

PROGRAMME

5 – 7 May 2021 · Online Event

3D Cell Culture 2021
Models, Applications & Translation

<https://dechema.de/3DCC2021>

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EXHIBITORS



LECTURE PROGRAMME

Wednesday, 5 May 2021

10:00 **Opening and Technical Remarks****Synthetic Biology, Screening Platforms and Metabolomics***Chair: H. Hauser, Helmholtz Centre for Infection Research, Braunschweig/D*10:10 **KEYNOTE LECTURE 1**
Toward a world of ElectroGenetics
M. Fussenegger¹; ¹ ETH Zurich/CH10:40 **Advanced in vitro management of three-dimensional cell cultures and explanted tissue**
S. Kreß¹; D. Egger¹; C. Kasper¹; ¹ University of Natural Resources and Life Sciences, Vienna/A10:55 **Label-free measurements of the metabolic activity within 3D cell culture model via automated 3D microphysiometry**
S. Eggert¹; M. Gutbrod²; G. Liebsch²; R. Meier²; D. Hutmacher³; P. Mela¹; ¹ Technical University of Munich, Garching/D; ² PreSens Precision Sensing GmbH, Regensburg/D; ³ Queensland University of Technology, Brisbane/AUS11:10 **Hypoxia or normoxia: mesenchymal stem cells and chondrocytes with a genetically integrated hypoxia sensor in different 3D cell culture systems (P2.2.04)**
C. Schmitz¹; T. Fleischhammer¹; I. Pepelanova¹; E. Potekhina²; V. Belousov³; T. Scheper¹; A. Lavrentieva¹; ¹ Leibniz University Hannover/D; ² Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Moscow/RUS; ³ Federal Center of Brain Research and Neurotechnologies, Federal Medical Biological Agency, Moscow/RUS11:15 **EU-OPENSREEN: A novel collaborative model for accelerating early phase drug discovery**
A. Silvestri¹; O. Genilloud²; P. Gribbon³; J. Kolanowski⁴; Z. Leśnikowski⁵; C. Steinhauer⁶; M. Vicent⁷; W. Fecke¹; ¹ EU-OPENSREEN ERIC, Berlin/D; ² Fundación Medina, Granada/E; ³ Fraunhofer Institute for Molecular Biology and Applied Ecology, Hamburg/D; ⁴ Polish Academy of Sciences, Poznan/PL; ⁵ Polish Academy of Sciences, Lodz/PL; ⁶ Copenhagen University/DK; ⁷ Principe Felipe Research Center, Valencia/E

11:30 Discussion with all speakers of this session

11:45 **Lunch Break**

LECTURE PROGRAMME

Wednesday, 5 May 2021

Advanced 3D Models for Tumor Research*Chair: J.M. Kelm, PreComb Therapeutics AG, Wädenswil/CH*13:30 **KEYNOTE LECTURE 2**
Organotypic 3D models to characterize the molecular requirements of immune cell infiltration and activation
W. Sommergruber¹; A. Osswald²; I. Voelkl³; V. Hedrich³; A. Rudisch³; N. Harrer³; M. Dong⁴; H. van der Kuip⁴; A. Wernitznig³; A. Bernthaler³; J. Lipp³; S. Rebelo⁵; C. Pinto³; C. Brito⁵; S. Hall⁶; ¹ University of Applied Sciences, Vienna/A; ² Boehringer Ingelheim Pharma GmbH & Co. KG, Biberach/D; ³ Boehringer Ingelheim RCV GmbH & Co KG, Vienna/A; ⁴ University of Tuebingen/D; ⁵ iBET, Universidade Nova de Lisboa/P; ⁶ University Hospital Bern/CH14:00 **Development of a 4D-in vitro-test system for specificity and potency of 3rd generation chimeric antigen receptor-T-cells (CAR-T-cells) based on microcavity array-bioreactors**
E. Gottwald¹; L. Werner¹; C. Nies¹; S. Wang²; M. Schmitt²; ¹ Karlsruhe Institute of Technology (KIT), Eggenstein-Leopoldshafen/D; ² University Hospital Heidelberg/D14:15 **3D modelling of the chronic lymphocytic leukaemia microenvironment**
F. Sbrana¹; R. Pinos¹; D. Ribezzi¹; F. Scagnoli¹; F. Barbaglio¹; D. Belloni¹; L. Scarfò¹; C. Scielzo¹; ¹ IRCCS, Ospedale San Raffaele, Milan/I14:30 **Targeting the fibrotic tumor microenvironment: Novel 3D co-culture organoids for pancreatic adenocarcinoma (PDAC) drug discovery**
J. Hänsel¹; K. Peter¹; T. Kurz²; R. Mrsny³; N. Teusch¹; ¹ Universität Osnabrück/D; ² Heinrich-Heine-Universität Düsseldorf/D; ³ University of Bath/UK14:45 **Generation of multicellular spheroid culture models of pediatric vital tumor samples obtained through the INFORM registry study for functional studies (P3.3.01)**
H. Peterziel¹; A. Mangang¹; P. Fiesel²; S. Oppermann¹; L. Turunen⁴; J. Saarela³; O. Witt⁴; I. Oehme¹; ¹ Hopp Children's Cancer Center Heidelberg (KITZ), German Cancer Research Center (DKFZ) and German Cancer Consortium (DKTK) Heidelberg/D; ² German Cancer Research Center (DKFZ) and German Consortium for Translational Cancer Research (DKTK) Heidelberg/D; ³ University of Helsinki, Finland (FIMM-UH), Helsinki/FIN; ⁴ Hopp Children's Cancer Center Heidelberg (KITZ), German Cancer Research Center (DKFZ), German Cancer Consortium (DKTK) and Heidelberg University Hospital/D

14:50 Discussion with all speakers of this session

15:05 **POSTER SESSION 1 / EXHIBITION**16:45 **End of Day 1**17:00 **Section Member Assembly of DECHEMA Working Groups „Cell Culture Technology“ and „Medical Biotechnology“ (for section members only) (17:00-18:00)**

LECTURE PROGRAMME

Thursday, 6 May 2021

Complex and Multi-Celltype Models

Chair: C. Kasper, University of Natural Resources and Life Sciences, Vienna/A

09:00 **Image based quantification of myeloid cell repolarization and their interplay within the tumor microenvironment in 3D**
*G. Govere*¹; N. Beztinna¹; B. Visser¹; M. van de Merbel¹; E. Spanjaard¹; K. Yan¹; L. Price¹; L. Daszkiewicz¹; ¹ Ocello B.V., Leiden/NL

09:15 **Application of ultrasmall gold nanoparticles (2 nm) in a 3D blood-brain-barrier *in vitro* model**
*V. Sokolova*¹; G. Mekky²; S. van der Meer¹; M. Seeds³; A. Atala³; M. Epple¹; ¹ University of Duisburg-Essen, Essen/D; ² Zagazig University/ET; ³ Wake Forest School of Medicine, Winston-Salem, NC/USA

09:30 **Manufacturing of functional beta cell-mesenchymal stem cell-spheroids for transplantation or drug testing**
*F. Petry*¹; P. Czermak^{1,2}; D. Salzig¹; ¹ University of Applied Sciences Mittelhessen, Giessen/D; ² University of Giessen/D

09:45 **Assembly of multi-spheroid cellular architectures by programmable droplet merging**
*H. Cui*¹; A. Popova¹; P. Levkin¹; ¹ Karlsruhe Institute of Technology (KIT), Eggenstein-Leopoldshafen/D

10:00 **Development of a new human organotypic 3D urinary bladder epithelium model in complex whole blood co-culture with immune cells (P1.2.01)**
*M. Willig*¹; R. Kehlbach¹; G. Stein¹; *M. Schmolz*¹; ¹ HOT Screen GmbH, Reutlingen/D

10:05 Discussion with all speakers of this session

10:20 Coffee Break

Innovative Microphysiological Systems I

Chair: U. Marx, TissUse GmbH, Berlin/D

11:00 **KEYNOTE LECTURE 3**
Application of microphysiological systems to drug safety assessment: progress and challenges
*R. David*¹; ¹ AstraZeneca, Cambridge/UK

11:30 **OncoChip - A novel microfluidic platform for compound efficacy testing on human 3D microtumors**
*M. Pawlak*¹; S. Yüz²; B. Gierke¹; J. Hofmann³; U. Härle²; S. Werner²; B. Hagemeyer²; Z. von Guttenberg³; *M. Stelzle*²; C. Schmees²; ¹ NMI TT Pharmservices, Reutlingen/D; ² NMI Natural and Medical Sciences Institute at the University of Tübingen, Reutlingen/D; ³ ibidi GmbH, Gräfelfing/D

11:45 **Applying a microphysiological 3D human liver – islet microtissue platform to study drug – drug interaction (P2.1.02)**
*L. Hoelting*¹; I. Karakoc¹; B. Yesildag¹; W. Moritz¹; O. Frey¹; ¹ InSphero AG, Schlieren/CH

LECTURE PROGRAMME

Thursday, 6 May 2021

11:50 **Evaluating drug-induced liver toxicity of acetaminophen, trovafloxacin and levofloxacin in a triple-cell microphysiological liver sinusoidal model (P1.1.07)**
*T. Kaden*¹; R. Li²; A. Mosig³; K. Graf¹; M. Raasch¹; K. Rennert¹; ¹ Dynamic42 GmbH, Jena/D; ² Biopredic sarl, St Gregoire/F; ³ University Hospital Jena/D

11:55 Discussion with all speakers of this session

12:10 Lunch Break

13:30 **POSTER SESSION 2 / EXHIBITION**

Innovative Microphysiological Systems II

Chair: J. Hansmann, Universitätsklinikum Würzburg/D

15:00 **KEYNOTE LECTURE 4**
Advancing regulatory science through innovation; in vitro microphysiological systems
*S. Fitzpatrick*¹; ¹ Center for Food Safety and Applied Nutrition / FDA, College Park, MD/USA

15:30 **A human immuno-competent microphysiological alveolus-on-chip model to study microbial pathogenesis**
*K. Rennert*¹; S. Deinhardt-Emmer²; E. Schicke²; Z. Cseresnyés³; S. Nietzsche²; *M. Raasch*¹; G. Makert dos Santos⁴; S. Ulbert⁴; P. Loskill⁵; C. Ehrhardt²; B. Löffler²; A. Mosig²; ¹ Dynamic42 GmbH, Jena/D; ² University Hospital Jena/D; ³ Leibniz Institute for Natural Product Research and Infection Biology - Hans Knöll Institute (HKI), Jena/D; ⁴ Fraunhofer Institute for Cell Therapy and Immunology, Leipzig/D; ⁵ Fraunhofer Institute for Interfacial Engineering and Biotechnology, Stuttgart/D

15:45 **Micro-physiological system for prolonged cultivation of immune competent lung tissue *ex vivo***
*S. Böhlen*¹; S. Konzok¹; S. Behrens²; F. Schmieder²; F. Sonntag²; A. Braun¹; S. Dehmel¹; K. Sewald¹; ¹ Fraunhofer Institute for Toxicology and Experimental Medicine ITEM & Biomedical Research in Endstage and Obstructive Lung Disease Hanover (BREATH), Hanover/D; ² Fraunhofer Institute for Material and Beam Technology IWS Dresden/D

16:00 **Development of vascularized melanoma skin equivalents for studying metastasis and anti-melanoma therapies (P3.1.01)**
*A. Leikeim*¹; J. Kliche¹; M. Komma¹; F. Schmidt²; F. Groeber-Becker²; ¹ Uniklinikum Würzburg/D; ² Fraunhofer ISC - Translational Center Regenerative Therapies TLC-RT, Würzburg/D

16:05 Discussion with all speakers of this session

16:20 **AWARD CEREMONY**

16:45 **Virtual Get-together at Wonder**

18:00 End of Day 2

LECTURE PROGRAMME

Friday, 7 May 2021

Investigating Host-Microbial Interactions

Chair: I. Prade, Forschungsinstitut für Leder und Kunststoffbahnen (FILK) gGmbH, Freiberg/D

- 09:00 **Microengineered *in vitro* model of the small intestine epithelium for studying host-bacteria interactions**
M. García-Díaz¹; M. Cendra¹; R. Alonso-Román¹; E. Torrents¹; E. Martínez¹; ¹ Institute for Bioengineering of Catalonia (IBEC), Barcelona/E
- 09:15 **Matrix-free culture of intestinal organoids in thermoformed microwells**
P. Kaknj¹; S. Giselbrecht¹; R. Truckenmüller¹; P. Habibovic¹; ¹ Maastricht University/NL
- 09:30 **Investigating human cytomegalovirus infection in human vessels based on novel *in vitro* and *in vivo* model systems**
 A. Dittrich¹; I. Kutle¹; D. Wirth¹; ¹ Helmholtz Centre for Infection Research, Braunschweig/D
- 09:45 Discussion with all speakers of this session
- 10:00 **Coffee Break**

Bioprinting and Enabling Technologies

Chair: M. Rimann, Zurich University of Applied Sciences, Wädenswil/CH

- 10:30 **Fabrication of human jawbone models using stereolithographic 3D bioprinting**
A. Amler¹; A. Thomas¹; T. Lam²; M. Geiger²; A. Kreuder¹; C. Palmer²; S. Nahles³; R. Lauster¹; L. Kloke²; ¹ TU Berlin/D; ² Cellbricks GmbH, Berlin/D; ³ Charite Universitätsmedizin Berlin/D
- 10:45 **Drop-on-demand bioprinting solutions for the fabrication of 3D cell culture systems aiming for *in vitro* screening applications**
K. Tröndle¹; A. Itani¹; F. Koch¹; R. Zengerle²; P. Koltay¹; S. Zimmermann¹; ¹ University of Freiburg/D; ² Hahn-Schickard, Freiburg/D
- 11:00 **Using peptide hydrogels to build 3D cell disease and tissue models for drug discovery**
A. Miller¹; ¹ University of Manchester/UK
- 11:15 Discussion with all speakers of this session
- 11:30 **Closing Remarks**
- 11:35 **End of the conference**

POSTER PROGRAMME

- P1.1.01 **Mucus producing CaCo-2 cells as organotypical intestinal model for multiplex co-culture systems**
 M. Willig¹; R. Kehlbach¹; G. Stein¹; M. Schmolz¹; ¹ HOT Screen GmbH, Reutlingen/D
- P1.1.02 **Liver spheroid co-cultures with fresh or cryopreserved hepatocytes and endothelial cells as tool to investigate metabolism and hepatotoxicity**
A. Ullrich¹; J. Moer¹; D. Runge¹; S. Beuck²; M. Matz-Soja³; A. Zimmermann⁴; ¹ Primacyt Cell Culture Technology GmbH, Schwerin/D; ² A&M Labor Service GmbH, Bergheim/D; ³ Universität Leipzig/D; ⁴ Sächsischer Inkubator für klinische Translation, Leipzig/D
- P1.1.03 **Investigation of tumor cell extravasation in a novel microfluidic device**
C. Kühnbach¹; M. Mueller¹; F. Baganz²; V. Hass¹; ¹ HFU Hochschule Furtwangen University, Villingen-Schwenningen/D; ² UCL University College London/UK
- P1.1.04 **Characterization of primary ovarian cancer cells and their response to cisplatin in a 3D cell culture model**
J. Dittrich¹; J. Schiepaniski¹; A. Herz¹; N. Maass¹; D. Bauerschlag¹; N. Hedemann¹; ¹ Christian-Albrechts-Universität Kiel/D
- P1.1.05 **Online-measurement of Rhodamine 123 transport via P-glycoprotein through a micro-physiological tubular barrier**
 F. Gottlöber¹; S. Behrens¹; F. Sonntag¹; J. Sradnick²; C. Hugo²; F. Schmieder¹; ¹ Fraunhofer Institute for Material and Beam Technology IWS, Dresden/D; ² University Hospital Carl Gustav Carus, TU Dresden/D
- P1.1.06 **Autologous ECFCs as promising cell source for endothelialization of TEVGs**
X. Kraus¹; M. Pflaum²; T. Stefanie¹; R. Jonczyk¹; M. Witt¹; T. Scheper¹; C. Blume¹; ¹ Leibniz University Hannover/D; ² Medical University Hannover/D
- P1.1.07 **Evaluating drug-induced liver toxicity of acetaminophen, trovafloxacin and levofloxacin in a triple-cell microphysiological liver sinusoidal model**
T. Kaden¹; R. Li²; A. Mosig³; K. Graf¹; M. Raasch¹; K. Rennert¹; ¹ Dynamic42 GmbH, Jena/D; ² Biopredic sarl, St Gregoire/F; ³ University Hospital Jena/D
- P1.2.01 **Development of a new human organotypic 3D urinary bladder epithelium model in complex whole blood co-culture with immune cells**
 M. Willig¹; R. Kehlbach¹; G. Stein¹; M. Schmolz¹; ¹ HOT Screen GmbH, Reutlingen/D
- P1.3.01 **An hiPSC-based 3D cell culture system to model the human neuromuscular junction *in vitro***
S. Hörner¹; M. Grob¹; T. Lau²; P. Koch²; M. Hafner¹; R. Rudolf¹; ¹ Mannheim University of Applied Sciences/D; ² Hector Institute for Translational Brain Research, Central Institute of Mental Health (ZI), Mannheim/D
- P1.3.02 **Engineered 3D *in-vitro* model of small intestine: the impact of the stromal compartment**
N. Torras Andrés¹; A. Vila-Giraut¹; A. García-Castaño¹; M. García-Díaz¹; J. Comelles¹; V. Fernández-Majada¹; E. Martínez¹; ¹ Institute for Bioengineering of Catalonia, IBEC, Barcelona/E

POSTER PROGRAMME

- P1.3.03 **Potential and limitations of hybrid supramolecular-polysaccharide hydrogels for macrophage 3D cell culture models**
D. Hebel¹; M. Müller¹; ¹ University Siegen/D
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- P1.3.04 **A 3D Co-Culture System – Mimicking the tumor microenvironment**
J. Hunsrucker¹; S. Garg²; ¹ Goethe Universität Frankfurt am Main, Darmstadt/D;
² Merck Healthcare KGaA, Darmstadt/D
-
- P2.1.01 **A novel stiffness-tunable hydrogel made from alginate and human platelet lysate for the cultivation of mesenchymal stem cells**
C. Almeria¹; A. Kovacs¹; T. Peham¹; H. Hemeda²; C. Kasper¹; D. Egger¹; ¹ University of Natural Resources and Life Sciences, Vienna/A; ² PL BioScience GmbH, Aachen/D
-
- P2.1.02 **Applying a microphysiological 3D human liver – islet microtissue platform to study drug – drug interaction**
L. Hoelting¹; I. Karakoc¹; B. Yesildag¹; W. Moritz¹; O. Frey¹; ¹ InSphero AG, Schlieren/CH
-
- P2.2.01 **Encapsulation of mesenchymal stem cells in gelatin methacryloyl (GelMA) microbeads for cultivation and production of extracellular vesicles in a vertical wheel bioreactor**
C. Almeria¹; S. Kreß¹; I. Pepelanova²; D. Egger¹; C. Kasper¹; ¹ University of Natural Resources and Life Sciences, Vienna/A; ² Leibniz Universität Hannover/A
-
- P2.2.03 **Analysis, imaging and sorting of 3-D cultures and organoids on the COPAS VISION large particle flow cytometer**
F. Smet¹; M. Leu²; ¹ Union Union Biometrica, BVBA, Aalst/B; ² abc Biopply, Cham/CH
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- P2.2.04 **Hypoxia or normoxia: mesenchymal stem cells and chondrocytes with a genetically integrated hypoxia sensor in different 3D cell culture systems**
C. Schmitz¹; T. Fleischhammer¹; I. Pepelanova¹; E. Potekhina²; V. Belousov³; T. Scheper¹; A. Lavrentieva¹; ¹ Leibniz University Hannover/D; ² Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Moscow/RUS; ³ Federal Center of Brain Research and Neurotechnologies, Federal Medical Biological Agency, Moscow/RUS
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- P2.2.05 **A novel polymer generates cell repellent surfaces and allows 3D cell culture**
A. Ullrich¹; V. Schwartz²; D. Runge¹; T. Mentzel²; ¹ Primacyt Cell Culture Technology GmbH, Schwerin/D; ² Chemovator GmbH, Mannheim/D
-
- P2.2.06 **Smarter surfaces to create cellular niches without artefacts**
A. Raic³; V. Schwartz²; T. Mentzel¹; S. Widmaier¹; N. Kaiser²; B. Birk²; C. Oberfrank²; P. Hahn²; P. Stengel²; J. Sloan²; ¹ Chemovator GmbH, Mannheim/D; ² BASF SE, Ludwigshafen/D; ³ faCellitate - c/o Chemovator GmbH, Mannheim/D
-
- P2.2.07 **CellPulse: Single pulse laser poration of cells**
R. Wittig¹; F. Hausladen¹; F. Hessenberger¹; Y. Kao²; P. Kruse¹; T. Stegmayer¹; M. Springer³; R. Preyer³; K. Stock¹; ¹ Institute for Laser Technologies in Medicine & Metrology (ILM) at Ulm University/D; ² Institute of Microsystem Technology (IMTEK) at University of Freiburg/D; ³ GenID, Strassberg/D

POSTER PROGRAMME

- P2.2.08 **Non-invasive online monitoring of stem cell aggregate cultivation in a stirred tank bioreactor**
S. Nebel¹; C. Almeria¹; I. Nikolits¹; S. Kreß¹; D. Egger¹; C. Kasper¹; ¹ University of Natural Resources and Life Sciences, Vienna/A
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- P2.2.09 **PDMS free modular plug&play construction kit for the development of micro-physiological systems**
S. Behrens¹; F. Schmieder¹; C. Polk¹; P. Schöps¹; F. Sonntag¹; ¹ Fraunhofer Institute for Material and Beam Technology IWS, Dresden/D
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- P2.2.10 **CERO 3D is a novel incubator capable of long-term 3-dimensional cell culture of pluripotent stem cells, primary cells as well as spheroids, organoids, and tissue pieces**
A. Keric¹; M. Uhrig¹; ¹ OLS - OMNI Life Science GmbH & Co. KG, Bremen/D
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- P2.2.11 **Semi-automatic production of dermal skin models**
L. Königer¹; T. Finger¹; M. Wußmann²; A. Boccaccini³; J. Hansmann²; ¹ University Hospital Würzburg/D; ² Fraunhofer Institute for Silicate Research (ISC), Würzburg/D; ³ University of Erlangen-Nuremberg, Erlangen/D
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- P2.2.12 **Manipulating and analysing cells with magnetic 3D cell culture**
G. Souza¹; L. Breth¹; ¹ Greiner Bio-One GmbH, Frickenhausen/D
-
- P2.3.01 **Novel Optical Coherence Tomography (OCT) technology for no-invasive 3D ex vivo imaging**
A. Ueda¹; T. Muira¹; Y. Kuromi¹; Y. Mori¹; H. Fujimoto¹; S. Dhar²; ¹ SCREEN Holdings., Kyoto/J; ² SCREEN GP EUROPE B.V., Amsterveen/NL
-
- P2.4.01 **Corning® Matrigel® Matrix 3D plates for high-throughput organoid assays**
H. Sherman¹; U. Vespermann²; P. Weiser²; F. Wienholz³; ¹ Corning Life Sciences, Kennebunk, ME/USA; ² Corning Life Sciences, Berlin/D; ³ Corning Life Sciences, Amsterdam/NL
-
- P2.4.02 **Design and testing of a novel cartridge to isolate immune cells from small volume blood samples**
S. Behrens¹; F. Schmieder¹; F. Sonntag¹; ¹ Fraunhofer Institute for Material and Beam Technology IWS, Dresden/D
-
- P2.4.03 **Analysis of tumor spheroids growing in Kugelmeiers Sphericalplates 5D using NYONE® and YT®-Software**
W. Schaefer¹; L. Philipp²; T. Krichel¹; T. Christmann¹; R. Geisen¹; B. Werdelmann¹; M. Pirsch¹; S. Sebens²; ¹ SYNENTEC GmbH, Elmshorn/D; ² UKSH, Kiel/D
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- P2.5.01 **Bioprinting of vascular structures with enzymatically degradable sacrificial bioinks**
A. Thomas¹; I. Orellano²; T. Lam³; B. Noichl³; M. Geiger³; A. Amler¹; A. Kreuder¹; C. Palmer³; G. Duda⁴; R. Lauster¹; L. Kloke³; ¹ TU Berlin/D; ² Berlin-Brandenburg School for Regenerative Therapies, Berlin/D; ³ Cellbricks GmbH, Berlin/D; ⁴ Julius-Wolff-Institut, Berlin/D
-
- P2.5.02 **Mechanical properties of 3D printed scaffolds for heart valve tissue engineering**
K. Kreuels¹; Z. Zhong²; P. Mela²; N. Nottrodt³; ¹ RWTH Aachen University/D; ² TU München/D; ³ Fraunhofer Institut für Lasertechnik, Aachen/D

POSTER PROGRAMME

- P2.6.01 **Towards a mathematical model of tumor cell extravasation**
 C. Kühlbach¹; F. Baganz²; V. Hass¹; ¹ HFU Hochschule Furtwangen University, Villingen-Schwenningen/D; ² UCL University College London/UK
-
- P3.1.01 **Development of vascularized melanoma skin equivalents for studying metastasis and anti-melanoma therapies**
 A. Leikeim¹; J. Kliche¹; M. Komma¹; F. Schmidt²; F. Groeber-Becker²; ¹ Uniklinikum Würzburg/D; ² Fraunhofer ISC - Translational Center Regenerative Therapies TLC-RT, Würzburg/D
-
- P3.1.02 **Bio-printable 3D in vitro Tumor-Tissue-Modell for high throughput testing of tumortherapeutica**
 S. Hensler¹; M. Mueller¹; C. Kühlbach¹; R. Glunz¹; ¹ HFU Hochschule Furtwangen University, Villingen-Schwenningen/D
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- P3.1.05 **3D co-culture model based for triple negative breast cancer (TNBC) encompassing cancer associated fibroblasts (CAF)**
 I. Reimche¹; P. Proksch²; U. Jungwirth³; N. Teusch¹; ¹ Universität Osnabrück/D; ² Heinrich-Heine-Universität Düsseldorf/D; ³ University of Bath/UK
-
- P3.1.06 **Investigation of the metalloprotease ADAM17 in ovarian cancer spheroids**
 J. Schiepanski¹; A. Herz¹; N. Tribian¹; N. Maass¹; D. Bauerschlag¹; N. Hedemann¹; ¹ Christian-Albrechts-Universität Kiel/D
-
- P3.3.01 **Generation of multicellular spheroid culture models of pediatric vital tumor samples obtained through the INFORM registry study for functional studies**
 H. Peterziel¹; A. Mangang¹; P. Fiesel²; S. Oppermann¹; L. Turunen⁴; J. Saarela³; O. Witt⁴; I. Oehme¹; ¹ Hopp Children's Cancer Center Heidelberg (KITZ), German Cancer Research Center (DKFZ) and German Cancer Consortium (DKTK) Heidelberg/D; ² German Cancer Research Center (DKFZ) and German Consortium for Translational Cancer Research (DKTK) Heidelberg/D; ³ University of Helsinki, Finland (FIMM-UH), Helsinki/FIN; ⁴ Hopp Children's Cancer Center Heidelberg (KITZ), German Cancer Research Center (DKFZ), German Cancer Consortium (DKTK) and Heidelberg University Hospital/D
-
- P3.6.01 **Establishment of a human 3D in vitro tissue culture system for Onchocerca volvulus based on human skin**
 C. Malkmus¹; S. Jawahar²; N. Tricoche²; S. Lustigman²; J. Hansmann³; ¹ University Hospital Würzburg/D; ² New York Blood Center, NY/USA; ³ Fraunhofer Institute for Silicate Research (ISC), Würzburg/D

20 – 23 September 2021 · Online Event

ECCE 13 & ECAB 6

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6th European Congress of Applied Biotechnology

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