



**NBTTE**  
**Netherlands society for**  
**Biomaterials and Tissue Engineering**

Program 29th Annual Meeting, 26 & 27 November 2020

at

ONLINE

Thursday, 26 November

12.30	<b>Opening</b>
12.35 – 13.15	<b>Opening Keynote Lecture:</b> <b>Organ on Chips as Models of Human Physiology with Focus on Neurovascular Models</b> <i>Prof. Dr. Anna Herland (KTH Royal Institute of Technology Sweden)</i>

13.15 – 13.30	<b>Coffee break</b>
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13.30 – 13.35	<b>Optics11 pitch</b>
13.35 – 14.35 (10+2 min)	<b>Oral Presentations</b>
01	<b>High-throughput screening to elucidate biomaterial-induced fibrosis</b> <u>T van der Boon</u> , W.J. Kolff Institute, University of Groningen
02	<b>Steering keratocyte phenotype and collagen production using micro-patterned cell culture substrates</b> <u>C van der Putten</u> , Department of Biomedical Engineering, Eindhoven University of Technology
03	<b>Testing Bone Adhesive Barrier Membranes Based on Alendronate and N-hydroxysuccinimide-functionalized Poly(2-oxazoline)s for Guided Bone Regeneration on a New Ex Vivo Perfusion-Based Mandibular Model</b> <u>M van Erk</u> , Department of Surgery, Radboud University Medical Centre
04	<b>Directing lineage commitment in kidney organoids using supramolecular materials</b> <u>J van Sprang</u> , Department of Biomedical Engineering, Eindhoven University of Technology
05	<b>Cardiac fibroblast mechanoreponse guides anisotropic organization of hiPSC-derived cardiomyocytes</b> <u>D Mostert</u> , Department of Biomedical Engineering, Eindhoven University of Technology

<b>14.35 – 15.00</b>	<b><i>Coffee break and break-out room Optics11</i></b>
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<b>15.00 – 16.00 (10+2 min)</b>	<b>Oral Presentations</b>
06	<b>Influence of microcapsule parameters and initiator concentration on the self-healing capacity of resin-based dental composites</b> <u>K Ning</u> , Department of Dentistry, Radboud University Medical Center
07	<b>Human Platelet Lysate Defeats Fetal Bovine Serum for Human Osteoclast Formation and Resorption</b> <u>B de Wildt</u> , Department of Biomedical Engineering, Eindhoven University of Technology
08	<b>Copper-Containing Mesoporous Bioactive Glass nanoparticles for Therapeutic Application in Bone Regeneration</b> <u>N Besheli</u> , Department of Dentistry, Radboud University Medical Center
09	<b>Cartilage Tissue Engineering using Bioinspired Growth Factor Immobilization on Microfiber Scaffolds</b> <u>MJ Ainsworth</u> , Department of Orthopedics, University Medical Center Utrecht
10	<b>Bone-Adhesive Barrier Membranes Based on Alendronate-Functionalized Poly(2-oxazoline)s</b> <u>MJ Sánchez-Fernández</u> , Department of Dentistry-Regenerative Biomaterials, Radboud University Medical Center

<b>16.00 – 16.30</b>	<b><i>Coffee break and break-out room Optics11</i></b>
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<b>16.30 – 16.40</b>	<b><i>Scientific Photo Competition award</i></b>
<b>16.40 – 17.30</b>	<b><i>General Assembly</i></b>

## **NBTE Focus session**

<b>19.30 – 21.00</b>	<b>Battle of the Matrix: natural or synthetic matrices</b>  <i>Prof. Dr. Janette Burgess</i> <i>University Medical Center Groningen</i>  <i>Dr. Matthew Baker</i> <i>Maastricht University</i>  Plenary Discussion
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**Friday, 27 November**

<b>09.00 – 9.45</b>	<b><i>Belgian Society for Tissue Engineering Keynote: From brewing beer to building bone Prof. Dr. Liesbet Geris (KU Leuven)</i></b>
<b>9.45 – 10.15</b>	<b><i>Coffee break and break-out room Optics11</i></b>
<b>10.15 – 11.15 (10+2 min)</b>	<b>Oral Presentations</b>
11	<b>Hydrogel-based bioinks for cell electrowriting of well-organized living structures with micrometer-scale resolution</b> <u>P.N. Bernal</u> , Department of Orthopedics, University Medical Center Utrecht
12	<b>Zonal-cell density 3D bioprinting for biomimetic cartilage tissue engineering</b> <u>PJ Díaz-Payno</u> , Department of Biomechanical Engineering, Delft University of Technology
13	<b>Melt Electrowriting of a Meniscus Scaffold seeded with MSCs and Meniscus Cells</b> <u>JV Korpershoek</u> , Department of Orthopaedics, Regenerative Medicine, University of Utrecht
14	<b>Bioengineering Clinically-Sized Microporous Annealed Scaffolds via In-Air Production of Dual-Crosslinking Microgels</b> <u>M Schot</u> , Department of Developmental BioEngineering, University of Twente
15	<b>Silk-based Materials to Create High Resolution Three-dimensional Structures Using Electrohydrodynamic Printing</b> <u>M. Viola</u> , Department of Orthopedics, University Medical Center Utrecht
<b>11.15 – 11.30</b>	<b><i>Coffee break and break-out room Optics11</i></b>
<b>11.30 – 12.30 (10+2 min)</b>	<b>Oral Presentations</b>
16	<b>Patterning Self-Organizing Microvascular Networks within Engineered Matrices</b> <u>D. Rana</u> , Department of Biomedical Engineering, University of Twente
17	<b>A new non-invasive technique for measuring the 3D-oxygen gradient in wells during mammalian cell culture</b> <u>CJ Peniche Silva</u> , MERLN Institute for Technology-Inspired Regenerative Medicine, Maastricht University
18	<b>Generation of Immunoprotective and Enzymatically Crosslinked Polyethylene Glycol-Tyramine Microcapsules for Beta-cell Delivery using Microfluidics</b> <u>N Araújo-Gomes</u> , Department of Developmental BioEngineering, University of Twente
19	<b>Assessment of the Neutrophil Response to a Panel of Synthetic and Natural derived Biomaterials; a Novel Comprehensive in vitro Approach</b> <u>M Wesdorp</u> , Erasmus MC, University Medical Center Rotterdam
20	<b>Synovial membrane on chip: studying immune response over inflammation in a multi-cellular system</b> <u>CA Paggi</u> , Department of Developmental BioEngineering, University of Twente
<b>12.30</b>	<b><i>Closure of the meeting</i></b>