

10 May 2012



08:30 Welcome address J Hilborn

Drug delivery & bioactive components, Chair: S Cool, Co-chair: A Hoess

- 09:00 Invited talk: The paracrine activity of implanted mesenchimal stem cells: a new regenerative medicine approach *R Cancedda*
- 09:30 Gallium-doped calcium phosphates as a new approach for the local delivery of antiresorptive species *B Bujoli*
- 09:45 Injectable hyaluronic acid hydrogel for bone tissue engineering O P Varghese

10:00 Coffee

Drug delivery & bioactive components continued, Chair: J Hilborn, Co-chair: O P Varghese

- 10:30 Invited talk: Lowering the Efficacious Dose of BMP-2 using Heparan Glycosaminoglycans *S Cool*
- 11:00 Antibiotic-loaded calcium phosphate cements and foams: Relationship between porosity and release behaviour *D Pastorino*
- 11:15 Injectable, Settable Polymer/β-TCP Bone Grafts for Delivery of rhBMP-2 S Guelcher
- 11:30 GRIBOI General Assembly
- 12:00 Lunch with posters 1

Bone substitution, stabilization and regeneration, Chair: J Chang, Co-chair: X Yang

- 13:45 Invited talk: Functionalized calcium phosphates: The role of crystal structure E Boanini
- 14:15 Degradation & characterisation of new biphasic calcium phosphate cements S Gallinetti
- 14:30 Study on silicate bioceramics J Chang
- 14:45 Invited talk: To be announced S McCullen
- 15:15 A New way of Forming Calcium Phosphate Cements Using Bioactive Glasses as Reactive Precursors, Part 1: Theory and Background Studies *R Hill*
- 15:30 Ultrasonication for the delivery of the hydraulic calcium-phosphate paste G Baroud

15:45 Coffe

Clinical session 1, Chair: S Larsson, Co-chair: M Montazerolghaem

- 16:15 Invited talk: Bioactivity and cytotoxic tests are antagonist M Bohner
- 16:45 Self hardening Macroporous Biphasic Calcium Phosphate bone void filler for bone reconstruction. Animal study and Human data *G Daculsi*
- 17:00 Invited talk: The use of hydrogel for craniofacial bone repair in humans T Engstrand
- 17:30 New Palliative Intervention in Painful Metastatic Bone Disease: The OsteoCool™ System *J Woo*
- 17:45 END of talks day 1
- 19:00 Dinner



11 May 2012



Clinica	l session 2, Chair: Z Werner, Co-chair: G Hulsart-Billström
08:30	Invited talk: Pathogenesis and treatment of periprosthetic joint infection Z Werner
09:00	Combination Percutaneous Threaded Screw and Methyl Methacrylate Stabilization of Cance
	and Post Radiation Induced Pelvic Fractures S Tutton
09:15	Vertebral Augmentation with targeted cement deposition technique after channels creation
	using a nitinol wire, the "Blazer" system S Tutton
09:30	Comparison Between Radiofrequency Targeted Vertebral Augmentation, Balloon
	Kyphoplasty and Vertebroplasty M Lorio
09:45	Early experience with a new intravertebral PEEK / biomaterial implant S Tutton
10:00	Coffee
Sponso	ored Workshops, Chair: P Procter, Co-chair: D Ossipov
10:30	CERAMENT workshop (organized by Bonesupport)
	The science behind it, clinical use and hands on.
11:30	Vexim workshop
	11:30: Height restoration and maintenance using the SpineJack procedure A Krüger
	11:40: Measuring anatomical restoration of vertebral compression fractures DC Noriega
11:50	Medtronic workshop
	Biomechanics of a new Inflatable Bone Tamp and First Case series M Kotrba
12:10	Lunch with posters 2
<u>Biome</u>	chanics , Chair: S Ferguson, Co-chair: A López
14:00	Invited talk: Biomechanics and mechanobiology in biomaterials research and tissue
	regeneration R Müller
14:30	Screw Augmentation using CaP Injectible Bone Cement CJ Brown
14:45	Injectable and flexible tricalcium phosphate/biopolymer composites for bone regeneration
	Y Maazouz
15:00	Vertebroplasty: Dependency of the Subsequent Fracture Risk Reduction on the Injection
	Location R Widmer
15:15	Coffee
Biome	chanics continued, Chair: R Müller, Co-chair: C Öhman
15:45	Invited talk: In Silico or In Vitro for Augmentation Studies: How, Why and When? S Ferguson
16:15	Development of a new method for imaging the bone-cement interface under load for FE
	model validation S Sikora
16:30	A validated finite element study comparing the use of calcium phosphate and PMMA
	cements for the augmentation of traumatically fractured vertebrae S Tarsuslugil
16:45	Effect of Cement Augmentation technique on the Fatigue and Pullout Strength of Pedicle

17:15-19:15 Workshops with snacks

Screws *R Kueny* 17:00 END of talks day 2

Clinical, J Hirsch, T Engstrand, and S Larsson, Room: 4003

SpineFX - The role of cadaveric models in pre-clinical testing, S Ferguson, Room: 4004



12 May 2012



Future trends, Chair: H Engqvist, Co-chair: S Kootala

- 08:30 Invited talk: Self-Assembling Bioactive Matrices for Tissue Regeneration S Stupp
- 09:00 Vascular network formation in tissue engineered constructs using endothelial-like-cells derived from mesenchymal stromal cells *K Janeczek Portalska*
- 09:15 Intraosseous forming implants for bone metastases treatment through locally combined hyperthermia and chemotherapy *M Mohamed*
- 09:30 A New way of Forming Calcium Phosphate Cements Using Bioactive Glasses as Reactive Precursors: Part 2 Experimental Cements N W Kent
- 09:45 Coffee

Future trends continued, Chair: S Stupp, Co-chair: O Podiyan

- 10:15 Invited talk: Enhancing screw fixation in poor quality cancellous bone: Present and future options *P Procter*
- 10:45 **CFD-Simulation of Percutaneous Vertebroplasty** *S Kolmeder*
- 11:15 Radiopaque Magnesium Phosphate Cements G Mestres
- 11:30 Final remarks and awards H Engqvist
- 12:30 Lunch (bag)

