung Morphometry with 3D Multiple b-value Hyperpolarised Gas MRI and Compressed Sensing

15:30  **Dr Tariq Aabed** [Oncology and Metabolism]
      PhD Student – 3rd Year
      Radiation effects on the differentiation of mesenchymal stromal cells into myofibroblasts and pericytes and development of fibrosis in soft tissue sarcoma

15:40  **Mrs Amira Zawia** [Infection, Immunity & Cardiovascular Disease]
      PhD Student – 3rd Year
      Reduction of CD68+ cells causes spontaneous pulmonary arterial hypertension in mice

15:50  **Miss Katrina Williams** [Oncology and Metabolism]
      PhD Student – 4th Year
      Sperm washing is mostly effective at removing human Cytomegalovirus from semen samples infected in vivo and in vitro

16:00  **Dr Steven Reynolds** [Infection, Immunity & Cardiovascular Disease]
      Research Fellow
      Measuring Glycolysis versus Oxidative Phosphorylation in Human Sperm by 13C MR Spectroscopy

16:10  **Dr Emily Goodall** [Neuroscience]
      Post Doctoral Research Associate
      Role of microRNAs in ageing at the blood brain barrier: integrated studies in humans and mice

16:20  Closing remarks by **Professor Dame Pamela Shaw**

16:30  Presentation of Prizes for Oral Presentations & Posters
      **Professor John Atherton & Professor Sheila MacNeil**