117th Meeting of the British Neuropathological Society
Royal College of Physicians

WEDNESDAY, 1st MARCH 2017

SMALL VESSEL DISEASE
Chair: Professor Colin Smith, University of Edinburgh, UK.

13:15 Registration

14:00 Welcome and introduction – Colin Smith

14:15 Epidemiology and clinical aspects of small vessel disease
Professor David Werring, UCL Institute of Neurology

14:45: Animal models of small vessel disease
Dr Atticus Hainsworth, St George’s University of London

15:15: Molecular mechanisms of CAA
Professor Roxana Carare, University of Southampton

15.45: Tea break

16:15: Post-mortem biochemical assessment in relation to vascular contributions to dementia
Dr Scott Miners, University of Bristol

16:45: Notch 3 mutations and vascular disease
Professor Anne Joutel, INSERM, France

17:15: Short break

17:30: Alfred Meyer Memorial Lecture
The neuropathology of vascular dementia and vascular cognitive impairment
Professor Harry Vinters, Chief of Neuropathology UCLA Medical Centre.

18:30: RECEPTION
THURSDAY 2\textsuperscript{nd} MARCH 2017

08:00 - Registration

08:50 - Opening of meeting – Professor Paul Ince, BNS President

09:00 - 10:30  FIRST SCIENTIFIC SESSION – Lewy body disorders and movement disorders

Chair: Professor J. Attems and Professor S.M. Gentleman

9:00  \textit{C. Manzoni}, R. Ferrari, J. Hardy, R.C. Lovering, R. Bandopadhyay, P.A. Lewis
Protein network analysis of FTD and PD: pathways and candidate genes for sporadic disease  O01

Cognitive decline and hippocampal CA2 pathology in Lewy body disorders  O02

Differential expression of galanin in the cholinergic basal forebrain in Lewy body disorders and Alzheimer’s disease  O03

Central and systemic inflammation in Dementia with Lewy Bodies and Alzheimer’s diseases  O04

The role of visual thalamic circuitry in hallucinations in dementia with Lewy bodies  O05

Hierarchical pathological progression of corticobasal degeneration  O06

10:30 – 11:00  Coffee break

11:00 - 12:30  SECOND SCIENTIFIC SESSION – Neuropathology of ageing and dementia

Chair: Professor J. Nicoll and Professor S. Al-Sarraj

11:00  \textit{A.B. Ganz}, M. de Reus, A.B. Smit, P. Scheltens, A. Rozemuller, J.J.M. Hoozemans, H. Holstege
Neuropathological assessment of cognitively healthy centenarians – The 100-Plus Study  O07

White matter lesions in Alzheimer’s disease are associated with cortical
neurodegenerative pathology but not with small vessel disease

Unfolded protein response activation in C9orf72 FTD cases

Investigating the role of macroautophagy in Frontotemporal Lobar Degeneration

12:00 L. Walker, K.E. McAleese, M. Johnson, D. Erskine, A.J. Thomas, J. Attems
Quantitative neuropathology and tissue microarray - variations in pathology load and implications for large-scale cohorts

TREM2 expression: a marker of monocyte recruitment in the human brain?

12:30 - Lunch

13:00 –14.00 POSTER DISCUSSION

14:00 The Cavanagh Prize Lecture
Chair: Professor Paul Ince
Deciphering clinical phenotypes: the power of neuropathology
G.C DeLuca

14.45-16.00 THIRD SCIENTIFIC SESSION - Tumors of the central nervous system
Chair: Professor S. Brandner and Dr F. Roncaroli

14:45 D. W. Ellison, G.W. Robinson, J. Wen, J.D. Dalton, R.G. Tatevossian, D.T.W Jones
How do medulloblastomas with melanotic and/or myogenic differentiation align with the new genetically defined WHO classification?

15:00 T. Mindos, P. Edwards, A.G. Shivane, D.B. Parkinson
Prognostic and therapeutic biomarkers in a series of 33 pediatric chordomas

Expression profiling of Adamantinomatous Craniopharyngioma reveals a complex tissue environment resembling the developing tooth

Multinodular and vacuolating neuronal tumours in epilepsy: dysplasia or neoplasia?

Distinct pathological features of pituitary adenomas in patients with X-linked acrogigantism (XLAG)
16:00  Coffee break

16:15  BUSINESS MEETING

17:00 – 18:00  PROFESSIONAL AFFAIRS MEETING

19:30  SOCIETY DINNER AT THE VINTNER’S HALL

FRIDAY 3rd MARCH 2017

9:00 – 10:30  FOURTH SCIENTIFIC SESSION – Epilepsy and Vascular disease

Chairs:  Professor M. Thom and Professor R. Carare

9:00  J. Liu, C. Reeves, A. McEvoy, A. Miserocchi, S. Sisodiya, M. Thom
Nestin expressing cells in temporal lobe epilepsy: proliferation and differentiation  O18

The medulla in SUDEP: a post-mortem stereological and 9.4T MRI study  O19

The Neuropathological Substrate of Vascular Parkinsonism (VaP)  O20

9:45  M. K. Barker, L. R. Bridges, M. M. Esiri, A.H. Hainsworth
A vasculo-centric pattern of axonal damage and neurofilament phosphorylation in subcortical white matter of older people  O21

10.00  Y. Hase, E. Hawthorne, C. Platten, W. Stevenson, L. Craggs, J. Y. Slade, A.E. Oakley, R. N. Kalaria
Cerebrovascular Pathology in Subjects with Autonomic Dysfunction plus Dementia  O22

10:15  R. Ding, Y. Hase, J. Y. Slade, A. E. Oakley and R. N. Kalaria
Capillary Pericytes of the White Matter Disease associated with Dementia  O23

10:30 – 11:00  Coffee break

11:00 – 12:00  FIFTH SCIENTIFIC SESSION – Experimental neuropathology

Chairs:  Professor K. Smith and Dr D. Boche

Antisense long non-coding RNA represses MAPT translation through an embedded MIR repeat  O24

11:15  R.A. Desai, M. Clark, K.J. Smith
Spinal vascular permeability, pericyte disruption and microhaemorrhages following acute, moderate hypoxia in vivo  O25
Transection of targeted axonal pathways inhibits network spread of tau pathology in a P301S model of tau propagation

O26

11:45  **M. E. Gegg, J. Magalhaes, A. Sanchez-Martinez, A. Whitworth, A.H.V. Schapira**
Impaired autophagy and ER stress in GBA models: relevance for Parkinson disease

O27

12.00 - **DIAGNOSTIC SLIDE SESSION (INCORPORATING EQA)**

13:00 - Lunch

13:30 - **POSTER DISCUSSION**

14:30 – 16:15 **SIXTH SCIENTIFIC SESSION – Miscellaneous**

**Chairs: Professor P. Ince and Professor C. Smith**

Pathologically confirmed variant CJD in a prion protein gene codon 129 heterozygous patient

O28

Iatrogenic Creutzfeldt-Jakob disease in the UK: investigating human prion transmission across genotypic barriers using human tissue-based and molecular approaches

O29

15.00  **R. Phadke, R.S. Scalco, A. Oldfors, E. Murphy,**
A rare monogenic polyglucosan storage disorder causing multisystem autoinflammation, recurrent infections, cardiac and skeletal myopathies in female siblings

O30

Exploration of human brain anatomy in three-dimensions using the next generation histological pipeline

O31

The influence of **HLA-DRB1*15** on motor cortical neurodegeneration in multiple sclerosis

O32

15:45  **R. Ferrari, J. Vandrovcova, S. Guelfi, the International FTD-Genomics Consortium (IFGC), J. Hardy, R. S. Desikan**
Genetic architecture of sporadic frontotemporal dementia and overlap with Alzheimer’s and Parkinson’s diseases

O33

16.00  **D.M. Dias, Y. Uraiby, R Laxton, C. Troakes, A. King, S. Al-Sarraj**
Cerebrum weight loss provides a reliable quantitative method to measure brain atrophy in post-mortem examination of neurodegenerative diseases

O34

16.15 Announcement of the poster prize winners and closure of the meeting