

Programme

BSMB
BRITISH SOCIETY
FOR MATRIX BIOLOGY

**British Society for
Matrix Biology**

29 – 30 March 2010

Hulme Hall, University of Manchester, UK
Vascular Matrix in Health & Disease

Local organiser: Ann Canfield
www.bsmb.ac.uk

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Monday 29th March

- 11 – 12.50pm Registration & Lunch
- 12.50 – 1pm **Introductory Remarks**
Ann Canfield (University of Manchester, UK)
- 1 – 2.30pm Session 1 – Matrix Proteins & Vascular Development**
Chairs: Clair Baldock & Stuart Cain
- 1 – 1.30pm *Charlie Little (University of Kansas, USA)*
'Computational analysis of cellular and ECM motion during early vascular morphogenesis'
- 1.30 – 1.45pm *Lynda Harris (University of Manchester, UK)*
'Matrix metalloproteinase-12 mediates elastolysis in remodelling human uterine spiral arteries'
- 1.45 – 2pm *Athanasios Didangelos (King's College, UK)*
'Proteomic characterization of extracellular space components in the human aorta'
- 2 – 2.30pm *Bob Mecham (Washington University in St Louis, USA)*
'Vascular extracellular matrix and vessel wall development'
- 2.30 – 4 pm Poster Session (including tea and cakes)**
Trade Stands
- 4 – 4.15pm BHF – Fellowships & Funding Opportunities**
Jeremy Pearson (Associate Medical Director, BHF)
- 4.15 – 5pm Session 2 – Stem Cells & Vascular Regeneration**
Chairs: Martin Humphries & Colette Inkson
- 4.15 – 4.45pm *Cay Kielty (University of Manchester, UK)*
'Mesenchymal stem cells in vascular remodelling: pivotal importance of platelet-derived growth factor receptor signalling'
- 4.45 – 5pm *Lin Cooley (University of East Anglia, UK)*
'Reversible trans-differentiation of blood vascular endothelial cells to a lymphatic-like phenotype in vitro'
- 5 – 5.30pm BSMB Fell Muir Award**
Sponsored by the International Journal of Experimental Pathology
Gill Murphy (University of Cambridge, UK)
'Metalloproteinases - from demolition squad to master regulators'

5.30 – 6pm	AGM
5.30 – 7.30pm	Poster Session (including wine and nibbles) Trade Stands
8pm – Late	Reception, Conference Dinner & Ceilidh (Whitworth Art Gallery)

Tuesday 30th March

8.45 – 10.15am	Session 3 – Angiogenesis Chairs: Gill Murphy & Jennifer Bara
8.45 – 9.15am	<i>Bjorn Olsen (Harvard, USA)</i> 'Molecular mechanisms of infantile hemangioma'
9.15 – 9.30am	<i>Andrew Hamilton (University of Manchester)</i> 'A critical requirement for heparan sulphate activation of Vascular Endothelial Growth Factor to mediate angiogenesis'
9.30 – 9.45am	<i>Magali Le Goff (University of Manchester)</i> 'The glycoprotein opticin inhibits collagen-induced angiogenesis'
9.45 – 10.15am	<i>Holger Gerhardt (London Research Institute, CRUK, UK)</i> 'Social cell behaviour in the angiogenic sprout'
10.15 – 10.45am	Coffee and biscuits Trade Stands & Posters
10.45 – 1pm	Session 4 – BSMB Open Session Chairs: Ray Boot-Handford & Emma Blain
10.45 – 11.15am	<i>Charles Streuli (University of Manchester, UK)</i> 'How integrins control breast development and function'
11.15 - 11.30am	<i>Andrew Leask (University of Western Ontario, Canada)</i> 'Integrin β 1 expression by fibroblasts is required for tissue repair in vivo'
11.30 – 11.45am	<i>Jennifer Potts (University of York, UK)</i> 'What do bacterial proteins tell us about the structure of human fibronectin?'
11.45 – 12pm	<i>Clair Baldock (University of Manchester, UK)</i> 'The 3D structure of collagen VI microfibrils and the role of metal-ions in their conformation and assembly'

12 – 12.15pm	<i>Birgit Leitinger (Imperial, UK)</i> 'Trafficking defects and loss of ligand binding are the underlying causes of all reported DDR2 missense mutations found in Spondylo-meta-epiphyseal dysplasia with short limbs and abnormal calcifications [SMED-SL] patients'
12.15 - 12.30pm	<i>Mark Morgan (University of Manchester)</i> 'Syndecan-4 phosphorylation: a molecular switch regulating integrin trafficking and focal adhesion dynamics'
12.30 – 1pm	<i>Mark Ginsberg (University of California, San Diego, USA)</i> 'The nexus of extracellular matrix and signal transduction'
1pm – 2pm	Lunch Trade Stands & Posters
2 – 4pm	Session 5 – Vascular Matrix in Pathology Chairs: Ann Canfield & Gareth Hyde
2 – 2.30pm	<i>Sarah George (University of Bristol, UK)</i> 'Matrix degrading metalloproteinases influence vascular smooth muscle cell behaviour and atherosclerosis'
2.30 – 2.45pm	<i>Markella Ponticos (UCL, UK)</i> 'The role of Nkx2-5 in atherosclerosis'
2.45 – 3.15pm	<i>Elena Aikawa (Harvard, USA)</i> 'Pathologic matrix calcification: Insights from molecular imaging'
3.15 – 3.30pm	<i>Tom Van Agtmael (University of Glasgow, UK)</i> 'Col4a1 mutation in mice leads to defects in vascular function and blood pressure regulation associated with reduced blood volume, and UPR activation'
3.30 – 4pm	<i>Checco Ramirez (Mount Sinai School of Medicine, New York, USA)</i> 'Elastic fibers in aorta development, compliance and disease'
4 – 4.10pm	Prizes
4.10 – 4.30pm	Tea & biscuits

CLOSE OF MEETING