

Program for the 18th Annual Meeting of the NBTE 2009

Monday 14 December 2009

09:00 – 10:00	Registration and coffee
10:00 – 10:15	Welcome by Prof. J. Klein Nulend, Chair of the NBTE Presentation of the Pauline van Wachem award 2009 and Student Abstract competition prizes.

10:15 – 11:15	Oral Presentations Chair: N. Fedorovich
01	Y.C. Chai – K.U. Leuven <i>Controllable and Reproducible Calcium Phosphate Deposition on Rapid Prototyped Titanium Scaffolds by Perfusion Electrodeposition</i>
02	B.K.H.L. Boekema – Association of Dutch Burn Centres <i>Cross-linking of dermal substitutes worsens wound healing</i>
03	G.A. Higuera – UT / Tissue Regeneration <i>Contact Inhibition of Stem Cells Differs in 2D and 3D</i>
04	W. Schuurman – UMCU / Orthopaedics <i>3D-Fiber Deposition Of Cell-Laden Hydrogels as A Model For Constructing Osteochondral Grafts</i>

11.15-11:45	<i>Coffee break</i>
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11:45 – 12:45	Oral Presentations Chair: M. Caron
05	E. Farré-Guasch – VUmc / Oral Cell Biology <i>Buccal Fat Pad as an Oral Access-Source of human Adipose Stem Cells with Potential for Osteochondral Tissue Engineering - an In Vitro Study</i>
06	J.E.J. Bekkers – UMCU / Orthopaedic surgery <i>Co-culturing of Human Bone Marrow Mononuclear Cells and Primary Chondrocytes to Improve Cartilage Formation</i>
07	L.J. van der Aa – UT / Polymer Chemistry and Biomaterials <i>Disulfide Based Poly(amido amine) Copolymers for siRNA Delivery</i>
08	E. Wisse – DSM <i>A new generation of easily crosslinkable polyethylene copolymers</i>

12:45 - 13.45	<i>Lunch</i>
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13:45 – 15:00	Oral Presentations Chair: G. Lammers
09	G. Wu – ACTA VUmc / Oral Implantology and Prosthodontics <i>Bone formation in association with BMP-2-functionalized scaffolds: Inflammation and osteoinductive efficacy are influenced by the mode of drug delivery</i>

10	H-J. Prins – UMCU / Immunology <i>Identification of Clones with a Variable Proliferation and Differentiation Profile Illustrates the Heterogeneity of Mesenchymal Stromal Cell Cultures</i>
11	J. Demol – K.U. Leuven / Biomechanics and Engineering Design <i>Oxygen Tension Correlates with Cell Viability and Proliferation in Fibrin Hydrogels: a computational and experimental study</i>
12	L. Mespouille - University of Mons / Polymeric and Composite Materials <i>Synthetic strategies for producing biodegradable amphiphilic polymer conetworks</i>
13	A. Tabassum – UMCN / Periodontology and Biomaterials <i>The influence of implant surface roughness on osteogenic potential of bone particles resulting from placement of titanium screw-type implants.</i>

15:00 – 16:30	<i>Poster presentation and drinks</i>
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16:30 – 17:30	Oral Presentations Chair: J. demol
14	S.J. Buwalda – UT / Polymer Chemistry and Biomaterials <i>The influence of amide versus ester linkages on the properties of 8-armed PEG-PLA star block copolymer hydrogels</i>
15	F. Wegman – UMCU / Orthopaedics <i>The in vivo performance of BMP-2 plasmid DNA-based bone constructs</i>
16	J.Ma – UMCN / Periodotolgy and Biomaterials <i>Coculture of Human Mesenchymal Stem Cells with Human Umbilical Endothelial Cells</i>
17	E.L.W. de Mulder – UMCN / Orthopaedics <i>Activation of Polyurethane Scaffolds by Surface Treatment with Diamines and Heparin</i>

17:30 – 18:00	Prof. Coebergh, Chair of the Federa. <i>Introducing the role of the Federation of Medical Sciences Societies</i>
18:00	<i>NBTE Members Annual Meeting</i>
19:00	<i>Dinner</i>

	Keynote Lectures
20:00 – 20:45	Dr. N.A.J.M. Sommerdijk - TUE / Chemical Engineering and Chemistry <i>Pre-nucleation Clusters in Biomimetic Mineralization: News or Old News?</i>
20:45 – 21:30	Prof. S.J. Bergé - UMCN / Oral and Cranio-Maxillofacial Surgery <i>Innovative 3D imaging in oral and maxillofacial surgery</i>

Tuesday 15 December 2009

09:00 – 10:30	Oral Presentations Chair: R. Felix Lanao
18	C. de Saint Aulaire – EUR / Otorhinolaryngology and Head & Neck Surgery <i>Heterotopic fibroblasts and their potential use in tissue engineered mucosa</i>
19	Y. Chen – K.U. Leuven / Metallurgy and Materials Engineering <i>Optimisation of Cell Seeding by Design of Experiment for Skeletal Tissue Engineering Applications</i>
20	B. Zandieh Doulabi – VUmc / Orthopaedic Surgery <i>Adult mesenchymal stem cells have the ability to remodel collagen based extracellular matrices</i>
21	G. Lammers – UMCN / Biochemistry <i>Gene Expression Microarrays as a Novel Read-Out Tool in Tissue-Engineering</i>
22	F. Verseijden – EUR / Plastic and Reconstructive Surgery <i>Adult human bone marrow- and adipose tissue-derived stromal cells support the formation of primitive vascular-like structures from endothelial cells in vitro</i>
23	J.C.H. Leijten – UT/ Tissue Regeneration <i>Comparing articular and growth plate cartilage gene expression profiles enables hyaline cartilage type determination</i>

10:30 – 11:00	<i>Coffee break</i>
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11:00 – 12:15	Oral Presentations Chair: J.C.H. Leijten
24	S.H. Seyednejad – UU / Pharmaceutics <i>Synthesis and Characterization of a Novel Hydrophilic Polyester for Tissue Engineering</i>
25	Y. Zheng – ACTA VUmc / Oral Implantology and Prosthodontics <i>RhBMP2/7 Heterodimer: an Osteoblastogenesis-inducer with a Lower-effective-dose-concentration in comparison to RhBMP2 and RhBMP7 Homodimers</i>
26	M. Piest - UT / BioMedical Chemistry <i>Effects of Charge Density and Hydrophobicity in Cationic Polymers for Gene Delivery</i>
27	M. Koens – UMCN / Biochemistry <i>Tubular composite bioscaffolds for tissue engineering applications</i>
28	M.M.J. Caron – MUMC / Orthopaedic Surgery <i>Chondrogenesis of mesenchymal progenitors is determined by NF-κB activation and early inflammatory responses</i>

12:15 – 13:15	<i>Lunch</i>
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13:15 – 14:30	Oral Presentations Chair: M. Piest
29	S. Schüller-Ravoo – UT / Polymer Chemistry and Biomaterials <i>(Soft) Tissue Engineering: 3D-Structures built by Stereolithography</i>
30	N.A. Hosper – UMCG / Pathology and Medical Biology <i>Intra-uterine tissue engineering of full thickness skin defects in a fetal sheep model</i>

31	P.J. Geutjes – UMCN / Urology <i>Postnatal Repair of Bladder Exstrophy with a Growth Factor Enriched Collagen-heparin Biomatrix</i>
32	J.R. Overman – ACTA VUmc / Oral Cell Biology <i>Osteogenic Differentiation of BMP-2-induced Human Adipose Stem Cells Seeded on Biphasic Calcium Phosphate and β-Tricalcium Phosphate Carriers</i>
33	A. Kunstar – UT / Tissue Regeneration <i>Raman Monitoring of Chondrocyte Dedifferentiation and Differentiation</i>

14:30 – 14:45	<i>Coffee break</i>
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14:45 – 15:45	Oral Presentations Chair: J. Overman
34	C.P.L. Paul – VUmc / Orthopaedic Surgery <i>Characterization of Goat Disc Response to Loading in a Novel Loaded Disc Culture System; a Future Platform for Studies on Regenerative Therapies for Degenerated Intervertebral Discs?</i>
35	Nicole Papen-Botterhuis – TNO Science and Industry <i>Temperature-induced Hydrogels as a Scaffold for Nucleus Pulposus Replacement</i>
36	L. Moreira-Teixeira – UT / Tissue Regeneration <i>In Vitro Biological Evaluation of Rapidly In-Situ Forming Dextran-Tyramine Hydrogels for Cartilage Tissue Regeneration</i>
37	G. Kerckhofs – K.U. Leuven / Metallurgy and Materials Engineering <i>Assessment of the accuracy and the scaffold material dependent constraints of micro-CT imaging to quantify bone formation in explanted tissue engineering scaffolds</i>

	Presentation of the poster and presentation awards
	<i>Closure of the meeting</i>