

GRIBOI 2013

1st Day	08-Apr-13
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8:00am-8:15am	Opening
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Session 1.1	Skeletal repair and biomaterials platforms Chairmen: J. Lane, S. Hollister
8:15am-8:40am	Plenary No 1 2 David J MOONEY, USA Approaches to musculoskeletal tissue repair
8:40am-8:55am	Keynote No 1 2 Michael RAUSCHMANN, Germany Development and clinical experience with augmented pedicle screws
8:55am-9:10am	Keynote No 2 3 Khaled KEBASH, USA Spinal deformity surgery in osteoporotic patients. Is a good outcome possible?
9:10am-9:20am	Q&A
9:20-10:00am	Breakfast (served)

Session 1.2	Skeletal repair and biomaterials platforms Chairmen: J. Hirsch, P. Munk
10:00am-10:15am	Keynote No 3 5 Kieran MURPHY, Canada Tumor, where good ideas come from? Innovation in interventions
10:15am-10:30am	Keynote No 4 6 Allan BROOK, USA Sacroplasty and augmentation in other weight bearing bones: Practical decision paradigms
10:30am-10:45am	Keynote No 5 6 Giancarlo ANSELMETTI, Italy Managing insufficiency fractures after transplant surgery
10:45-11:00am	Q&A
11:00-11:05am	Break

Session 1.3	Skeletal repair and biomaterials platforms Chairmen: P. Sharrock, A. Krueger
11:05am-11:20am	Keynote No 6 8 Scott HOLLISTER, USA Modular scaffold engineering for skeletal reconstruction
11:20am-11:35am	Keynote No 7 9 Osamu SUZUKI, Japan Biodegradable octacalcium phosphate-hyaluronic acid composites as bone substitute materials
11:35am-11:50am	Keynote No 8 10 Cristele COMBES, France Osteo-articular pathological calcifications: a physico-chemical point of view
11:50am-12:00pm	Q&A
12:00pm-13:10pm	Lunch

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Session 1.4	Hip prophylaxis	Chairmen: K. Kebaish, O. Suzuki
13:10pm-13:35pm	Plenary No 2 Joseph LANE, USA Hip repair and prophylaxis	12
13:35pm-13:50pm	Keynote No 9 Jean-Michel BOULER, France Bisphosphonates-combined matrices to prevent osteoporotic fracture	13
13:50pm-14:05pm	Keynote No 10 Jöns HILBORN, Sweden Injectable BMP-2 containing hydrogels for bone regeneration	14
14:05pm-14:15pm	Selected Abstract No 1 Olivier GAUTHIER, France Bone reconstruction with a bupivacaine-loaded injectable calcium phosphate cement can reduce postoperative pain after iliac bone graft harvesting procedure in a canine model	15
14:15pm-14:25pm	Selected Abstract No 2 Edgar MONTUFAR, Spain Discerning the role of the setting reaction on the injection behaviour of tricalcium phosphate paste	16
14:25pm-14:35pm	Selected Abstract No 3 Elise VERRON, France Injectable BP-loaded cement to reinforce sheep osteoporotic vertebral bodies	17
14:35pm-14:50pm	Q&A	

Session 1.5	Under extremities	Chairmen: M. Rauschmann, S. Tutton
14:50pm-15:10pm	Keynote No 11 Thomas RUSSELL, USA Calcium-phosphate in depressed tibial plateau fracture	19
15:10pm-15:30pm	Keynote No 12 Philip PROCTER, Switzerland Designing augmentation system	20
15:30pm-15:45pm	Keynote No 13 Randall ERB, USA Controlling the orientation of Ca-derived elements within structural composites	21
15:45pm-15:55pm	Selected Abstract No 4 Chris BROWN, UK Developments in CaP injectable cement for screw fixation	22
15:55pm-16:05pm	Selected Abstract No 5 Nathalie DOUARD, France Macroporous ceramics of carbonated hydroxyapatite for bone grafting applications	23
16:05pm-16:15pm	Selected Abstract No 6 Mohammed ARAB MOTLAGH, Germany PMMA-hydroxyapatite composite material increases lifetime of augmented bone and facilitates bone apposition to PMMA	24
16:15pm-16:25pm	Q&A	
16:25pm-16:55pm	Coffeebreak	

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Session 1.6	Scaffold for bone defects	Chairmen: J.M. Boulter, M. Bohner
16:55pm-17:10pm	Keynote No 14 Maria Pau GINEBRA, Spain Architecture control and characterization in injectable bone graft substitutes	26
17:10pm-17:25pm	Keynote No 15 Amy J. WAGONER JOHNSON, USA Multiscale cell seeding in CaP scaffolds of controlled macro and microporosity	27
17:25pm-17:40pm	Keynote No 16 Michael LIEBSCHNER, USA Development of an intra-operative artificial tissue fabrication approach for reconstruction of large defects	28
17:40pm-17:50pm	Selected Abstract No 7 Marco Antonio LOPEZ HEREDIA, Germany Dynamic cell culture on glassy crystalline calcium alkali orthophosphates scaffolds	29
17:50pm-18:00pm	Short Abstract No 1 Mohamed HABIB, Egypt Wet-chemical process to synthesize the biphasic calcium-phosphate powder	30
18:00pm-18:10pm	Q&A	

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2nd Day	09-Apr-13
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7:00am-8:00am	Breakfast
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Session 2.1	Bone augmentation	Chairmen: D. Noreiga, T. Russell
8:00am-8:15am	Keynote No 17 Sean TUTTON, USA Screw augmentation and image guidance	32
8:15am-8:30am	Keynote No 18 Luigi MANFRE, Italy Prophylactic VP	33
8:30am-8:45am	Keynote No 19 Peter JARZEM, Canada Does balloon kyphoplasty deliver more cement safely into osteoporotic vertebrae with posterior wall defects compared to vertebroplasty?	35
8:45am-8:55am	Selected Abstract No 8 Matti SCHOLZ, Germany Cement augmented anterior screw fixation of dens type II osteoporotic fracture	36
8:55am-9:05am	Selected Abstract No 9 Jose María TRIGUEROS LARREA, Spain Rescue from the cut-out: cement augmentation of a gamma nail	37
9:05am-9:15am	Selected Abstract No 10 Georgios VASTARDIS, USA Cement distribution after percutaneous unilateral transpedicular balloon kyphoplasty for the mid & upper thoracic spine.	38
9:15am-9:25am	Selected Abstract No 11 Sven MOERK, Germany Beyond the beginning-Cervical kyphoplasty	40
9:25am-9:40am	Q&A	

Session 2.2	Tumor management	Chairmen: GC. Anselmetti, K. Murphy
9:40am-9:55am	Keynote No 20 Peter MUNK, Canada Osteoplasty of the pelvis	42
9:55am-10:10am	Keynote No 21 Bassem GEORGY, USA Tumor management	43
10:10am-10:25am	Keynote No 22 Alexis KELEKIS, Greece Tumour management	44
10:25am-10:35am	Selected Abstract No 12 Matias ALFONSO, Spain Vertebroplasty with chemotherapeutic agents in pigs	45
10:35am-10:45am	Q&A	

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Session 2.3	Procedures and innovations	Chairmen: S. Becker, M. Lorio
10:45am-10:55am	Eric GILBERT, USA New Augmentation devices and regulatory hurdles	47
10:55am-11:05am	Giancarlo ANSELMETTI, Italy Cancer patients treated with Kiva	48
11:05am-11:15am	Anthonio KRUEGER, Germany Anatomical reconstruction technology	49
11:15am-11:25am	Chris GILLIGAN, USA SJ joint technology and pain management	49
11:25am-11:35am	Morgan LORIO, USA One year results from a US IDE trial evaluating the OsseoFix implant for treatment of vertebral compression fractures	50
11:35am-11:45am	Robert POSER, USA Initial clinical experience using novel radiofrequency systems for targeted ablation and augmentation of spinal tumors	51
11:45am-11:55am	Kieran MURPHY, Canada A Novel Device for Radiofrequency Ablation of Bone Metastases	52
11:55am-12:00pm	Q&A	
12:00pm-12:30pm	GRIBOI Assembly	
12:30pm-13:30pm	Lunch	

Session 2.4	Traumatic Vertebral Fractures	Chairmen: P. Jarzem, B. Georgy
13:30pm-13:45pm	Keynote No 23 Chris BONO, USA Surgical management of vertebral traumatic fractures	55
13:45pm-14:00pm	Keynote No 24 Natale FANCAVIGLIA, Italy 10-year experience in precutaneous management of traumatic vertebral fractures	56
14:00pm-14:20pm	Keynote No 25 David NORIEGA, Spain Cranio-Caudal expandable implant for fracture management	57
14:20pm-14:35pm	Keynote No 26 Stephan BECKER, Austria Changed focus in spine surgery: from fusion models/biomaterials to disc models/biomaterials	58
14:35pm-14:45pm	Selected Abstract No 13 Paul DUFORT, Canada An automated algorithm for measuring 3D vertebral height restoration	59
14:45pm-14:55pm	Selected Abstract No 14 Anand AGARWAL, USA Biodegradable cement to replace PMMA cement in management of VCF	60
14:55pm-15:05pm	Selected Abstract No 15 Danielle MILES, UK Injectable peptide/glycosaminoglycan hydrogels and their potential use for minimally invasive nucleus pulposus augmentation	63
15:05pm-15:15pm	Q&A	
15:15pm-15:20pm	Break	

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Session 2.5	Biomechanics 1	Chairmen: M. Bohner, M. Ginebra
15:20pm-15:35pm	Keynote No 27 Nicolas DUNNE, UK Potential of fibre reinforced calcium phosphate cements for load bearing orthopaedic applications	65
15:35pm-15:45pm	Keynote No 28 Elise MORGAN Vertebral microstructure, failure and augmentation	66
15:45pm-15:55pm	Selected Abstract No 16 Daniel SKRZYPIEC, UK Effect of cement injection on mechanical properties in fractured and prophylactically augmented multiple myeloma vertebrae	67
15:55pm-16:05pm	Selected Abstract No 17 Ondrej HOLUB, UK Is morphology alone an effective indicator when planning prophylactic vertebroplasty in multiple myeloma patients?	68
16:05pm-16:15pm	Selected Abstract No 18 Sami TARSUSLUGI, UK Investigation of facet joint properties for the assessment of interventions in the functional spinal unit	69
16:15pm-16:25pm	Q&A	
16:25pm-16:55pm	Coffeebreak	

Session 2.5	Biomechanics 2	Chairmen: N. Dunne, M. Liebschner
16:55pm-17:10pm	Keynote No 29 Alison JONES, UK Simulation of patient variance	71
17:10pm-17:20pm	Selected Abstract No 19 Antony BOU FRANCIS, UK Novel 2D bone surrogate models for assessing cement injection behaviour in vertebroplasty	72
17:20pm-17:30pm	Selected Abstract No 20 Alejandro LOPEZ, Sweden Mechanical and in vitro evaluation of low-modulus bone cement - Osteopal V modified with linoleic acid	73
17:30pm-17:40pm	Selected Abstract No 21 Ingrid AJAXON, Sweden Compressive fatigue properties of acrylic bone cement for vertebroplasty	74
17:40pm-17:50pm	Selected Abstract No 22 Ondrej HOLUB, UK Augmentation of cadaveric vertebrae with an α-TCP/ α-CSH ceramic cement	75
17:50pm-18:00pm	Q&A	

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3rd Day 10-Apr-13

7:00am-8:00am Breakfast

Session 3.1	Beyond PMMA and CPC	Chairmen: S. Guelcher, A. J. Wagoner-Johnson
8:00am-8:20am	Keynote No 30 Charles SFEIR, USA Novel resorbable calcium-phosphate putty for bone tissue engineering	77
8:20am-8:40am	Keynote No 31 Kerem KALPAKCI, USA Market needs and regulatory challenges associated with bone void fillers	78
8:40am-9:00am	Keynote No 32 Scott GUELCHER, USA Injectable, settable lysine-derived polyurethane grafts for bone regeneration	79
9:00am-9:10am	Selected Abstract No 23 Robert Hill, UK A clinical case study: using a strontium substituted bioactive glass - Stronbone - to fill alveolar sockets	80
9:10am-9:20am	Selected Abstract No 24 Anne TALLEY, USA In vivo rhBMP-2 release from degradable polyurethane biocomposites	81
9:20am-9:30am	Selected Abstract No 25 Margarita PRIETO, USA Effects of rhBMP-2 and mineralized matrix composition on osteoclastic differentiation and resorptive activity	82
9:30am-9:40am	Selected Abstract No 26 Niall KENT, UK In vivo ovine animal study of bioglass-based calcium phosphate cement	84
9:40am-9:50am	Selected Abstract No 27 Jeroen JJP van den BEUCKEN, Netherlands Effects of an osteoporotic condition on the biological performance of injectable CP/PLGA cements	85
9:50am-9:55am	Q&A	

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Session 3.2	Hydrogels and Biologics	Chairmen: W. Wagner, P. Weiss
9:55am-10:15pm	Keynote No 33 William R. WAGNER, USA Thermoresponsive hydrogel development for the interruption of adverse remodelling processes in ischemic cardiomyopathy	87
10:15am-10:30am	Keynote No 34 Jiang CHANG, China Study on injectable silicates/alginate composite hydrogels	88
10:30am-10:45am	Keynote No 35 Pierre WEISS, France Hydrogels and musculoskeletal applications	89
10:45am-10:55am	Selected Abstract No 28 Zhidao XIA, UK Revisit immune responses to silkworm silk	90
10:55am-11:05am	Selected Abstract No 29 Jim TRIFFITT, UK Stem cells update	91
11:05am-11:15am	Selected Abstract No 30 Mei WEI, USA Biomimetic collagen/apatite scaffolds for bone repair and regeneration	92
11:15am-11:25am	Selected Abstract No 31 Andrew HARMATA, USA Effects of surface modification of 45S5 bioactive glass on dynamic compressive fatigue mechanical	93
11:25am-11:30am	Short Abstract No 2 Agata SKWARCZYNSKA, Poland Acceleration of gelation and increased mineralization of thermosensitive chitosan hydrogels by incorporation of alkaline phosphate	94
11:30am-11:40am	Q&A	

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Session 3.3	Calcium-phosphate platform	Chairmen: J. Chang, P. Sharrock
11:40am-11:55am	Keynote No 36 Patrick SHARROCK, France Hydroxyapatite made easy	96
11:55am-12:05pm	Selected Abstract No 32 Mei WEI, USA Influence of iron oxidation state on magnetic properties of iron substituted hydroxyapatite	97
12:05pm-12:15pm	Selected Abstract No 33 Ross ORMSBY, UK Development of ion substituted calcium phosphate cement for spinal repair	98
12:15pm-12:25pm	Selected Abstract No 34 Rory O'NEILL, UK Experimental and analytical investigation into the mechanism of filter pressing of calcium phosphate pastes during injection	100
12:25pm-12:35pm	Selected Abstract No 35 Seunghwan LEE, Denmark Injectable lubricants for prosthetic articular joints	101
12:35pm-12:45pm	Selected Abstract No 36 Johanna ENGSTRAND, Sweden Optimization of an acidic calcium phosphate cement with enhanced radiopacity	102
12:45pm-12:55pm	Q&A	