UK Neuromuscular Translational Research Conference 2012  
*Scotswood Suite, International Centre for Life, Times Square, Newcastle upon Tyne, NE1 4EP*  
Thursday 22nd – Friday 23rd March

**Day 1 – Thursday 22nd March**

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<th>Time</th>
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<td>09:00 – 10.15</td>
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| 10:15 – 10:30 | Introduction  
Professor Mike Hanna, UCL Institute of Neurology                       |
| 10:30 – 12:30 | **Molecular Mechanisms in Neuromuscular Disease**  
Chair: Professor Doug Turnbull                                          |
| 10:30 – 11:00 | Molecular mechanisms and molecular pathophysiology in Duchenne muscular dystrophy  
Professor Dominic Wells  
Professor in Translational Medicine, Royal Veterinary College          |
| 11:00 – 11:30 | Molecular mechanisms of myofibrillar myopathies  
Professor Dr Dieter Fürst  
Institute for Cell Biology, University of Bonn                          |
| 11:30 – 12:00 | Coffee break                                                            |
| 12:00 – 12:30 | Molecular mechanisms of mitochondrial encephalomyopathies  
Dr Massimo Zeviani  
Director, Unit of Molecular Neurogenetics, Fondazione Istituto Neurologico "Carlo Besta", Milan |
| 12:30 – 12:45 | Platform presentation  
Identification of new chemical compounds which upregulate utrophin for the therapy of Duchenne muscular dystrophy  
Dr Rebecca Fairclough  
University of Oxford                                                    |
| 12:45 – 13:00 | Platform presentation  
Dysregulated mitophagy and mitochondrial transport in severe dominant optic atrophy due to OPA1 mutations  
Professor Joanna Poulton  
John Radcliffe Hospital, Oxford                                          |
| 13:00 – 14:30 | Posters and Lunch, mezzanine                                             |
| 14:30 – 16:30 | **Translational Pathways**  
Chair: Professor Mary Reilly                                              |
| 14:30 – 15:00 | Title TBC  
Katherine Klinger                                                      |
15:00 – 15:30  Translating discovery into experimental medicine and treatment - the amyloid experience
Professor Philip Hawkins
Clinical Director, National Amyloidosis Centre,
UCL/Royal Free Hospital NHS Foundation Trust

15:30 – 15:45  Platform presentation
High-Dose riboflavin therapy in Brown-Vialetto-Van Laere syndrome: clinical and biochemical improvement
Dr Reghan Foley
UCL Institute of Child Health

15:45 – 16:00  Platform presentation
Efficacy of mexiletine in non-dystrophic myotonia: results of an international multi-centred randomised controlled trial
Dr Dipa Raja Rayan
UCL Institute of Neurology

16:00 – 16:30  TBC

16:30 – 17:00  The MRC's Translational Research Strategy
Declan Mulkeen
Director, Research Programmes, Medical Research Council

17:00 - 17:30  Posters & tea, mezzanine

17:30 – 18:30  The Second John Walton Lecture
Introduced by Professors Kate Bushby & Doug Turnbull
‘Overcoming weakness of the flesh’
Professor Robert C. Griggs, M.D
Professor of Neurology, Medicine, Pathology, Pediatrics Center for Human Experimental Therapeutics at the University of Rochester School of Medicine and Dentistry, USA

18:30 – 19:30  Drinks reception & posters introduced by Robert Meadowcroft, MDC CEO

20:00 - 22:45  Gala dinner, Scotswood Suite

Day 2 – Friday 23rd March

09:00 – 10:30  Next generation sequencing
Chair: Professors Francesco Muntoni

09:00 – 09:30  Advancing from targeted resequencing to whole exome sequencing: a perspective on neuromuscular disorders
Professor Madhuri Hegde
Associate Professor/Emory Genetics Lab Scientific Director,
Emory University School of Medicine, USA

09:30 – 10:00  Next generation sequencing in neuromuscular disorders
Professor Henry Houlden
Professor of Neurology, Department of Molecular Neuroscience,
UCL Institute of Neurology
10:00 – 10:15 Platform presentation
Exome sequencing in three families with cytoplasmic body myopathy with early respiratory failure
Dr Gerald Pfeffer
Newcastle University

10:15 – 10:30 Platform presentation
TBC

10:30- 12:45 Poster guided tours
Mitochondrial disease: Rob Taylor & Mike Hanna
Peripheral neuropathies: Rita Horvath & Mary Reilly
Neuromuscular MRI: Tarek Yousry & Andrew Blamire
Neuromuscular animal models: Volker Straub & Sue Brown
Molecular therapies for DMD: Kate Bushby & Nic Wells
Congenital myopathies & IBM: David Hilton-Jones & Chris Turner
Channelopathies & myasthenia gravis: David Beeson & Hanns Lochmüller
Muscle satellite cells: Kay Davies & Jenny Morgan
Neuromuscular databases: Adnan Manzur

12:45 – 13:45 Lunch, mezzanine

13:45 – 15:45 Stem cells
Chair: Professor Dame Kay Davies

13:45 – 14:15 Epicardium-derived cardiac repair
Professor Paul Riley
The Oxford Stem Cell Institute, DPAG, University of Oxford

14:15 – 14:45 Stem cells in multiple sclerosis and motor neuron disease
Dr Siddharthan Chandran
Director of The Euan MacDonald Centre for MND Research & Professor of Neurology, University of Edinburgh

14:45 – 15:15 A phase I/II cell therapy trial for Duchenne Muscular Dystrophy
Dr Giulio Cossu
UCL Institute of Child Health

15:15 – 15:30 Platform presentation
The satellite cell in male and female, developing and adult mice: evidence for functionally distinct stem cell populations
Alice Neal
UCL Institute of Neurology

15:30 – 15:45 Platform presentation
Bmi1 controls satellite cells proliferation and maintenance and plays an important role in muscle regeneration
Valentina Di Foggia
QMUL, Barts and the London School of Medicine and Dentistry

15:45 – 16:00 Poster prizes and close