



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

WEDNESDAY, 1st MARCH 2017

**SMALL VESSELL 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 2nd 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 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
- 9:15 T.W. Chau, A.K. L. Liu, E. J. Lim, I. Ahmed, R.K.B. Pearce, S.M. Gentleman
Cognitive decline and hippocampal CA2 pathology in Lewy body disorders O02
- 9:30 A. Alexandris, L. Walker, A. K.L. Liu, R.K.B. Pearce, S.M. Gentleman, J. Attems
Differential expression of galanin in the cholinergic basal forebrain in Lewy body disorders and Alzheimer’s disease O03
- 9:45 J. Amin, T. Williams, J. Teeling, R. Dorey, D. Williams, E. Tommasino, D. Boche, C. Holmes
Central and systemic inflammation in Dementia with Lewy Bodies and Alzheimer’s diseases O04
- 10:00 D. Erskine, J. Attems, A. Thomas, C. Morris, A. Khundakar.
The role of visual thalamic circuitry in hallucinations in dementia with Lewy bodies O05
- 10:15 H. Ling, E. Gelpi, J. Hedreen, S. Al-Sarraj, D. Mann, G.G. Kovacs, J. Attems, G. Halliday, J. Xuereb, J-P. Vonsattel, E. Kovari, S. Love, J. Ironside, K. Davey, J.L. Holton, T. Revesz
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 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
- 11:15 K. E. McAleese, L. Walker, S. Graham, ELJ. Moya, M. Johnson, D. Erskine, J.P. Taylor, C. DeCarli, J. Attems.
White matter lesions in Alzheimer’s disease are associated with cortical

- neurodegenerative pathology but not with small vessel disease** O08
- 11:30 *J.J.M. Hoozemans*, I. van Dijken, L.H. Meeter, S. Melhem, J.C. van Swieten, J.M. Rozemuller
Unfolded protein response activation in C9orf72 FTD cases O09
- 11:45 *R. Heale*, R.L. Henck, D.M. Stan, G.L. Lace-Costigan
Investigating the role of macroautophagy in Frontotemporal Lobar Degeneration O10
- 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 O11
- 12:15 *D. Boche*, M. Fahrenhold, S. Rakic, J. Classey, C. Brayne, P.G Ince, J.A.R. Nicoll, and MRC CFAS
TREM2 expression: a marker of monocyte recruitment in the human brain? O12
- 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? O13
- 15:00 *T. Mindos*, P. Edwards, A.G. Shivane, D.B. Parkinson
Prognostic and therapeutic biomarkers in a series of 33 pediatric chordomas O14
- 15:15 *J. R. Apps*, N. Jani, H. C. Fraser, M. Gonzalez-Meljem, G. Carreno, D. Hargrave, C.L. Andoniadou, TS Jacques, H Williams, J.P Martinez-Barbera
Expression profiling of Adamantinomatous Craniopharyngioma reveals a complex tissue environment resembling the developing tooth O15
- 15:30 *M. Thom*, J. Liu, A. Prabowo, B. Paradiso, R. Jager, C. Reeves, A. Somani, M. Honovar, T. S. Jacques, E. Aronica
Multinodular and vacuolating neuronal tumours in epilepsy : dysplasia or neoplasia? O16
- 15.45 *F. Roncaroli*, D. Iacovazzo, C. Rodd, A. Gurlek, P. Dutta, S. Ellard, J. Sampson, J. Trouillas, M.B. Lopes, M. Korbonits
Distinct pathological features of pituitary adenomas in patients with X-linked acro gigantism (XLAG) O17

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
- 9:15 S. Patodia, M.O'Hare, A. Somani, R. Venkateswaran, M. Ellis, M. Tachrount, X. Golay, T. Yousry, S. Sisodiya, M. Thom
The medulla in SUDEP: a post-mortem stereological and 9.4T MRI study O19
9. 30 A. K. Hari Narayanan, D. Mosses, A. Papaemmanouil, H. Mayers, A. Gerhard, S.M. Allan, E. Pinteaux, F. Roncaroli
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

- 11:00 R. Simone, F. Javad, W. Emmett, M. Ehteramyan, P. Zuccotti, A. Modelska, K. Siva, G. Hondhamuni, D. Trabzuni, M. Ryten, S. Wray, E. Preza, D. Kia, A. Pittman, A. Lees, J. Hardy, M. A. Denti A. Quattrone, T. T. Warner, V. Plagnol, J. Ule, R. de Silva
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

- 11:30 *A. Fisher*, Z. Ahmed, J. Cooper, K. Jackson, T. K. Murray, A. Cavallini, S. Bose, M. Goedert, M.L. Hutton, M. J. O'Neill
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**
- 14:30 *Z. Jaunmuktane*, T. H. Mok, S. Mead, F. Launchbury, A. Richard-Loendt, R. Jager, P. Rudge, J. Wadsworth, J. Collinge, S Brandner
Pathologically confirmed variant CJD in a prion protein gene codon 129 heterozygous patient O28
- 14.45 *A.H. Peden*, D.L. Ritchie, M.A. Barria, H.M. Yull, J. Kirkpatrick, J.W. Ironside, M.W. Head
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
- 15.15 *A. K. L. Liu*, H. M. Lai, M. H. Goldfinger, H. H. M. Ng, W. Wu, S. M. Gentleman
Exploration of human brain anatomy in three-dimensions using the next generation histological pipeline O31
- 15:30 *R.L. Yates*, M. M. Esiri, J. Palace, P. Orłowski, Q. Li, R Perera, G. C. DeLuca
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**