



2017 BNS Summer School

Royal Agricultural University

**Molecular pathology across
neurological disorders**

**Cirencester, UK
5th-7th July, 2017**

The BNS Summer School was founded in the early 1960s by Professor Payling Wright who felt that neuropathologists and neuroscientists were not getting together enough to discuss the science of their subjects. Several research bodies were persuaded to sponsor the School and the first was held at Wye College in 1965. The BNS Summer School is one of the best-remembered scientific events in the neuroscience calendar, allowing a very informal mix of workers from basic, veterinary and clinical neuroscience. An excellent scientific content with internationally renowned speakers is matched by a fantastic venue, a restful environment, and a beautiful garden combining to facilitate small-group discussions.

The Royal Agricultural University (former College) in Cirencester was the first agricultural college in the English speaking world. In 1842, the seeds of the College were sown at a meeting of the Fairford and Cirencester Farmers Club. Concerned by the lack of government support for education, Robert Jeffreys-Brown addressed the meeting on the 'Advantages of a Specific Education for Agricultural Pursuits'. A prospectus was circulated, a general committee appointed and Earl Bathurst was elected President. Funds were raised by public subscription with much of the support coming from the wealthy landowners and farmers of the day; there was no Government support. For more information about the College, see <http://rau.ac.uk/>



Course organiser: Professor Silvia Marino (s.marino@qmul.ac.uk)

BNS programme secretary: Dr Rina Bandopadhyay rina.bandopadhyay@ucl.ac.uk

Chair of BNS academic committee: Professor Silvia Marino s.marino@qmul.ac.uk

Programme

WEDNESDAY 5th July

State of the art techniques and methodology in molecular neuropathology

2.00- 3.00 PM REGISTRATION

OPENING OF SUMMER SCHOOL: 3.00-3.20 Dr Rina Bandopadhyay and Professor Silvia Marino

3.20-4.00 Ann Wheeler

Institute of Genetics and Molecular Medicine, University of Edinburgh, UK

Advanced imaging: Super-resolution microscopy and light sheet microscopy

4.00-4.45 Matthew Ellis

UCL Institute of Neurology, London, UK

Digital Pathology: Image analysis – At a Glance

4.45-5.15 TEA BREAK

5.15-6.00 Gabriel Rosser

Queen Mary University of London, London, UK

Next generation sequencing: Data generation and computational analysis

6.00-6.45 JP Martinez-Barbera

UCL Institute of Child Health, London, UK

Highs and lows of genome editing using CRISPR/Cas9

19.30 BARBEQUE

THURSDAY 6th July

8.00-9.30 BREAKFAST

Neuro-oncology

9.30-10.15 Silvia Marino

Queen Mary University of London, London, UK

Deregulated epigenetic mechanisms in gliomas

10.15-11.00 Sebastian Brandner

UCL Institute of Neurology, London, UK

Molecular stratification of gliomas

TEA BREAK

11.30-12.15 Sotirios Bisdas

National Hospital for Neurology and Neurosurgery, London, UK

Radiomics in gliomas

12.15-1.00 Anthony Chalmers

University of Glasgow and Beatson Institute, Glasgow, UK

Clinical trials in the genomic era

1.00-2.30 LUNCH

Developmental disorders

2.30-3.15 Nadia Bahi-Buisson

INSERM, Paris, France

Brain cortical malformations: from foetal imaging and neuropathology to cellular mechanisms

3.15-4.00 Richard Scott

Great Ormond Street Hospital, London, UK

Rare disease diagnostics in the era of whole genome sequencing

4.00-4.30 **TEA BREAK**

4.30-5.15 Yanick Crow

University of Manchester, Manchester, UK

Human type I interferonopathies

5.15-6.00: Thomas Jacques

UCL Institute of Child Health, London, UK

Molecular pathology in paediatric surgical neuropathology

Friday 7th July

Neurodegeneration

8.00-9.30: BREAKFAST

9.30-10.15 Tamas Revesz, Chris Lane

UCL Institute of Neurology and UCL Dementia Research Centre, London, UK

Clinical and pathological features of neurodegenerative diseases

10.15-11.00 Zeshan Ahmed

Eli Lilly and Company, Surrey, UK

Pathological hallmarks of Tauopathies

11.00-11.30 **TEA BREAK**

11.30-12.15 Janice Holton

UCL Institute of Neurology, London, UK

Pathological hallmarks of alpha-synucleinopathies

12.15-1.00 Tammarnyn Lashley

UCL Institute of Neurology, London, UK

The FTLN and ALS disease spectrum

1.00-1.30: Evaluation forms and closure

1.30-2.30 **LUNCH AND DEPARTURE**