

Multi-dimensional Matrix Programme



Tuesday, Sept 5th

I: Matrix Gene Regulation [Chair: Dr David Young] 1320 – 1510h

- 1320 – 1330 **Welcome**
- 1330 – 1405 **Matt Vincenti:** IL-1 activation of matrix metalloproteinase-1 transcription in chondrocytes
- 1405 – 1420 **Andrew Leask:** The contribution of Connective tissue growth factor (CTGF, CCN2) to fibroblast biology
- 1420 – 1435 **Simon Tew:** Interleukin 1 β activation of p38 MAPK in human osteoarthritic articular chondrocytes increases SOX9 expression and is dependent on cytoskeletal organisation
- 1435 – 1510 **Derek Mann:** The role of NF κ B in the progression and regression of fibrosis
- 1510 – 1545 **Coffee & Posters**

II: Matrix Development & Disease [Chair: Prof Carl Richards] 1545 – 1725

- 1545 – 1620 **Steve Goldring:** The role of cell-matrix interactions in osteoclast differentiation: you are what you eat
- 1620 – 1635 **Kate Silverthorne:** C-1-1 as a potential therapeutic gene to promote cartilage repair
- 1635 – 1650 **Rose Davidson:** Expression profiling of metalloproteinases and their inhibitors in synovium and cartilage
- 1650 – 1725 **Mary Goldring:** Novel mediators of matrix remodeling during cartilage development and osteoarthritis

Wine & Posters 1730 – 1830h

- 1730 – 1800 Poster Session I (even numbers)
- 1800 – 1830 Poster Session II (odd numbers)
- 1930 Conference dinner (St James' Park)

All talks will be in the David Shaw Lecture Theatre

Please remember to switch off your mobile phones!

Wednesday, Sept 6th

III: Matrix Proteomics [Chair: Prof Tim Cawston] 0900 – 1025h

- 0900 – 0935 **Dick Heinegaard:** Diverse posttranslational modifications of extracellular matrix proteins regulate functional properties
- 0935 – 0950 **David Robinson:** Developing a new way of investigating glycosaminoglycan:protein interactions: The “ Sugar chip”
- 0950 – 1025 **Chris Overall:** CLIP-TAILS and CLIP-STEP: New degradomic techniques for the discovery of natural substrates and proteases in complex cell proteomes.
- 1025 - 1110 **Coffee & Posters**

IV: The Matrix and Inflammation [Chair: Prof Ian Clark] 1110 – 1255h

- 1110 – 1145 **Gerry Graham:** Decoy receptor modulation of the in vivo inflammatory response
- 1145 – 1220 **Chris Buckley:** Immunity and inflammation: a marriage of convenience
- 1220 – 1255 **Carl Richards:** The role of oncostatin M in tissue remodelling

Lunch & Posters 1300 – 1415h

V: Models in Matrix Biology [Chair: Prof Chris Overall] 1415 - 1600

- 1415 – 1450 **Amanda Fosang:** The role of ADAMTS-5 in aggrecanolysis
- 1450 – 1505 **Alan Murdoch:** Improved chondrogenesis of human bone marrow mesenchymal stem cells in transwell cultures
- 1505 – 1520 **Katarzyna Pirog-Garcia:** Genetic background influences the severity of growth plate dysplasia in a mouse model of pseudoachondroplasia
- 1520 – 1555 **David Eyre:** Cartilage collagen: a highly evolved heteropolymer
- 1600 **Closing remarks**

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