



Cardiff BSMB 2008 – Meeting Programme

Monday September 8th

- 11 – 12.50pm: Registration
12.50 – 1pm: Introductory Remarks (Drs E Blain & C Hughes)
- 1 – 2pm: Session 1 - Cartilage Metabolism**
Chairs: Vic Duance & Liz Canty-Laird
- 1 – 1.30pm: David Eyre - 'Cartilage Collagen'**
- 1.30 – 1.45pm: **Gareth Hyde** (Manchester) – Col2a1 lineage tracing reveals that the meniscus of the knee joint develops from a combination of cells with different origins.
- 1.45 – 2pm: **Chris Murphy** (Kennedy Institute) – The role of Hypoxia-inducible H19-derived miR-675 in promoting chondrocyte function.
- 2 – 4pm: Poster Session (including Tea & cakes)
Trade Stands**
- 4 – 5.30pm: Session 2 - Hyaluronan Metabolism**
Chairs: Martin Humphries & Wael Kafienah
- 4 – 4.30pm: Vince Hascall – “How does hyaluronan modulate inflammations?”**
- 4.30 – 4.45pm: **Jason Webber** (Cardiff) – Maintenance of the myofibroblastic phenotype: a role for Hyaluronan.
- 4.45 – 5pm: **Helen Fielder** (Oxford) – Analysis of high molecular weight complexes formed between polymeric hyaluronan and the G1 domain from human versican by MALLS.
- 5 – 5.30pm: Bryan Toole – “Hyaluronan: From extracellular glue to cell signaling cue”**
- 5.30 – 6pm: Fell-Muir Award:
Dick Heinegard - "From aggrecan to matrix"**
- 6 – 7pm: Cheese & Wine Session (Poster viewing)**
- 7.30pm:** Buses leave Talybont Halls of Residence for the Millennium Stadium
- 8pm onwards: Conference Dinner (Millennium Stadium)**



Tuesday September 9th

9 – 10.45am:

Session 3 – Matrix Degradation

Chairs: Tim Cawston & Sophie Gilbert

9 – 9.30am:

Mandy Fosang – “Aggrecanases and collagenases in cartilage degradation” (provisional)

9.30 – 9.45am:

Yoshi Itoh (Kennedy Institute) – MT1-MMP in human rheumatoid arthritis.

9.45 – 10am:

Liz Canty-Laird (Manchester) – Identification of BMP1/Tolloid metalloproteinases in the developing ovarian follicle.

10 – 10.25am:

Gill Murphy – “Controlling extracellular proteolysis: the ECM and more”

10.25 – 10.45am:

Hideake Nagase – “ADAMTS and Arthritis” (provisional)

10.45 – 11.15am:

Coffee Break

11.15 – 1pm:

Session 4: BSMB Open Session

Chairs: John Couchman & Chris Murphy

11.15 -11.30am:

Jim Melrose (University of Sydney) – Correlation of *in vivo* fragmentation of fibromodulin with that generated *in vitro* by MMP-13 and ADAMTS-4 but not ADAMTS-5.

11.30 – 11.45am:

Ko Hashimoto (Southampton) – Inflammatory cytokines have the capacity to de-methylate specific CpG sites in the promoter of IL-1 β , which underlies induction of abnormal expression in healthy human articular chondrocytes *in vitro*.

11.45 – 12pm:

Brendan Thoms (Kennedy) – Promotion of the chondrocyte phenotype by the inhibition of HIF-specific proyl-hydroxylase domain (PHD) enzymes.

12 – 12.15pm:

Carole Bougault (Lyon) - Molecular responses of chondrocytes cultured in agarose to dynamic compression

12.15 – 12.30pm:

Chris Watson (Manchester) – Identification of a mutation in the *UFM1-specific peptidase 2* gene, *UFSP2*, that segregates with the Beukes Hip Dysplasia phenotype.

12.30 – 12.45pm:

Christina Kamma-Lorger (Cardiff) – Novel methods to increase the strength of LASIK flaps in the cornea.

12.45 – 1pm:

John Whitelock (University of New South Wales) – The role of heparan sulphate on chondrocyte perlecan – to proliferate or not?

1 – 2pm:

Lunch

2 – 3.45pm:

Session 5: Tissue Engineering

Chairs: Charlie Archer & Simon Tew

2 – 2.30pm:

Brian Johnstone – “Adult human stem cells and skeletal tissue regeneration”

2.30 – 2.45pm:

Claire Clarkin (Royal Vet College) – Phenotypic plasticity of superficial zone chondrocytes is revealed by increased glycosaminoglycan release and a unique angiogenic secretory profile from neo-cartilage grafts.

2.45 – 3pm:

Stephen Richardson (Manchester) – Improved mesenchymal stem cells differentiation to nucleus pulposus-like cells in chitosan-glycerophosphate hydrogels for regeneration of the human intervertebral disc.

3 – 3.15pm:

Debbie Mason (Cardiff) – Interactions between osteocytes and osteoblasts in a novel 3D co-culture system.

3.15 – 3.45pm

Frank Barry – “Cellular Therapies in Arthritic Diseases”

3.45pm – 4pm:

**Poster Prize Awards
Close of Meeting (Afternoon Tea)**