

Subscribing organizations are encouraged to copy and distribute this table of contents for non-commercial purposes

Biochemical Society Focused Meetings

Bionanotechnology III: from Biomolecular Assembly to Applications

Robinson College, Cambridge, U.K., 4–6 January 2012

Edited by Tony Cass (Imperial College London, U.K.), Duncan Graham (Strathclyde, U.K.), Andrew Turberfield (Oxford, U.K.) and Dek Woolfson (Bristol, U.K.).

- Nanoparticle assembly for sensitive DNA detection using SERRS
Kristy S. McKeating, Jennifer A. Dougan and Karen Faulds 597–602
- Nanomechanics of superbugs and superdrugs: new frontiers in nanomedicine
Rachel A. McKendry 603–608
- Advances in TERS (tip-enhanced Raman scattering) for biochemical applications
Regina Treffer, René Böhme, Tanja Deckert-Gaudig, Katherine Lau, Stephan Tiede, Xiumei Lin and Volker Deckert 609–614
- Building droplet-based microfluidic systems for biological analysis
Xize Niu and Andrew J. deMello 615–623
- Solid-state nanopores for biosensing with submolecular resolution
Azadeh Bahrami, Fatma Doğan, Deanpen Japrunng and Tim Albrecht 624–628
- Selected oral communications**
- Functional self-assembling polypeptide bionanomaterials
Tibor Doles, Sabina Božič, Helena Gradišar and Roman Jerala 629–634
- Quantum dot-nucleic acid/aptamer bioconjugate-based fluorimetric biosensors
Dejian Zhou 635–639



The Biology and Pathology of Tau and its Role in Tauopathies II

Robinson College, Cambridge, U.K., 8–9 January 2012

Edited by Amritpal Mudher (Southampton, U.K.) and Makis Skoulakis (BSRC Alexander Fleming, Greece).

- Twice is better: highlights of the second meeting focused on tau biology and pathology
Efthimios M.C. Skoulakis and Amritpal Mudher 641–643
- Degradation of tau protein by autophagy and proteasomal pathways
Yipeng Wang and Eckhard Mandelkow 644–652
- Looking for novel functions of tau
Jesus Avila, Elena Gomez de Barreda, Almudena Fuster-Matanzo, Diana Simón, María Llorens-Martín, Tobias Engel, Jose J. Lucas, Miguel Díaz-Hernández and Félix Hernández 653–655

Potential neuroprotective strategies against tauopathy Jeanna M. Wheeler, Chris R. Guthrie and Brian C. Kraemer	656–660
Brain-penetrant microtubule-stabilizing compounds as potential therapeutic agents for tauopathies Kurt R. Brunden, Carlo Ballatore, Virginia M.-Y. Lee, Amos B. Smith, III and John Q. Trojanowski	661–666
Tau oligomers and tau toxicity in neurodegenerative disease Sarah M. Ward, Diana S. Himmelstein, Jody K. Lancia and Lester I. Binder	667–671
Copy number variations involving the microtubule-associated protein tau in human diseases Anne Rovelet-Lecrux and Dominique Campion	672–676
Tau alternative splicing in familial and sporadic tauopathies Michael Niblock and Jean-Marc Gallo	677–680
The self-perpetuating tau truncation circle Norbert Zilka, Branislav Kovacech, Peter Barath, Eva Kontsekova and Michal Novák	681–686
The role of <i>MAPT</i> sequence variation in mechanisms of disease susceptibility Tara M. Caffrey and Richard Wade-Martins	687–692
Selected oral communications	
What is the pathological significance of tau oligomers? Catherine M. Cowan, Shmma Quraishe and Amritpal Mudher	693–697
Towards understanding the phosphorylation code of tau Guy Lippens, Laziza Amniai, Jean-Michel Wieruszkeski, Alain Sillen, Arnaud Leroy and Isabelle Landrieu	698–703
Luminescent conjugated poly- and oligo-thiophenes: optical ligands for spectral assignment of a plethora of protein aggregates Therése Klingstedt and K. Peter R. Nilsson	704–710
The relationship between subcortical tau pathology and Alzheimer's disease Johannes Attems, Dietmar R. Thal and Kurt A. Jellinger	711–715

Irish Area Section Meeting

Protein Folding and Misfolding: Mechanisms and Consequences

Glenroyal Hotel/National University of Ireland Maynooth, Ireland, 1–2 December 2012

Edited by Gary Jones (National University of Ireland Maynooth, Ireland).

Pharmacological chaperones increase the cell-surface expression of intracellularly retained mutants of the melanocortin 4 receptor with unique rescuing efficacy profiles Natalie-Anne Ward, Simon Hirst, John Williams and John B.C. Findlay	717–720
Insulin and IGF-1 signalling: longevity, protein homeostasis and Alzheimer's disease Cora O'Neill, Aoife P. Kiely, Meghan F. Coakley, Sean Manning and Caitriona M. Long-Smith	721–727

Exploiting amyloid: how and why bacteria use cross- β fibrils Elizabeth B. Sawyer, Dennis Claessen, Sally L. Gras and Sarah Perrett	728–734
Prion processing: a double-edged sword? Hilary E.M. McMahon	735–738
Choosing and using <i>Drosophila</i> models to characterize modifiers of Huntington's disease Edward W. Green and Flaviano Giorgini	739–745
Alternatively folded proteins with unexpected beneficial functions Soyoung Min, James Meehan, Louise M. Sullivan, Nial P. Harte, Yongjing Xie, Gavin P. Davey, Catharina Svanborg, André Brodkorb and K. Hun Mok	746–751
Oestrogen-dependent regulation of miRNA biogenesis: many ways to skin the cat Ananya Gupta, Emer Caffrey, Grace Callagy and Sanjeev Gupta	752–758

Independent Meeting

RNA UK 2012

The Burnside Hotel, Bowness-on-Windermere, Cumbria, U.K., 20–22 January 2012

Edited by **Raymond O'Keefe and Mark Ashe (Manchester, U.K.)**

Intronic microRNAs: a crossroad in gene regulation Natalia Gromak	759–761
Pleiotropy of microRNA-192 in the kidney Robert H. Jenkins, John Martin, Aled O. Phillips, Timothy Bowen and Donald J. Fraser	762–767
<i>BRCA1</i> exon 11 alternative splicing, multiple functions and the association with cancer Claudia Tamaro, Michela Raponi, David I. Wilson and Diana Baralle	768–772
Human papillomavirus gene expression is controlled by host cell splicing factors Tetyana Klymenko and Sheila V. Graham	773–777
UPF1 involvement in nuclear functions Wazeer Varsally and Saverio Brogna	778–783
How does Tra2 β protein regulate tissue-specific RNA splicing? David J. Elliott, Andrew Best, Caroline Dalgliesh, Ingrid Ehrmann and Sushma Grellscheid	784–788
Terminal loop-mediated control of microRNA biogenesis Nila Roy Choudhury and Gracjan Michlewski	789–793
Adaptation to stress in yeast: to translate or not? Clare E. Simpson and Mark P. Ashe	794–799
MicroRNA expression profiling of human islets from individuals with and without Type 2 diabetes: promises and pitfalls Jonathan M. Locke and Lorna W. Harries	800–803

Mechanisms of <i>Drosophila Dscam</i> mutually exclusive splicing regulation Yash Hemani and Matthias Soller	804–809
Cytoplasmic mRNA 3' tagging in eukaryotes: does it spell the end? Igor Y. Morozov and Mark X. Caddick	810–814
Defining the roles and interactions of PTB Panagiota Kafasla, Ian Mickleburgh, Miriam Llorian, Miguel Coelho, Clare Gooding, Dmitry Cherny, Amar Joshi, Olga Kotik-Kogan, Stephen Curry, Ian C. Eperon, Richard J. Jackson and Christopher W.J. Smith	815–820
The role of microRNA in the response to cisplatin treatment Ross M. Drayton	821–825
SAFB1- and SAFB2-mediated transcriptional repression: relevance to cancer Elaine A. Hong, Hannah L. Gautrey, David J. Elliott and Alison J. Tyson-Capper	826–830
SRPK1 inhibition <i>in vivo</i> : modulation of VEGF splicing and potential treatment for multiple diseases Sebastian Oltean, Melissa Gammons, Richard Hulse, Maryam Hamdollah-Zadeh, Athina Mavrou, Lucy Donaldson, Andrew H. Salmon, Steve J. Harper, Michael R. Ladomery and David O. Bates	831–835
Form and function of eukaryotic unstable non-coding RNAs Jonathan Houseley	836–841
BLF1, the first <i>Burkholderia pseudomallei</i> toxin, connects inhibition of host protein synthesis with melioidosis Guillaume M. Hautbergue and Stuart A. Wilson	842–845
The increasing functional repertoire of U1 snRNA Steven West	846–849
Comparison of the yeast and human nuclear exosome complexes Katherine E. Sloan, Claudia Schneider and Nicholas J. Watkins	850–855
The role of mammalian poly(A)-binding proteins in co-ordinating mRNA turnover Matthew Brook and Nicola K. Gray	856–864
The mystery of mitochondrial RNases Francesco Bruni, Pasqua Gramegna, Robert N. Lightowlers and Zofia M.A. Chrzanowska-Lightowlers	865–869
Role of splice variants in the metastatic progression of prostate cancer Rachel M. Hagen and Michael R. Ladomery	870–874
Analysis of urinary microRNAs in chronic kidney disease Cristina Beltrami, Aled Clayton, Aled O. Phillips, Donald J. Fraser and Timothy Bowen	875–879
The control of histone gene expression Alexander M.J. Rattray and Berndt Müller	880–885
Extracellular small RNAs: what, where, why? Anna M. Hoy and Amy H. Buck	886–890
The roles of miRNAs in wing imaginal disc development in <i>Drosophila</i> Joseph A. Waldron and Sarah F. Newbury	891–895

Deadenylation of cytoplasmic mRNA by the mammalian Ccr4-Not complex Rachel Doidge, Saloni Mittal, Akhmed Aslam and G. Sebastiaan Winkler	896-901
Long non-coding RNAs and human disease Lorna W. Harries	902-906
Non-coding RNAs in <i>Saccharomyces cerevisiae</i> : what is the function? Jian Wu, Daniela Delneri and Raymond T. O'Keefe	907-911