



THE LEARNED SOCIETY OF WALES
CYMDEITHAS DDYSGEDIG CYMRU

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DATHLU YSGOLHEICTOD A GWASANAETHU'R GENEDL



Ariennir gan
Lywodraeth Cymru
Funded by
Welsh Government

Symposium on
New Challenges in the Biomedical Sciences
Parc Thistle Hotel Cardiff, Park Place, Cardiff CF10 3UD, Wales, UK
25th and 26th March 2015

Registration (no cost) at: <https://eventbrite.co.uk/event/15499884572/>

WEDNESDAY 25 March, 0830 – 1800

0830-0900 Registration and coffee

Programme

Session I Pathophysiology: Mitochondria, Calcium and Inflammation

- 0900** Opening remarks: **Ole Petersen** (Cardiff University)
- 0910** Keynote Lecture: **Tullio Pozzan** (University of Padua)
The privileged signalling crosstalk between the endoplasmic reticulum and the mitochondria
- 0945** Discussion
- 0955** **Anant Parekh** (University of Oxford)
Distinct sub-cellular Ca²⁺ signals activate different transcription factor isoforms
- 1020** Discussion

1025 **Julia/Oleg Gerasimenko** (Cardiff University)
Physiological and pathological Ca²⁺ signals in exocrine pancreatic cells: pathophysiology of pancreatitis

1050 Discussion

1055 Coffee

1115 **David Criddle** (University of Liverpool)
Mitochondrial dysfunction in acute pancreatitis: strategies for prevention

1140 Discussion

1145 **Daniela Riccardi** (Cardiff University)
Development of a novel therapeutic for inflammatory lung disorders

1210 Discussion

1215 **Panel Discussion**

1300 **Lunch**

Session II Translating Basic Immunology Research into Clinical Impact

1355 Introductory remarks: **Paul Morgan** (Cardiff University)

1405 Keynote Lecture: **Adrian Hill** (University of Oxford)
Ebola vaccines: a rapid response

1440 Discussion

1445 **Paul Lehner** (University of Cambridge)
Proteomic and genetic approaches to viral evasion

1510 Discussion

1515 **Tracy Hussell** (University of Manchester)
New concepts in the treatment of bacterial pneumonia: modulation of inflammatory tone

1540 Discussion

1545 Tea

1600 **Simon Jones** (Cardiff University)
Evaluating cytokine control of different forms of synovitis in rheumatoid arthritis

1625 Discussion

- 1630 **Bernard Moser** (Cardiff University)
Correlates of skin-specific vaccination
- 1655 Discussion
- 1700 **Andrew Sewell** (Cardiff University)
A systems view of T-cell immunity offers multiple opportunities for therapeutic intervention during infection, autoimmunity and cancer
- 1725 Discussion
- 1730 **Panel Discussion**
- 1800 Conclusion

THURSDAY 26 March, 0900 - 1800

Session III Neurogenetics

- 0900** Opening remarks: **Michael Owen** (Cardiff University)
- 0910 Keynote Lecture: **John Hardy** (University College London)
Genomic analysis of Neurodegeneration
- 0950 Discussion
- 1000 **Julie Williams** (Cardiff University)
Translating genetic findings in Alzheimer Disease
- 1025 Discussion
- 1030 **Thomas Bourgeron** (Institut Pasteur, Paris)
From Genetic architecture to synaptic plasticity in autism
- 1055 Discussion
- 1100 Coffee
- 1120 **Jeremy Hall** (Cardiff University)
Translating genetic findings in psychiatry
- 1145 Discussion
- 1150 **Panel Discussion**
- 1250** **Lunch**

Session IV Cerebral Cortex: Development, Function and Dysfunction

- 1350 Introductory remarks: **Yves Barde** (Cardiff University)
- 1400 Keynote Lecture: **Haruo Kasai** (University of Tokyo)
Dendritic spine dynamics underlying animal behaviours
- 1435 Discussion
- 1445 **Carl Petersen** (EPFL Lausanne)
Neural circuits for goal-directed sensorimotor processing
- 1510 Discussion
- 1515 **Isabel Martinez-Garay** (Cardiff University)
Critical steps in cortical lamination
- 1540 Discussion
- 1545 Tea
- 1600 **Kevin Fox** (Cardiff University)
An early critical period for adult cortical plasticity
- 1625 Discussion
- 1630 **Vincenzo Crunelli** (Cardiff University)
Thalamo-cortical mechanisms of sleep and epilepsy
- 1655 Discussion
- 1700 **Panel Discussion**
- 1800 Conclusion