

## Scientific program GRIBOI 2014

1st Day May 5th 2014

8:00 – 8:15	<b>Opening</b>
-------------	----------------

<b>Session 1.1</b>	<b>Aging spine biology, VBA and reconstruction – Chairmen : J. Hirsch &amp; P. Munk</b>
8:15 – 8:40	<i>Keynote Lecture: H. Deramont</i> ‘30 years of vertebroplasty’
8:40 – 8:55	<i>Keynote Lecture: J. Hirsch</i> ‘Vertebral augmentation: One’s man view from New England!’
8:55 – 9:10	<i>Keynote Lecture: A. Kelekis</i> ‘Failure of Spinal Bone Augmentation: when cement is not enough...’
9:10 – 9:25	<i>Keynote Lecture: H. Tang</i> ‘VP surgery in PR China’
9:25 – 9:35	<i>Selected Abstract: P. Korovessis</i> ‘Is kiva implant advantageous to balloon kyphoplasty in treating spinal osteolytic metastasis? a prospective randomized controlled study.’
9:35 – 9:45	Q&A

9:45– 10 :15	Coffee break
--------------	--------------

<b>Session 1.2</b>	<b>Calcium phosphate materials and Biomineralization (I) – Chairmen: F. Fayon &amp; M.-P. Ginebra</b>
10:15–10:40	<i>Keynote Lecture: W. Habraken</i> ‘Going into the deep: Ion-association complexes at the cradle of biomimetic calcium phosphate’
10:40–10:55	<i>Keynote Lecture: M. Sandri</i> ‘Magnetic Bioactive and Biodegradable Hollow Fe-Doped Hydroxyapatite Coated Poly(L-lactic) Acid Micro-nanospheres’
10:55–11:05	<i>Selected Abstract: E.B. Montufar</i> ‘Thermoresponsive calcium phosphate cements’
11:05–11:15	<i>Selected Abstract: J.V. Hanna</i> ‘A solid state <sup>31</sup> P and <sup>29</sup> Si MAS NMR, <sup>43</sup> Ca DOR NMR, and GIPAW DFT study of α-tricalcium phosphate and Si-substituted α-tricalcium phosphate bioactive materials’
11:15–11:30	Q&A

<b>Session 1.3</b>	<b>Biomechanical and injectability issues – Chairmen : G. Baroud &amp; D. Pioletti</b>
11:30–11:50	<i>Keynote Lecture: G. Baroud</i> ‘Update on the biomechanics of VBA’
11:50–12:00	<i>Selected Abstract: R. O’Neil</i> ‘Powder and liquid flow regimes during extrusion of calcium phosphate pastes’
12:00–12:10	<i>Selected Abstract: S. Tadier</i> ‘Separation phenomena occurring during the injection of β-tricalcium phosphate and glass beads aqueous pastes’
12:10–12:20	<i>Selected Abstract: M.P. Hofmann</i> ‘Injectability of a new calcium aluminate cement for endodontic application (Endobinder)’
12:20–12:25	<i>Selected Abstract: C. Lambert</i> ‘review of the aspiration and PMMA delivery techniques in augmentation procedures’
12:25–12:35	Q&A

12:35–14:00	Lunch
-------------	-------

<b>Session 1.4</b>	<b>Fracture healing – Chairmen: H. Deramont &amp; J. Lane</b>
14:00–14:25	<i>Keynote Lecture: H. Pascal-Moussellard</i> ‘Rational for vertebral body augmentation in thoraco-lumbar spine fracture’
14:25–14:50	<i>Keynote Lecture: K. Murphy</i> ‘Prophylactic bone augmentation in high risks patients’
14:50–15:15	<i>Keynote Lecture: D. Noriega</i> ‘Long term clinical results from using SpineJack <sup>®</sup> ’
15:15–15:40	<i>Keynote Lecture: S. Larsson</i> ‘Anti-osteoporosis therapy and fracture healing’
15:40–15:45	Q&A

15:45–16:10	Coffee break
-------------	--------------

<b>Session 1.5</b>	<b>Skeletal repair and biomaterials (I) – Chairmen: M. Bohner &amp; W. Lu</b>
16:10–16:30	<i>Keynote Lecture: W. LU</i> ‘Development of injectable biomaterials in PR China’
16:30–16:50	<i>Keynote Lecture: N. Rochet</i> ‘From MSC to blood for bone reconstruction: the story of BRB’
16:50–17:10	<i>Keynote Lecture: M. Lopez-Heredia</i> ‘Bone to go: Metal, ceramic or polymer?’
17:10–17:20	<i>Selected Abstract: S. Guelcher</i> ‘Space maintenance and new bone formation with injectable and settleable composite bone grafts in a canine mandibular ridge saddle defect model’
17:20–17:30	<i>Selected Abstract: Z. Xia</i> ‘Assessment of osteogenic potential of injectable human mesenchymal stem cells/coralline hydroxyapatite/calcium carbonate microtissues’
17:30–17:40	Q&A

**2<sup>nd</sup> Day May 6th 2014**

<b>Session 2.1</b>	<b>Imaging, tumours, bone augmentation procedures – Chairmen : J. Chiras &amp; K. Murphy</b>
8:15 – 8:35	<i>Keynote Lecture: P. Munk</i> ‘Percutaneous treatment of musculoskeletal metastases - fire, ice and cement’
8:35 – 8:55	<i>Keynote Lecture: T. Le Corroller</i> ‘CPC into the vertebrae: an ex vivo study’
8:55 – 9:15	<i>Keynote Lecture: A. Brook</i> ‘Sacroplasty and augmentation in other weight bearing bones: evolutionary and practical’
9:15 – 9:35	<i>Keynote Lecture: J. Chiras</i> ‘Percutaneous reinforced cimentoplasty for osteolytic lesions involving long bones’
9:35 – 9:45	<i>Selected Abstract: N. Amoretti</i> ‘Percutaneous injection of bone cement (Cementoplasty) for the treatment of symptomatic subchondral cysts’
9:45 – 9:55	Q&A

9:55– 10 :30	Coffee break
--------------	--------------

<b>Session 2.2</b>	<b>Intradiscal &amp; intra-articular injections – Chairmen : O. Gauthier &amp; P. Weiss</b>
10:30–10:55	<i>Keynote Lecture:</i> <b>F. Rannou</b> ‘A new interest of steroid intradiscal injection regarding specific patient phenotypes’
10:55–11:20	<i>Keynote Lecture:</i> <b>S. Becker</b> ‘Injectable intradiscal hydrogels – update’
11:20–11:30	<i>Selected Abstract:</i> <b>O. Hamel</b> ‘FTIR-Attenuated Total Reflectance: a new tool in the assessment of IVD aging and degeneration’
11:30–11:40	Q&A
11:40–12:30	GRIBOI ASSEMBLY

12:30–14:00	Lunch
-------------	-------

<b>Session 2.3</b>	<b>Calcium phosphate materials and Biomineralization (II) – Chairmen : B. Bujoli &amp; C. Combes</b>
14:00–14:20	<i>Keynote Lecture:</i> <b>M.-P. Ginebra</b> ‘Characterization of porosity in injectable bone graft substitute’
14:20–14:40	<i>Keynote Lecture:</i> <b>Z. Li</b> ‘Research, Development and Commercialization Progress of Bioactive Bone Cement in China’
14:40–14:50	<i>Selected Abstract:</i> <b>C. Despas</b> ‘High frequency impedance measurement for the relevant determination of setting times of apatitic Cement’
14:50–15:00	<i>Selected Abstract:</i> <b>D. Pastorino</b> ‘Calcium phosphate foams: Tunable, ready-to-use bone grafts’
15:00–15:10	<i>Selected Abstract:</i> <b>I. Strazic</b> ‘Biological and reconstructive properties of gallium-doped calcium phosphate bone substitutes’
15:10–15:20	<i>Selected Abstract:</i> <b>A. D’Onofrio</b> ‘Development of a novel injectable strontium containing bone substitute’
15:20–15:30	Q&A

15:30–16:00	Coffee break
-------------	--------------

<b>Session 2.4</b>	<b>Skeletal repair and biomaterials platforms (II) – Chairmen: P. Sharrock &amp; P. Janvier</b>
16:00–16:20	<i>Keynote Lecture:</i> <b>J. Chang</b> ‘Design of bioactive injectable biomaterials for bone regeneration’
16:20–16:40	<i>Keynote Lecture:</i> <b>P. Habibovic</b> ‘Regeneration-on-a-chip? Application of novel tools to advance the field of tissue regeneration’
16:40–16:50	<i>Keynote Lecture:</i> <b>H. Pan</b> ‘Surface pH: the essential factor for osteoporotic bone regeneration’
16:50–17:00	<i>Selected Abstract:</i> <b>T. Taguchi</b> ‘Fabrication and characterization of bone cement-reactive poly(vinyl alcohol) membrane for balloon kyphoplasty’
17:00–17:10	Q&A

Session 3.1	Drug delivery systems & Combination devices: scientific and regulatory issues – Chairmen : <b>J.-M. Bouler &amp; F. Tarabah</b>
8:15 – 8:35	<i>Keynote Lecture: F. Tarabah</i> ‘Drug-combined devices, regulatory affairs’
8:35 – 8:55	<i>Keynote Lecture: D Pioletti</i> ‘Spatio-temporal control release based on dissipative properties of hydrogel’
8:55 – 9:15	<i>Keynote Lecture: C. Combes</i> ‘In vitro and in vivo studies on resorbable, injectable and antibacterial cement for bone reconstruction’
9:15 – 9:35	<i>Keynote Lecture: J. Triffitt</i> ‘Bisphosphonates: Major Determinants Of Their Clinical Potencies And Use As Bone Retentive Agents Around Implanted Materials’
9:35 – 9:45	<i>Selected Abstract: T. Miramond</i> ‘association of a novel peptide inhibitor targeting RANK and a crosslinked hydrogel as anti-osteoporotic drug delivery system’
9:45 – 9:55	Q&A

9:55– 10 :15	Coffee break
--------------	--------------

Session 3.2	<b>Bone augmentation procedures in hip and shoulder – Chairmen: Ph. Hernigou &amp; S. Larsson</b>
10:15–10:35	<i>Keynote Lecture: J. Lane</i> ‘Local placement of osteoporotic drugs enhances adjacent bone structure’
10:35–10:55	<i>Keynote Lecture: J.-N. Argenson</i> ‘Femoroplasty using an injectable and resorbable Calcium Phosphate bisphosphonate loaded bone substitute to prevent contra-lateral hip fracture in the elderly: a cadaveric biomechanical study’
10:55–11:15	<i>Keynote Lecture: K. Engelke</i> ‘3D CT imaging to quantify bone augmentation in the hip’
11:15–11:35	<i>Keynote Lecture: Ph. Hernigou</i> ‘Mesenchymal stem cells in orthopedic surgery’
11:35–11:45	<i>Selected Abstract: J.C. Le Huec</i> ‘Impact evaluation of an osteosynthesis device dedicated to prevent hip fracture’
11:45–11:55	<i>Selected Abstract: Ph. Procter</i> ‘Bone Augmentation Solutions Syndicate (BASS): A collaborative development of bone augmentation solutions for proximal humeral and hip fractures’
11:55–12:05	Q&A
12:05–12:30	Final remarks and awards