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Program Book

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P3-073 Modified Bioprinting Process for Efficient Cellular Alignment and Myotube Formation
Gaeun Heo, Sungkyunkwan University School of Medicine, Korea, Republic of

P3-074 Bespoke Bioprinting of Stem Cell-derived Islets and Vascular Network within the Engineered Pancreatic Niche for Studying Diabetic Diseases
Myungji Kim, POSTECH, Korea, Republic of

P3-075 Enhancing the stress durability of 3D bioprinted tissues using sequential crosslinking of bioinks
Minji Kim, Pohang University of Science and Technology (POSTECH), Korea, Republic of

P3-076 3D Bioprinted Vascularized Tubular Bile Duct Conduits
Seon-Jin Kim, School of interdisciplinary bioscience and bioengineering, Pohang University of Science and Technology, Korea, Republic of

P3-077 Development of the hydrogel fiber covered with 3D cell aggregates using 3D bioprinting system assisted with cell-coating technique
SooJung Chae, Department of Precision Medicine, Sungkyunkwan University, Korea, Republic of

P3-078 3D bioprinting of an in vitro blood vessel model with geometrical diversity for cancer metastasis study
Wonbin Park, Pohang University of Science and Technology, Korea, Republic of

P3-079 Colloidal gels for 3D printing application
Rong Wang, Radboudumc, Netherlands

P3-080 Gellan gum-based granular gels as suspension media for biofabrication
Ferry Melchels, University of South Australia, Australia

P3-081 Drug-Coated Microneedle Balloons for Enhanced Delivery of Anti-Proliferative Agents to Vascular Tissue
Mei-Chin Chen, National Cheng Kung University, Chinese Taipei

P3-082 Nano-fiber reinforced hydrogels for 3D bioprinting of anisotropic tissue
Elena Marcello, Politecnico di Torino, Italy

P3-083 Advancing 3D Bioprinting: Development of a Water-Soluble, Photo-cross-linkable Collagen Bioink for Enhanced Tissue Engineering
Wei-Bor Tsai, National Taiwan University, Chinese Taipei

P3-084 A defined methacryloyl modification gelatin hydrogel, the story of gelatin and formulation factors influencing the hydrogel properties
Jos Olijve, Rousselot B.V., Netherlands

P3-085 Investigation of bioink preparation containing decellularized tissue powder for construction of cancer microenvironment
Mako Kobayashi, Department of Materials Processing, Graduate School of Engineering, Tohoku University, Japan

P3-086 Peptide-Dendrimer-Reinforced Bioinks for 3D Bioprinting
Hongli Mao, Nanjing Tech University, China

P3-087 Xeno-free and photocurable nanocellulose-based macroporous-gel bioprinting in service of 3D cell culture
Xiaoju Wang, Laboratory of Natural Materials Technology, Faculty of Science and Engineering, Åbo Akademi University, Henrikinkatu 2, Turku, 20500, Finland, Finland

P3-088 Revolutionizing In Vivo Screening: A High-Throughput 3D-Printed Platform for Investigating Bioink Materials and Cell Formulations
Fan Zhang, University of Washington, USA

P3-089 Enhancing 3D bioprinting capabilities of hyaluronic acid hydrogels leveraging dynamic and non-dynamic crosslinking
Shima Tavakoli, Uppsala University, Sweden

P3-090 Towards a bionic lobule-like liver tissue
Paula de Dios Andres, Aarhus University, Denmark

P3-091 Optimization of Alginate and Gelatine bioink composition for 3D proliferation, 3D differentiation of myoblast and bioprinting
Thirumaran Thanabalu, Nanyang Technological University, Singapore

P3-092 Methacrylated hyaluronic acid and periosteum-derived cell spheroid bioink towards subchondral bone tissue engineering through the endochondral ossification pathway
Ane Albillos, MERLN Institute for Technology-Inspired Regenerative Medicine, Maastricht University, Complex Tissue Regeneration Department, 6229 ER, Maastricht, The Netherlands, Netherlands

P3-093 Embedded 3D bioprinting of collagen inks into microgel baths to control hydrogel microstructure and cell phenotype
Lucia Brunel, Stanford University, USA

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P3-094 Microfluidic bioprinting of hiPSC-derived progenitors to produce renal organoids
Gabriele Addario, MERLN - Maastricht University, Netherlands

P3-095 Optimizing extrusion bioprinting with decellularized ECM bioinks: a comprehensive rheological approach for bridging material properties to extrusion dynamics and thixotropy
Soham Ghosh, Indian Institute of Technology Hyderabad, India

P3-096 Precision Biofabrication for Meniscal Tissue Engineering: Leveraging MEW and Microvalve Bioprinting to enable tunable Mechanical and Cellular Gradients.
Fraser Shields, Division of Cell Matrix Biology & Regenerative Medicine, University of Manchester, United Kingdom

P3-097 Development of a one-step process for pure collagen scaffold bioprinting
Sara Palladino, Laboratory for Biomaterials and Bioengineering, (CRC-Tier I), Dept Min-Met-Materials Eng and Regenerative Medicine, CHU de Quebec, Laval University, Quebec City, Canada, Canada

P3-098 Tunable GelMA Hydrogel of room-temperature Extrusion Bioprinting of C_2C_{12} cellular scaffolds
Zaimao Peng, Monash University, Australia

P3-099 Development of photo-click alginate hydrogels for tissue engineering and biofabrication
Matthew Mail, The University of Melbourne, Australia

P3-100 Flexink - a new PEG-tyramine-based material for coaxial printing of small-diameter vessels
Julia Siminska-Stanny, Universite Libre de Bruxelles, Belgium

P3-101 Biofabrication and Biophysical Characterization of Printed S. Typhimurium Biofilms
Annie Scutte, FAMU-FSU College of Engineering, USA

P3-102 Unveiling the relation between mechanical properties, cytocompatibility, and printability of decellularized extracellular matrix bioinks
Linglu Hong, Division of Biomedical Engineering, Department of Materials Science and Engineering, Uppsala University, Uppsala, Sweden., Sweden

P3-103 Encouraging vascular network formation in a 3D printed nipple-areola complex for post-mastectomy nipple reconstruction
Amal Shabazz, Fischell Department of Bioengineering, and University of Maryland, College Park, Maryland, USA, USA

P3-104 A volumetric approach to mimic the osteoid niche
Edward Vermeersch, Ghent University, Belgium

P3-105 Visible Light-Based 4D-Bioprinted Tissue Scaffold
Sriram Bharath Gugulothu, Indian Institute of science, India

P3-106 A novel bioink to create vascularized structures harnessing microfluidic bioprinting
Efsun Senturk, 3D Microfluidic Bioprinting Lab, Center for Life Nano- & Neuro-Science (CLN2S), Italian Institute of Technology (IIT), 00161 Rome, Italy, Italy

P3-107 Development of Alginate-Based Bioinks to Model Prostate Cancer in vitro
khalsa alhusaini, Division of Pharmacy and Optometry, Medicine and Health, University of Manchester, Manchester, UK, United Kingdom

P3-108 3D-bioprinted liver tissue model for testing the activity and cytotoxicity of drugs - revolution in preclinical testing of oncological drugs
Marta Klak, Polbionica sp. z o.o., Poland

P3-109 Effect of crosslinking agents in bioinks on corneal cell viability
Li Jiang, Tianjin Eye Hospital, Tianjin Key Lab of Ophthalmology and Visual Science, Nankai University Affiliated Eye Hospital, China

P3-110 Engineering Biointeractive Biomaterials and Therapeutics Technologies for Biomedical Applications
Sohyung Lee, Harvard University, USA

P3-111 RGD and Hep II domains on the surface of MSCs-derived extracellular vesicles for the differentiation of hiPSCs into MSCs
Jiseong Kim, Dongguk University, Korea, Republic of

P3-112 Engineered chemothermal magnetic nanoparticles: Drug release and kinetics models from thermoresponsive polymeric gates coated SPIONs for cancer therapy
Abdelrahman I. Rezk, Department of Physiology, Jeonbuk National University Medical School, Jeonju-si 54907, Republic of Korea., Korea, Republic of

P3-113 Engineered Nanovesicles for Theranostics in Atherosclerosis
Jeong-Kee Yoon, Chung-Ang University, Korea, Republic of