

**TBDP Annual Meeting**  
October 9-10, 2014  
*Restaurant Attila (Yliopistonkatu 38, Tampere)*

**Scientific Program**

**October 9**

- 10.15-10.30** Welcome / Professor Eeva Moilanen, Dean of TBDP
- 10.30-11.00** Elevated student presentation (Chair Eeva Moilanen)  
Morena Scotece (University of Santiago de Compostela, Spain):  
*Adipokines: novel targets in inflammation*
- 11.00-12.15** Student presentations groups I & II
- 12.15-13.15** Lunch
- 13.15-14.30** Student presentations groups III & IV
- 14.30-15.00** Elevated student presentation (Chair Juha Tuukkanen)  
Jari Rautiainen (University of Eastern Finland):  
*Evaluation of Cartilage Degeneration Using Novel MRI Techniques*
- 15.00-15.30** Elevated student presentation (Chair Juha Tuukkanen)  
Erja-Leena Paukkeri (University of Tampere):  
*PPAR agonists in the regulation of inflammatory genes*
- 15.30-16.00** Coffee
- 16.00** Welcome to FOARS (Finnish Osteoarthritis Research Society) Symposium  
(Chair Jari Arokoski)
- 16.00-17.00** Professor Brendan J Whittle (William Harvey Research Institute, London):  
*Aspects of the pharmacology and side-effect profile of non-steroidal anti-inflammatory drugs*
- 17.00-17.30** Docent Jari Arokoski (University of Eastern Finland):  
*Exercise in the treatment of knee and hip osteoarthritis*
- 17.30-18.00** Niveltieto-palkinto / Thesis Award Presentation  
Hannu Karjalainen (University of Eastern Finland)  
*Transcriptional responses of chondrocytic and osteoblastic cells to physical forces of hydrostatic and osmotic pressure, mechanical stretching, and low intensity pulsed ultrasound*
- 18.00-19.00** FOARSin vuosikokous / FOARS annual meeting
- 19.30 →** Dinner

## **October 10**

- 9.00-9.45** Professor Marjatta Leirisalo-Repo (Helsinki University Central Hospital):  
*Treatment of rheumatoid arthritis: from bloodletting to biologicals*
- 9.45-10.15** Elevated student presentation (Chair Vuokko Kovanen)  
Merja Hoffrén-Mikkola (University of Jyväskylä):  
*Functional muscle architecture in aging*
- 10.15-10.45** Coffee
- 10.45-11.45** Student presentations groups V & VI
- 11.45** Closing remarks / Professor Eeva Moilanen
- 12.00 →** Lunch

**Student presentation groups**  
**Thursday 9.10.2014, 11.00-12.15**

**GROUP I / Auditorium**

**Chair: Risto Honkanen**

***Imaging and inflammation I***

Mirka Laavola	Pinosylvin and Monomethyl pinosylvin, constituents of extract from the knot of <i>Pinus sylvestris</i> , reduce inflammatory gene expression and inflammatory response in vivo	University of Tampere
Mark Screen	Valosin-containing protein and lipid regulation: implications for treating inclusion body myopathy and dementia	University of Helsinki
Juuso Honkanen	Diffusion rate and equilibrium partition of an anionic contrast agent are different in cartilage and meniscus	University of Eastern Finland
Sami Väänänen	Functional imaging of proximal femur by combining dual energy X-ray imaging and finite element simulations	University of Eastern Finland

**GROUP II / Lesti**

**Chair: Mikko Lammi**

***Imaging and Inflammation II***

Markus Malo	Quantitative characterization of proximal femur using ultrasound pulse-echo measurements	University of Eastern Finland
Lasse Räsänen	Determination of fixed charge density of articular cartilage from NA-MRI – the effect on knee joint mechanics	University of Eastern Finland
Tiina Keränen	$\beta$ 2-receptor agonists and dexamethasone increase MKP-1 expression and inhibit TNF production	University of Tampere
Antti Pekurinen	MKP-1 regulates macrophage polarization and glucocorticoid effects	University of Tampere

**Thursday 9.10.2014, 13.15-14.30**

**GROUP III / Auditorium**

**Chair: Brendan Whittle**

*Cartilage*

Elina Nummenmaa	Effects of FGF-2 on MMP enzymes, aggrecan and type II collagen in primary human OA chondrocytes	University of Tampere
Lauri Tuure	Aurothiomalate inhibits the expression of mPGES-1 in primary human chondrocytes	University of Tampere
Petri Tanska	Biomechanical responses of chondrocyte in healthy and osteoarthritic human knee joint – effect of overweight	University of Eastern Finland
Piia Puhakka	Multivariate analysis of OCT signal in prediction of articular cartilage health	University of Eastern Finland
Mikko Venäläinen	Importance of inhomogeneous elastic properties of bone on mechanical responses of articular cartilage in human knee joint – a 3D finite element study	University of Eastern Finland

**GROUP IV / Lesti**

**Chair: Vesa Linnamo**

*Exercise / Elderly*

Jarmo Koli	The health related quality of life, physical activity, physical performance and mild knee osteoarthritis	University of Jyväskylä
Radhika Patil	Effects of a multimodal exercise program on falls and injuries among older women: a two-year community-based randomized controlled trial	University of Tampere
Sira Karvinen	Intrinsic aerobic capacity, physical activity and mortality	University of Jyväskylä
Axel Somersalo	Mortality after upper extremity fracture requiring inpatient care	University of Helsinki
Nadia Afrin	Morbidity as a risk factor for postmenopausal falls according to type of fall	University of Eastern Finland

**Friday 10.10.2014, 10.45-11.45**

**GROUP V / Auditorium**

**Chair: Heikki Kainulainen**

***Exercise / Injuries***

Kristian Johansson	Macroscopical anomalies and pathological findings in and around the Achilles tendon: observations from 1661 operations during 40 years	University of Turku
Roope Lasanen	Infrared thermography in spatial evaluation of back muscle activity	University of Eastern Finland
Moritz Schumann	Is strength training beneficial for endurance runners when performed always immediately after endurance running	University of Jyväskylä
Reeta Kangas	The effects of lifelong sprint training on inflammatory and apoptotic markers and a 10 year follow up study on male master athletes	University of Jyväskylä

**GROUP VI / Lesti**

**Chair: Marjatta Leirisalo-Repo**

***Clinical aspects***

Kati Markula-Patjas	Body composition and bone mineral density in juvenile idiopathic arthritis with previous glucocorticoid therapy	Tampere University Hospital
Janne Mäkelä	Fluid flow properties of articular cartilage change most in very early osteoarthritis	University of Eastern Finland
Tuija Väänänen	YKL-40 as a novel factor associated in inflammation and catabolic mechanisms in osteoarthritic joints	University of Tampere
Päivi Rauma	Effects of different antidepressants on postmenopausal bone loss – A 5-year longitudinal study from the OSTPRE cohort	University of Eastern Finland