

Wednesday April 28

Main session

Parallel session

What is Science? 09.00-09.30	
Conflict and cooperation	Per Aspenberg
Molecular methods 09.30-10.15	
Methodological overview	Michael Sigvardsson

Hard tissue biomechanics 10.45-11.45		CARE symposium 14.45-12.30	
Introduction	Hanna Isaksson Elizabeth Tanner	Tetraplegia surgery	Joakim Strömberg
Vitruous and vicious cycles in bone remodelling and their mechanical consequences		Osseointegration	Rickard Brånemark Örjan Berlin
		Osseointegrated prostheses	
Soft tissue biomechanics 11.45-12.30		Bionic Arm	Kertin Caine Winterberg
Cartilage; interaction between mechanics and inflammation	Harrie Weinans	Etc	Yan Li
Proteoglycans in disc function, degeneration, inflammation and back pain	Keita Ito		Kertin Hagberg

Osteoarthritis -from nano to patient management 13.30-14.30	
Structure vs symptoms	Stefan Lohmander
Effects of soft tissue surgery, exercise	Alan Grodzinsky
Bone cells; differentiation, function and hormonal regulation 14.30-15.30	
Bone cells; differentiation, function and hormonal regulation	Joanna Price

Free papers: Miscellaneous 1 14.30-15.30

Mechanoregulation of bone cells 16.15-17.15	
Mechanoregulation of bone cells	Joanna Price

Free papers: Miscellaneous 2 16.15-17.15

Thursday April 29

Main session

Parallel session

Stress fractures 08.15-09.00

Stress fractures in materials	Hanna Isaksson
Stress fractures in bone	
Atypical fractures	Jörg Schilcher

Fracture healing I 09.00-10.00

Histological stages of fracture repair and conventional and modern techniques.	Aaron Schindeler
The anabolic-catabolic model of orthopaedic repair	
Bisphosphonates and orthopaedics	

Molecular methods 10.45-11.30

Next Generation Sequencing i modern medicine	Henrik Green
Single cell analysis	Göran Karlsson

Free papers Arthroplasty knee 10.45-11.30

Tendinosis 11.30-12.30

The scientific study of tendinopathy – what's new?	Graham Riley
From physiological adaptation to overuse of tendon in sports	Michael Kjaer

Free papers Arthroplasty hip 11.30-12.30

Tendon rupture 13.30-14.30

How do tendons heal?	Pernilla Eliasson
Tendon as a composite material: damage, rupture and repair	Mark Thompson
Rotator cuff syndrome, theories and evidence	Hanna Björnsson-Hallgren

Fracture healing II 14.30-15.30

Pre-clinical models to study bone healing (Pitfalls, genetic models and infection models).	Aaron Schindeler
Metaphyseal fractures heal in a different way	Per Aspenberg

Controversies in osteoporosis 16.15-17.15

Capture the fracture - steps to prevent recurrence of fracture	Kristina Åkesson
Fractures in older adults: fragile bones or frail fracture prevention strategy?	Teppo Järvinen

General assembly

Friday April 29

Drugs in orthopedics 08.30-09.00

NSAIDs, BMPs, bisphosphonates and PTH

Per Aspenberg

Biomaterials 09.00-10.00

From rejection to osseointegration

Pentti Tengvall

Local drug-delivery from implants

Martin Andersson

Implant loosening 10.45-11.45

Inflammation and particles

Stuart Goodman

Instability activates osteoclasts

Anna Fahlgren

Observation, experiment and bias 11.45-12.30

Put your trust in RCTs or epidemiology?

Karl Michaëlsson

Physical activity: Can it make bones stronger and prevent fractures?

Harri Sievänen

Acta Lunch

Acta Seminar: Retreat from overtreatment 13.30-15.30

A podium discussion about recent randomized trials comparing surgery and non-operative treatment in a variety of conditions such as proximal humeral fractures, degenerative meniscal lesions and others. A sensational new RCT on spinal fusion will be presented. What is the consequence? We cannot stop operating altogether, can we?