

## BSMB Spring Meeting York University 7-8<sup>th</sup> April 2008



When, why and how did my cartilage go?

### Insights into Osteoarthritis

#### Scientific Programme

Monday 7<sup>th</sup> April 2008:

Registration 11am-12.50pm Langwith College, York University

12.50 pm Welcome

Monday 7<sup>th</sup> April 2008:

#### Session 1 - When?

Chair persons: Bruce Caterson/ Darren Plumb

Time	Presenter	Title
1.00pm - 1.30pm	Virginia Kraus	Biomarkers and biomarker patterns: new and emerging trends to distinguish osteoarthritis disease subsets and progression.
1.30pm - 1.40pm	Alan Boyde	X-ray microtomography and scanning electron microscopy in study of loss of articular calcified cartilage and subchondral bone in human femoral head.
1.40pm - 1.50pm	Natasha Baker	Investigating WISP-3 in Osteoarthritis & Chondrocyte Biology
1.50pm - 2.00pm	Elizabeth Barr	Markers of Osteoarthritis Altered in the Subchondral Bone are also Altered in the Cartilage of Horses with Palmar Osteochondral Disease.
2.00pm - 2.30pm	Stefan Lohmander	When I'm sixty-four... : Young patients with old knees - exploring early-stage OA with human models and biomarkers.

Tea/coffee break

#### Session 2 - Why?

Chair persons: Anthony Hollander/Emma Blain

Time	Presenter	Title
3.00pm - 3.30pm	Donald Salter	Cartilage and Chondrocyte Mechanotransduction in Osteoarthritis
3.30pm - 3.40pm	Blandine Poulet	In vivo knee joint loading of Str/ort mice: distinguishing between load-induced and naturally occurring lesions.
3.40pm - 3.50pm	Ruth Webster	Osteoporosis alters the underlying subchondral bone integrity in an experimental model of osteoarthritis in rats.
3.500pm - 4.00pm	Elaine Garvican	Chondrocytes harvested from equine Osteochondritis dissecans cartilage are able to undergo limited <i>in-vitro</i> chondrogenesis despite having perturbations of cell phenotype <i>in-vivo</i>

4.00pm - 4.30pm	John Loughlin	The role of genetic susceptibility in osteoarthritis development.
4.30pm - 5.00pm	Alan Silman (ARC Director)	

5.00pm - 5.30pm BSMB Young Investigator Award

5.30pm - 6.00pm BSMB Annual General Meeting

5.30pm Wine and Poster Reception- Posters to be attended from 5.30-6.30pm

Transport to York Race course 7.00pm

[Conference Dinner - York Racecourse 8pm](#)

**Tuesday 8th April 2008:**

**Session 3 - How?**

Chair persons: Tim Cawston/Drew Rowan/David Young

Time	Presenter	Title
9.00am - 9.30am	Jerry Saklatvala	
9.30am - 9.40am	Ngee Han Lim	Characterisation of N-TIMP-3 mutants that selectively inhibit the ADAMTSs
9.40am - 9.50am	Athanasios Didangelos	Apolipoprotein A-1 is a novel inducer of aggrecan breakdown in cultured articular cartilage.
9.50 - 10.00	Tonia Vincent	A chondroprotective role for matrix-bound FGF2
10.00am - 10.30am	Hideaki Nagase	Aggrecanases and TIMP-3 in Osteoarthritis: Structure, function and in vivo challenges.

Tea/coffee break

**Session 4 - BSMB Society Session**

Chair persons: John Couchman

Time	Presenter	Title
11.00 - 11.30am	Karl Kadler	Matrix biology of tendon development: from stem cells to tenocytes and organised collagen fibrils.
11.30 - 11.40	John Scott	Extracellular matrices (ECMs) are held together by elastic glycan strings. Molecular details of their collagen fibril anchorages.
11.40 - 11.50	Andrew	A prototype "sugar chip" for the investigation of

	Marson	glycosaminoglycan-protein interactions.
11.50 - 12.00	Julie Huxley-Jones	Drug discovery in the extracellular matrix.
12.00pm - 12.30pm	Ernst Hunziker	Engineering of Articular Cartilage: Alchemy of the 21st Century?

Lunch 12.30pm - 1.30pm

### Session 5 - In vitro and In vivo models of Osteoarthritis

Chair persons: Ian Clark

Time	Presenter	Title
1.30pm - 2.00pm	Jim Williams	Experimental Models of Osteoarthritis
2.00pm - 2.10pm	Gareth Edwards	Enhanced nuclear localisation of Sox9 in chick wing bud mesenchymal cell aggregates levitated in an ultrasound trap.
2.10pm - 2.20pm	Angus Wann	Signal pathways that contribute to movement-stimulated hyaluronan secretion in synovial joints <i>in vivo</i>
2.20pm - 2.30pm	Rebecca Harrison	Comparison of Gene Expression of Human Chondrocytes in Monolayer and 3D-Culture
2.30pm - 3.00pm	Rocky Tuan	Chondroregulatory Signals in Osteoarthritis

Tea/coffee break

### Session 6 - Advances in treating osteoarthritis

Chair persons: Graham Riley

Time	Presenter	Title
3.30pm - 4.00pm	Peter van der Kraan	Novel therapeutic targets in OA
4.00pm - 4.10pm	Linda Troeberg	Calcium pentosan polysulfate is a multi-functional aggrecanase inhibitor that enhances interaction with endogenous TIMP-3 in cartilage
4.10pm - 4.20pm	Caroline Curtin	Stem Cell Targeting Strategies for Cartilage Repair in a Functional Osteoarthritic Explant Model
4.20pm - 4.30pm	Helen Roberts	Chemically Modified Glucosamine Inhibits The Release of Proteoglycan In A Model System Of Articular Cartilage Degradation
4.30pm - 5.00pm	Carl Flannery	When, why and how didn't my cartilage go? - Biological Mechanisms and Potential Treatments in the Pathogenesis of Osteoarthritis

5.00pm - 5.15pm Poster prizes and presentation followed by Close of Meeting

**Meeting Sponsors**

