

# Fourth MaRMN Annual Symposium Programme

Thursday 6<sup>th</sup> February 2020 (12:00 – 17:00)

Michael Smith Lecture Theatre and Lounge



10:00 to 12:00	<b>Open for Poster Set-up in Michael Smith Lounge</b> All poster boards will be available from 10:00 for displaying posters	
12:00	<b>Registration with Lunch and Refreshments on arrival, plus                  an early opportunity to view posters prior to opening remarks from MaRMN Board Chairs</b>	
13:00	<ul style="list-style-type: none"> <li>• Welcome &amp; Introductions</li> <li>• Programme for the afternoon ahead</li> </ul>	<b>Professor Sue Kimber &amp; Professor Adrian Woolf, Co-Chairs, MaRMN</b> Email: <a href="mailto:sue.kimber@manchester.ac.uk">sue.kimber@manchester.ac.uk</a> Email: <a href="mailto:adrian.woolf@manchester.ac.uk">adrian.woolf@manchester.ac.uk</a>
13:10	<i>In Vitro Models or Avant Garde Molecular Cuisine</i>	<b>Dr Annalisa Tirelli, Lecturer at UoM</b> Email: <a href="mailto:annalisa.tirella@manchester.ac.uk">annalisa.tirella@manchester.ac.uk</a>
13:30	<i>Bioengineering Tissues for the Limb</i>	<b>Dr Jason Wong, Senior Lecturer, UoM</b> Email: <a href="mailto:Jason.K.Wong@manchester.ac.uk">Jason.K.Wong@manchester.ac.uk</a>
13:50	<i>iPSC Model of Genetic Small Vessel Diseases</i>	<b>Professor Tao Wang, Professor of Molecular Medicine</b> Email: <a href="mailto:Tao.Wang@manchester.ac.uk">Tao.Wang@manchester.ac.uk</a>
14:10	<i>Advanced Materials in Medicine</i>	<b>Julie Gough, Professor of Biomaterials &amp; Tissue Engineering</b> Email: <a href="mailto:J.Gough@manchester.ac.uk">J.Gough@manchester.ac.uk</a>
14:25	<i>Modelling Diseases of Cartilage Using Pluripotent Stem Cells</i>	<b>Dr Steven Woods, Research Associate, UoM</b> Email: <a href="mailto:steven.woods-3@manchester.ac.uk">steven.woods-3@manchester.ac.uk</a>
14:45	<i>Viral-vector Mediated Gene Therapy for a Genetic Autonomic Nerve Disease</i>	<b>Dr Neil Roberts, Research Fellow, UoM</b> Email: <a href="mailto:neil.roberts-2@manchester.ac.uk">neil.roberts-2@manchester.ac.uk</a>

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15:05	<p style="text-align: center;"><b>BREAK</b></p> <p style="text-align: center;">Refreshments and a further opportunity to view posters</p>	
16:00	<p><b><i>Myelin Regeneration - Reversing the Ravages of Time</i></b></p> <p>Remyelination, the process by which new myelin sheaths are restored to demyelinated axons, represents one of the most compelling examples of adult multipotent stem cells contributing to regeneration of the injured CNS. This process can occur with remarkable efficiency in multiple sclerosis (MS), and in experimental models, revealing an impressive ability of the adult CNS to repair itself. However, the inconsistency of remyelination in MS, and the loss of axonal integrity that results from its failure, makes enhancement of remyelination an important therapeutic objective. There is now compelling evidence, that ageing is the major contributor to the declining efficiency of remyelination and that this is largely due to a failure of stem cell differentiation. This talk will cover some of our recent studies on how ageing effects many aspects of CNS remyelination, including how changes in the mechanical properties of the ageing brain change the properties of CNS stem cells.</p>	<p><b>Robin Franklin, FMedSci, Professor of Stem Cell Medicine, Wellcome-Medical Research Council, Cambridge Stem Cell Institute</b></p> <p>Robin Franklin is Professor of Stem Cell Medicine at the Wellcome Trust-MRC Cambridge Stem Cell Institute. His lab works on the mechanisms of CNS regeneration with a particular focus on remyelination, an adult stem/ precursor cell-mediated process in which new myelin sheaths are restored to demyelinated axons. Using a wide range of in vitro and in vivo models, we are examining extrinsic (environmental) and intrinsic (Transcriptional, epigenetic) factors that govern the differentiation of adult neural stem cells in to oligodendrocytes and other glia following CNS injury. Robin Franklin is also Director of the MS society Cambridge Centre for Myelin Repair, and a Fellow of the Academy of Medical Sciences.</p> <p><b>Research:</b> <a href="https://www.stemcells.cam.ac.uk/researchers/principal-investigators/pressor-robin-franklin">https://www.stemcells.cam.ac.uk/researchers/principal-investigators/pressor-robin-franklin</a></p>
17:00	<p style="text-align: center;"><b>CLOSE</b></p>	