Preliminary Program

2005 March 19

8:30-9:00 Opening ceremony

9:00-10:15 Injectable biomaterials

Invited lecture

9:00-9:15 Jacques Lemaitre (Switzerland) Resorbable bone substitute based on calcium phosphates: state of the art

Presentation

9:15-9:23 Wang JS. (Sweden) Bone integration of injectable calcium phosphate with calcium sulphate in bone defect

9:23-9:31 Chai F. (China) In vitro studies of the influence of pre-cultural conditioning method on osteoblast reactions of a new type of injectable calcium cement material

9:31-9:39 Legrand A.P. (France) Stability on storage of a dual-paste injectable brushite cements. A ³¹P solid-state RMN study

9:39-9:47 Boschin F. (France) Guided Tissue Regeneration membranes with controlled delivery properties of chlorhexidine by their functionalization with cyclodextrins

9:47-9:55 Dai Honglian (China) Effect Factors on the Properties of Ca-P Composite Bone Cement **9:55-10:03 Lin Wei** (China) Study of Self-hardening Bio-glass and Solidifying Mechanism

10:15-10:30 coffee break

10:30-12:00 Medical implants

Invited lecture

10:30-10:45 Dominique Poitout (France) Allograft with cortical bone and cartilage tissue for repair of large bone defect

10:45-11:00 Ross M. Wilkins (USA) The use of calcium sulfate as a biodegradable carrier and bone replacement material

11:00-11:15 Kaiming Chan: Bone-tendon junction healing (Hong Kong)

Presentation

11:15-11:23 Chen Hong (China) A Generic Route to Biocompatible Silicone Elastomer

11:23-11:31 Leena Ylikontiola (Finland) Clinical application of bioabsorbable PLDLA plates in treatment of mandibular fractures

11:31-11:39 Jarmo Kangas (Finland) Tissue reactions to PLDLA suture in rabbits Achilles tendon

11:39-11:47 Marie-France Guidoin (Canada) 3D scaffolds for orbital floor repair: physico-chemical characterization of Open Cell Polylactic Acid (OPLA[®])

12:00-13:00 lunch break

13:00-15:15 Tissue engineering/ Medical implants

Invited lecture

13:00-13:15 Chou Laisheng (USA) Human bone tissue engineering

13:15-13:30 Mauro Alini (Switzerland) Effect of joint motion on chondrocytes seeded-polyurethane scaffold for cartilage tissue engineering

Presentation

13:30-13:38 Stoop R. (Germany) Evaluation of PLDLA scaffolds for cartilage tissue engineering13:38-13:46 Oudina K. (France) Fibrous tissue engineering in the subcutis of rats using PLDLA scaffold immunohistochemical analysis

13:46-13:54 Zhou Guangdong (China) Related researches of constructing tissue engineered cartilage using adult stem cells and biodegradable polymers

13:54-14:02 Nureddin Ashammakhi (Finland) Fibrous tissue engineering in the subcutis of rats using PLDLA scaffold immunohistochemical analysis

14:02-14:10 Stiegler P. (Austria) Microencapsulation of porcine pancreas cells with sodium cellulose sulfate (NaCS) to create a bioartificial pancreas

14:10-14:18 Wu Chengtie (China) A Novel Bredigite Porous Scaffold for Bone Tissue Engineering: Preparation and In Vitro Characteristics

14:18-14:26 Wang Zhen (China) A New Cust-made Artifical Hemi-Knee Joint By Computer Assisted Design

14:26-14:34 François Kelberine (France) Novel biomaterials for fixation

14:34-14:42 Chu Fengmin (Taiwan) The Study of Apoptosis of Rabbit Synoviocytes Induced by Particulate Joint Replacement Materials

14:42-14:50 Jia Qingwei (China) Bate titanium alloys for total joint prosthesis:fabrication, X-ray diffraction analysis, biomechanics and biocompatibility

14:50-14:58 Petrus Viitanen (Finland) PLGA rods with diclofenac releasing properties

14:58-15:06 Guo Zheng (China) Reconstruction using the Modular Hemipelvic Prostheses Following Excision of Periacetabular Tumors

15:15-15:30 coffee break

15:30-17:35 Gene and cell therapy/Medical implants

Invited lecture

15:30-15:45 James T. Triffitt (UK) Stem cell therapy in the musculoskeletal system

15:45-16:00 Laurent Sedel (France) New ways for the treatment of large bone substance loss

16:00-16:15 Chengkung Cheng (Taiwan) Issues of bone-prosthesis interface

Presentation

16:15-16:23 Tang Tingting (China) Repair of experimental femoral head necrosis in goats with β-TCP / BMP-2 gene transfected stem cells

16:23-16:31 Yixian Qin (USA) Dynamic mechanotrasduction and its role in osteointegration and adaptation

16:31-16:39 Yue Bing (China) BMP2 engineered MSCs/TCP repair bone defects in aged rats

16:39-16:47 Gan Yaokai (China) Clinical observation of enrichment technique of bone marrow stem cell (BMSC) in promoting osseous repair and regeneration: A primary report

16:47-16:55 Penel G. (France) Influence of radiotherapy on membranous bone vascularization as reveals by intra vital study on rabbit.

16:55-17:03 Zhang Wei (China) The experimental studies of cpc/rhBMP-2 compounds implanted in bone os rabbits

17:03-17:11 Meng Sheng (China) Biodegradable and Hemocompatible Phosphorylcholine end-capped Poly-ε-caprolactone

17:11-17:19 Blanchemain N. (France) Vascular prostheses with controlled release of antibiotics: Biocompatibility of PET prostheses grafted with CDs

17:19-17:27 Zhu Sijun (China) Effect of gelation conditions on morphology and performance of polyether sulfone membranes by a dual-bath coagulation method

17:27-17:35 Guo Zheng (China) Reconstruction using the Modular Hemipelvic Prostheses Following Excision of Periacetabular Tumors

17:35-17:43 Xie Y.Z. (Franch) Tissue reactions of bone substitutes: report of 36 cases in orthopaedics

6:00 banquet

2005 March 20

8:30-10:30 Tissue engineering/Hybrid materials

Invited lecture

8:30-8:45 Cao Yilin (China) Bone engineering: large animal studies and clinical application.

8:45-9:00 Michael Andre Rauschman (Germany) Therapeutic use of antibiotic-load calcium-sulfate pellets spinal surgery

Presentation

9:00-9:08 Ding Jiandong (China) Polymeric Scaffolding in Tissue Engineering: Injectable and Preshaping

9:08-9:16 Steffens G.C.M. (Germany) The Development of Matrices with Enhanced Angiogenic Capabilities

9:16-9:24 Yang Guanghui (China) Biological Behaviors of Keratinocytes Cultured on Chitosan-Gelatin Membrane with Different Ratio

9:24-9:32 Gaissmaier C. (Germany) Increased proliferation and matrix synthesis but dedifferentiation of human articular chondrocytes in monolayer (2D) and three-dimensional (3D) alginate cultures in the presence of human platelet supernatant

9:32-9:40 Yao Ch. (Germany) Enhancing angiogenesis in collagen matrices: an evaluation with the chorioallantois membrane assay

9:40-9:48 Damien E (UK) In vivo characterisation of a novel composite hydrogel made with calcium phosphate particles on a hydrophilic matrix of poly-vinyl alcohol for vertebral arthroplasty

9:48-9:56 Xie Y.Z. (Franch) Using Perfusion Culture System for Stem Cell Proliferation inside Ceramic Scaffold

9:56-10:04 Patrick Sharrock (France) Artificial bone material

10:04-10:12 Wu Chengtie (China) A Novel Bredigite Porous Scaffold for Bone Tissue Engineering: Preparation and In Vitro Characteristics

10:30-10:45 coffee break

10:45-12:00 Hybrid materials

Invited lecture

10:45-11:00 Martel B. (France) Biomaterials with a tailored controlled drug-delivery functional based on the "host-gust" complex forming properties of cyclodextrins

11:00-11:15 Dai Kerong (China) Ti based materials and osseointegration

Presentation

11:15-11:23 Li Xiaosheng (China) The Artificial Eye-Eats of Hydyroxyapatite and Bioactive MicroCrystalline Glass

11:23-11:31 Dabernig W. (Austria) Composite scaffold of bioactive glass and polymers for bone tissue engineering

11:31-11:39 Poulier C. (France) Functionalisation of hydroxyapatite surfaces by organic molecules grafting

11:39-11:47 Xu Sen (China) Optimization of preparation of DHAQ- loaded PELGE -NP using CCD

12:00-13:00 lunch break

13:00-15:15 Nanotechnology in biomaterials/Hybrid materials

Invited lecture

13:00-13:15 Li Panjian (USA) Biomimetic hybrid coating composed of osteocalcin and nano-crystalline apatite.

13:15-13:30 Lin Jiaping (China) Drug Delivery System Based on Micelles Formed by Polypeptide Copolymers

Presentation

13:30-13:38 Wang John (Singapore) Bioactive Mesoporous Structures and Thin Films by Copolymer Templating

13:38-13:46 Bohner M. (France) Nanostructured apatitic bone substitutes and their protein adsorption

13:46-13:54 Chen Xiaofeng (China) The Synthesis of Nanosize Bioglass in The System CaO-P2O5-SiO2 and Preparation of Bone Tissue Engineering Scaffolds

13:54-14:02 Wang Yi (China) Repairing of Bone Defects in the Tibia of Rats in vivo with Novel Mesoporous Bioactive Glasses

14:02-14:10 Zhang Yong (Singapore) Bi-functional chitosan nanoparticles for bio-applications

14:10-14:18 Mo Xiaomei (China) Investigation of biodegradable nanofibers in tubular scaffolds for tissue regeneration

14:18-14:26 Ren Jie (China) Preparation and characterization of fenofibrate-loaded PLA-PEG microspheres

14:26-14:34 Zhang Z.G. (China) The Synthesis and Antibacterial activity of nano MgO

14:34-14:42 Von Walter (Germany) Porous TiO₂/Glass/Collagen hybrids: use of heparinized collagen as a reservoir for the osteoinductive factor BMP-2

14:42-14:50 Ren Jie (China) In situ polymerization and properties of poly D,L-lactide/nano-hydroxyapatite composites

15:15-15:30 coffee break

15:30-17:30 Bioceramics/ Others

Invited lecture

15:30-15:45 Chang Jiang (China) Development of Ca-Si based bioactive ceramics for bone repair. **15:45-16:00** Paul. R. Kim (Canada) metal on metal technology for resurfacing hip arthroplasty

Presentation

16:00-16:08 Patrick Frayssinet (France) New biomedical applications for hydroxyapatite ceramics 16:08-16:16 Hornez J.C. (France) Synthesis and properties of porous phosphocalcic bioceramics 16:16-16:24 Liu Xuanyong (China) Improvement in bioactivity of single crystalline silicon wafer 16:24-16:32 Oudadesse H. (France) PIXE, NAA and biological studies of the in vivo behaviour of a synthetic aragonite biomaterial

16:32-16:40 Ni siyu (China) Preparation and characterization of Forsterite (Mg2SiO4) bioceramics
16:40-16:48 Lü Xiao-ying (China) Study of metal ion cytotoxic mechanism based on gene expression microarray technology

16:48-16:56 Amédée J. (France) RGD-CONTAINING PEPTIDES MAY ACTIVATE OSTEOPROGENITOR CELLS AND BONE REGENERATION IN ADDITION TO PROMOTE COOPERATION WITH VASCULAR CELLS

16:56-17:04 Gamal Baroud (Canada) Laboratory measurements of vertebral hydrostatic pressure in a simulated vertebroplasty

17:04-17:12 Yves DeBacker (France) Caractérisation physico-chimique d'un nouveau biomateriau pour la fixation arthroscopique

17:12-17:20 Yap Fung-Ling (Singapore) Micropatterning of proteins via self-assembly of polystyrene microspheres

17:20-17:28 Yohena S. (Japan) Fluorinated diamond-like carbon films for blood-contacting medical devices

6:00 dinner