

**GRIBOI 2013**  
Version 2A

<b>1<sup>st</sup> Day</b> <b>08-Apr-13</b>		Lecture	Interaction
8:00am-8:15am	<b>Opening</b>		
<b>Session 1.1</b>	<b>Skeletal repair and biomaterials platforms</b> Chairmen: J. Lane, S. Hollister	Minutes	
8:15am-8:40am	<b>Plenary No 1</b> David J MOONEY, USA <b>Approaches to musculoskeletal tissue repair</b>	25	
8:40am-8:55am	<b>Keynote No 1</b> Michael RAUSCHMAN, Germany <b>Development and clinical experience with augmented pedicle screws</b>	15	
8:55am-9:10am	<b>Keynote No 2</b> Khaled KEBASH, USA <b>Spinal deformity surgery in osteoporotic patients. Is a good outcome possible?</b>	15	
9:10am-9:20am	Q&A		10
9:20-10:00am	Breakfast (served)		
<b>Session 1.2</b>	<b>Skeletal repair and biomaterials platforms</b> Chairmen: J. Hirsch, P. Munk		
10:00am-10:15am	<b>Keynote No 3</b> Kieran MURPHY, Canada <b>Tumor, where good ideas come from? Innovation in interventions</b>	15	
10:15am-10:30am	<b>Keynote No 4</b> Allan BROOK, USA <b>Sacroplasty and augmentation in other weight bearing bones: Practical decision paradigms</b>	15	
10:30am-10:45am	<b>Keynote No 5</b> Giancarlo ANSELMETTI, Italy <b>Managing insufficiency fractures after transplant surgery</b>	15	
10:45-11:00am	Q&A		15
11:00-11:05am	Break		
<b>Session 1.3</b>	<b>Skeletal repair and biomaterials platforms</b> Chairmen: P. Sharrock, A. Krueger		
11:05am-11:20am	<b>Keynote No 6</b> Scott HOLLISTER, USA <b>Biomaterials platform in bone repair</b>	15	
11:20am-11:35am	<b>Keynote No 7</b> Osamu SUZUKI, Japan <b>Biodegradable octacalcium phosphate-hyaluronic acid composites as bone substitute materials</b>	15	
11:35am-11:50am	<b>Keynote No 8</b> Cristele COMBES, France <b>Osteo-articular pathological calcifications: a physico-chemical point of view</b>	15	
11:50am-12:00pm	Q&A		10
12:00pm-13:10pm	Lunch		

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<b>Session 1.4</b>	<b>Hip prophylaxis</b>	Chairmen: K. Kebaish, O. Suzuki
13:10pm-13:35pm	<b>Plenary No 2</b> Joseph LANE, USA <b>Hip repair and prophylaxis</b>	25
13:35pm-13:50pm	<b>Keynote No 9</b> Jean-Michel BOULER, France <b>Bisphosphonates-combined matrices to prevent osteoporotic fracture</b>	15
13:50pm-14:05pm	<b>Keynote No 10</b> Jöns HILBORN, Sweden <b>Injectable BMP-2 containing hydrogels for bone regeneration</b>	15
14:05pm-14:15pm	Selected Abstract No 1 Olivier GAUTHIER, France <b>Bone reconstruction with a bupivacaine-loaded injectable calcium phosphate cement can reduce postoperative pain after iliac bone graft harvesting procedure in a canine model</b>	10
14:15pm-14:25pm	Selected Abstract No 2 Edgar MONTUFAR, Spain <b>Discerning the role of the setting reaction on the injection behaviour of tricalcium phosphate paste</b>	10
14:25pm-14:35pm	Selected Abstract No 3 Elise VERRON, France <b>Injectable BP-loaded cement to reinforce sheep osteoporotic vertebral bodies</b>	10
14:35pm-14:50pm	Q&A	15

<b>Session 1.5</b>	<b>Under extremities</b>	Chairmen: M. Rauschmann, S. Tutton
14:50pm-15:10pm	<b>Keynote No 11</b> Thomas RUSSELL, USA <b>Calcium-phosphate in depressed tibial plateau fracture</b>	20
15:10pm-15:30pm	<b>Keynote No 12</b> Philip PROCTER, Switzerland <b>Designing augmentation system</b>	20
15:30pm-15:45pm	<b>Keynote No 13</b> Randell ERB, USA <b>Micro-structural reinforcement in orthophosphate</b>	15
15:45pm-15:55pm	Selected Abstract No 4 Chris BROWN, UK <b>Developments in CaP injectable cement for screw fixation</b>	10
15:55pm-16:05pm	Selected Abstract No 5 Nathalie DOUARD, France <b>Macroporous ceramics of carbonated hydroxyapatite for bone grafting applications</b>	10
16:05pm-16:15pm	Selected Abstract No 6 Mohammed ARAB MOTLAGH, Germany <b>PMMA-hydroxyapatite composite material increases lifetime of augmented bone and facilitates bone apposition to PMMA</b>	10
16:15pm-16:25pm	Q&A	10
16:25pm-16:55pm	Coffeebreak	

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<b>Session 1.6</b>	<b>Scaffold for bone defects</b>	Chairmen: J.M. Bouler, M. Bohner	
16:55pm-17:10pm	<b>Keynote No 14</b> Maria Pau GINEBRA, Spain <b>Architecture control and characterization in injectable bone graft substitutes</b>		15
17:10pm-17:25pm	<b>Keynote No 15</b> Amy J. WAGONER JOHNSON, USA <b>Multiscale cell seeding in CaP scaffolds of controlled macro and microporosity</b>		15
17:25pm-17:40pm	<b>Keynote No 16</b> Michael LIEBSCHNER, USA <b>Development of an intra-operative artificial tissue fabrication approach for reconstruction of large defects</b>		15
17:40pm-17:50pm	Selected Abstract No 7 Marco Antonio LOPEZ HEREDIA, Germany <b>Dynamic cell culture on glassy crystalline calcium alkali orthophosphates scaffolds</b>		10
17:50pm-17:55pm	Short Abstract No 1 Gamal BAROUD, Canada <b>Scaffold characterization and design</b>		5
17:55pm-18:05pm	Q&A		10

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**2<sup>nd</sup> Day**      **09-Apr-13**

7:00am-8:00am      Breakfast

<b>Session 2.1</b>	<b>Bone augmentation</b>	Chairmen: D. Noreiga, T. Russell
8:00am-8:15am	<b>Keynote No 17</b> Sean TUTTON, USA <b>Screw augmentation and image guidance</b>	15
8:15am-8:30am	<b>Keynote No 18</b> Luigi MANFRE, Italy <b>Prophylactic VP</b>	15
8:30am-8:45am	<b>Keynote No 19</b> Peter JARZEM, Canada <b>Vertebral augmentation: Lessons from the laboratory</b>	15
8:45am-8:55am	Selected Abstract No 8 Matti SCHOLZ, Germany <b>Cement augmented anterior screw fixation of dens type II osteoporotic fracture</b>	10
8:55am-9:05am	Selected Abstract No 9 Jose María TRIGUEROS LARREA, Spain <b>Rescue from the cut-out: cement augmentation of a gamma nail</b>	10
9:05am-9:15am	Selected Abstract No 10 Georgios VASTARDIS, USA <b>Cement distribution after percutaneous unilateral transpedicular balloon kyphoplasty for the mid &amp; upper thoracic spine.</b>	10
9:15am-9:25am	Selected Abstract No 11 Sven MOERK, Germany <b>Beyond the beginning-Cervial kyphoplasty</b>	10
9:25am-9:40am	Q&A	15

<b>Session 2.2</b>	<b>Tumor management</b>	Chairmen: GC. Anselmetti, K. Murphy
9:40am-9:55am	<b>Keynote No 20</b> Peter MUNK, Canada <b>Osteoplasty of the pelvis</b>	15
9:55am-10:10am	<b>Keynote No 21</b> Bassem GEORGY, USA <b>Tumor management</b>	15
10:10am-10:25am	<b>Keynote No 22</b> Alexis KELEKIS, Greece <b>Tumour management</b>	15
10:25am-10:35am	Selected Abstract No 12 Matias ALFONSO, Spain <b>Vertebroplasty with chemotherapeutic agents in pigs</b>	10
10:35am-10:45am	Q&A	10

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<b>Session 2.3</b>	<b>Procedures and innovation</b>	<b>Chairmen: S. Becker, M. Lorio</b>	
10:45am-10:55am	Eric GILBERT, USA <b>New Augmentation devices and regulatory hurdles</b>		10
10:55am-11:05am	Giancarlo ANSELMETTI, Italy <b>Cancer patients treated with Kiva</b>		10
11:05am-11:15am	Anthonio KRUEGER, Germany <b>Anatomical reconstruction technology</b>		10
11:15am-11:25am	Chris GILLIGAN, USA <b>SJ joint technology and pain management</b>		10
11:25am-11:35am	Morgan LORIO, USA <b>One year results from a US IDE trial evaluating the OsseoFix implant for treatment of vertebral compression fractures</b>		10
11:35am-11:45am	Robert POSER, USA <b>Initial clinical experience using novel radiofrequency systems for targeted ablation and augmentation of spinal tumors</b>		10
11:45am-11:55am	Q&A		10
11:55am-12:30pm	GRIBOI Assembly		35
12:30pm-13:30pm	Lunch		

<b>Session 2.4</b>	<b>Traumatic Vertebral Fractures</b>	<b>Chairmen: P. Jarzem, B. Georgy</b>	
13:30pm-13:45pm	Keynote No 23 Chris BONO, USA <b>Surgical management of vertebral traumatic fractures</b>		15
13:45pm-14:00pm	Keynote No 24 Natale FANCAVIGLIA, Italy <b>10-year experience in percutaneous management of traumatic vertebral fractures</b>		15
14:00pm-14:20pm	Keynote No 25 David NORIEGA, Spain <b>Cranio-Caudal expandable implant for fracture management</b>		20
14:20pm-14:35pm	Keynote No 26 Stephan BECKER, Austria <b>Changed focus in spine surgery: from fusion models/biomaterials to disc models/biomaterials</b>		15
14:35pm-14:45pm	Selected Abstract No 13 Paul DUFORT, Canada <b>An automated algorithm for measuring 3D vertebral height restoration</b>		10
14:45pm-14:55pm	Selected Abstract No 14 Anand AGARWAL, USA <b>Biodegradable cement to replace PMMA cement in management of VCF</b>		10
14:55pm-15:05pm	Selected Abstract No 15 Danielle MILES, UK <b>Injectable peptide/glycosaminoglycan hydrogels and their potential use for minimally invasive nucleus pulposus augmentation</b>		10
15:05pm-15:15pm	Q&A		10
15:15pm-15:20pm	Break		

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<b>Session 2.5</b>	<b>Biomechanics 1</b>	Chairmen: M. Bohner, M. Ginebra
15:20pm-15:35pm	<b>Keynote No 27</b> Nicolas DUNNE, UK <b>Potential of fibre reinforced calcium phosphate cements for load bearing orthopaedic applications</b>	15
15:35pm-15:45pm	Selected Abstract No 16 Daniel SKRZYPIEC, UK <b>Effect of cement injection on mechanical properties in fractured and prophylactically augmented multiple myeloma vertebrae</b>	10
15:45pm-15:55pm	Selected Abstract No 17 Ondrej HOLUB, UK <b>Is morphology alone an effective indicator when planning prophylactic vertebroplasty in multiple myeloma patients?</b>	10
15:55pm-16:05pm	Selected Abstract No 18 Ingrid AJAXON, Sweden <b>Compressive fatigue properties of acrylic bone cement for vertebroplasty</b>	10
16:05pm-16:15pm	Selected Abstract No 19 Sami TARSUSLUGI, UK <b>Investigation of facet joint properties for the assessment of interventions in the functional spinal unit</b>	10
16:15pm-16:25pm	Q&A	10
16:25pm-16:55pm	Coffeebreak	

<b>Session 2.5</b>	<b>Biomechanics 2</b>	Chairmen: N. Dunne, M. Liebschner
16:55pm-17:10pm	<b>Keynote No 28</b> Alison JONES, UK <b>Simulation of patient variance</b>	15
17:10pm-17:20pm	Selected Abstract No 20 Antony BOU FRANCIS, UK <b>Novel 2D bone surrogate models for assessing cement injection behaviour in vertebroplasty</b>	10
17:20pm-17:30pm	Selected Abstract No 21 Alejandro LOPEZ, Sweden <b>Mechanical and in vitro evaluation of low-modulus bone cement - Osteopal V modified with linoleic acid</b>	10
17:30pm-17:40pm	Selected Abstract No 22 Andrew HARMATA, USA <b>Effects of surface modification of 45S5 bioactive glass on dynamic compressive fatigue mechanical properties of polymeric biocomposites</b>	10
17:40pm-17:50pm	Selected Abstract No 23 Ondrej HOLUB, UK <b>Augmentation of cadaveric vertebrae with an <math>\alpha</math>-TCP/ <math>\alpha</math>-CSH ceramic cement</b>	10
17:50pm-18:00pm	Q&A	10

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**3<sup>rd</sup> Day**      **10-Apr-13**

7:00am-8:00am      Breakfast

<b>Session 3.1</b>	<b>Beyond PMMA and CPC</b>	Chairmen: S. Guelcher, A. J. Wagoner-Johnson	
8:00am-8:15am	<b>Keynote No 29</b> Charles SFEIR, USA <b>Novel resorbable calcium-phosphate putty for bone tissue engineering</b>		15
8:15am-8:30am	<b>Keynote No 30</b> Kerem KALPAKCI, USA <b>Bone void filler</b>		15
8:30am-8:45am	<b>Keynote No 31</b> Scott GUELCHER, USA <b>Injectable, settable lysine-derived polyurethane grafts for bone regeneration</b>		15
8:45am-8:55am	Q&A		10
8:55am-9:05am	Selected Abstract No 24 Robert Hill, UK <b>A Clinical Case Study: Using a strontium substituted Bioactive Glass - Stronbone - to fill alveolar sockets</b>		10
9:05am-9:15am	Selected Abstract No 25 Anne TALLEY, USA <b>In vivo rhBMP-2 Release from Degradable Polyurethane Biocomposites</b>		10
9:15am-9:25am	Selected Abstract No 26 Margarita PRIETO, USA <b>Effects of rhBMP-2 and mineralized matrix composition on osteoclastic differentiation and resorptive activity</b>		10
9:25am-9:35am	Selected Abstract No 27 Niall KENT, UK <b>In vivo ovine animal study of bioglass-based calcium phosphate cement</b>		10
9:35am-9:45am	Selected Abstract No 28 Jeroen JJP van den BEUCKEN, Netherlands <b>Effects of an osteoporotic condition on the biological performance of injectable CP/PLGA cements</b>		10
9:45am-9:50am	Q&A		5

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<b>Session 3.2</b>	<b>Hydrogels and Biologics</b>	<b>Chairmen: W. Wagner, P. Weiss</b>
9:50am-10:10pm	<b>Keynote No 32</b> William R. WAGNER, USA <b>Thermoresponsive hydrogel development for the interruption of adverse remodelling processes in ischemic cardiomyopathy</b>	20
10:10am-10:25am	<b>Keynote No 33</b> Jiang CHANG, China <b>Study on injectable silicates/alginate composite hydrogels</b>	15
10:25am-10:40am	<b>Keynote No 34</b> Pierre WEISS, France <b>Hydrogels and musculoskeletal applications</b>	15
10:40am-10:50am	Selected Abstract No 29 Zhidao XIA, UK <b>Revisit immune responses to silkworm silk</b>	10
10:50am-11:00am	Selected Abstract No 30 Jim TRIFFITT, UK <b>Stem cells update</b>	10
11:00am-11:10am	Selected Abstract No 31 Mei WEI, USA <b>Biomimetic collagen/apatite scaffolds for bone repair and regeneration</b>	10
11:10am-11:20am	Selected Abstract No 32 Mariagemiliana DESSI, UK <b>Novel biomimetic thermosensitive b-TCP/chitosan based hydrogels for bone tissue engineering</b>	10
11:20am-11:25am	Short Abstract No 2 Agata SKWARCZYNSKA, Poland <b>Acceleration of gelation and increased mineralization of thermosensitive chitosan hydrogels by incorporation of alkaline phosphate</b>	5
11:25am-11:35am	Q&A	10



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<b>Session 3.3</b>	<b>Calcium-phosphate platform</b>	<b>Chairmen: J. Chang, P. Sharrock</b>	
11:35am-11:50am	Keynote No 35 Patrick SHARROCK, France <b>Hydroxyapatite made easy</b>		15
11:50am-12:00pm	Selected Abstract No 33 Mei WEI, USA <b>Influence of iron oxidation state on magnetic properties of iron substituted hydroxyapatite</b>		10
12:00pm-12:10pm	Selected Abstract No 34 Ross ORMSBY, UK <b>Development of ion substituted calcium phosphate cement for spinal repair</b>		10
12:10pm-12:20pm	Selected Abstract No 35 Rory O'NEILL, UK <b>Experimental and analytical investigation into the mechanism of filter pressing of calcium phosphate pastes during injection</b>		10
12:20pm-12:30pm	Selected Abstract No 36 Seunghwan LEE, Denmark <b>Injectable lubricants for prosthetic articular joints</b>		10
12:30pm-12:40pm	Selected Abstract No 37 Johanna ENGSTRAND, Sweden <b>Optimization of an acidic calcium phosphate cement with enhanced radiopacity</b>		10
12:40pm-12:50pm	Q&A		10

Total Interactivity Minutes

205

Total Lecture and Interactivity Minutes

1240

**Total Percentage**

**16.53**