

Time	Donnerstag 22.3.2018
12:30-13:45	Registration
13:45-14:00	Opening
14:00-14:40	Session I: ECM in Development & Stem Cell Research, Session Chairs: Eva Brauchle (Uni Tübingen, Germany) & Alexander Nyström (University Freiburg, Germany)
14:40-15:00	Session Keynote Lecture: Milica Radisic (Uni Toronto, Canada) <i>Microfabrication of elastomeric polymers for organ-on-a-chip engineering and injectable tissues</i>
15:00-15:20	Glauco Souza (University Texas, USA) <i>Magnetic 3D Cell Culture and Bioprinting for Stem Cell Research and High-Throughput Compound Screening</i>
15:20-15:40	Collin Ewald (ETH Zürich, Switzerland) <i>Investigating the C. elegans matrisome during aging</i>
15:40-16:00	Dominique Manikowski (University Münster, Germany) <i>N- and C-terminal ectodomain shedding regulate Hh bioactivity in vitro and in vivo</i>
16:00-16:20	Sven Poppelreuther (Zeiss, Germany) <i>3D Imaging of Cells and Matrices from Macroscopic to Nanometer Scale</i>
16:20-18:00	Marc Richter (Renishaw GmbH, Pliezhausen, Germany) <i>Label-free Raman analysis and monitoring of extracellular matrix formation and development</i>
18:00-19:00	Guided Poster Session with Poster Competition I
19:00-21:00	Plenary Lecture, chaired by Liliana Schäfer (Uni Frankfurt, Germany): Matthias Lutolf (EPFL Lausanne, Switzerland) <i>Organoid development by design</i> Get Together

Time	Freitag 23.3.2018
08:00-09:00	Registration
09:00-09:40	Session II: ECM in Aging & Disease, Session Chairs: Katja Franke (Uni Leipzig, Germany) & Jan Gebauer (Uni Cologne, Germany)
09:40-10:00	Session Keynote Lecture: Laurent Debelle (University Reims Champagne-Ardenne, France) <i>Fluorescence and nanoCT imaging of arterial extracellular matrix</i>
10:00-10:20	Miguel Ortega (University Alcalá, Spain) <i>Histopathological studies in patients with chronic venous insufficiency: Special implication of SERPIN (PEDF)</i>
10:20-10:40	Kaori Sugiyama (University of Tsukuba, Japan/ University Tübingen, Germany) <i>Label-free Raman imaging of elastic fibers in diseased and healthy mouse aortic tissues</i>
10:40-11:00	Karina Zeyer (University Freiburg, Germany) <i>Analyses of the fibrillin microfibril architecture and fibroblast subpopulations in recessive dystrophic epidermolysis bullosa</i>
11:00-12:30	Johannes Schittny (University Bern, Switzerland) <i>Tenascin C knockout mice have an altered lung function at newborn and adult age</i>
12:30-13:15	Guided Poster Session with Poster Competition II Mittagessen
13:15-13:55	Session III: ECM & Inflammation/ (Auto)Immune Response/ Signaling, Session Chairs: Gerd Klein (Uni Tübingen, Germany) & Susanne Grässel (Uni Regensburg, Germany)
13:55-14:10	Session Keynote Lecture: Antonella Viola (University of Padua, Italy) <i>Mitochondrial control of macrophage activation</i>
14:10-14:25	Madalina-Selviana Nastase (University Frankfurt, Germany), <i>Biglycan triggers the recruitment of Th1 and Th17 cells into the kidney through the TLR2/4/MyD88/TRIF-signaling</i>
14:25-14:40	Georg Sedlmeier (Medical Faculty Mannheim/ University Heidelberg, Germany) <i>Matrix-assisted autocrine BMP signalling regulates stemness properties in melanoma cells</i>
14:40-14:55	Bernhard Wehrle-Haller (University Geneva, Switzerland) <i>Metabolic control of fibronectin remodeling by post-translational modification of beta1-integrin</i>
14:55-15:20	Wiltrud Richter (Uni Heidelberg, Germany) <i>Extracellular matrix content and WNT/β-catenin levels of cartilage determine the chondrocyte response to compressive load</i> Coffee Break
15:20-16:00	Session IV: ECM & Immunology, Session Chairs: Julia Huppert (Uni Muenster, Germany) & Gerhard Sengle (Uni Cologne)
16:00-16:20	Session Keynote Lecture: Ankur Singh (Cornell University, USA) <i>Immune Organoids to Model Immunity and Epigenetics – A Matrix-Immunology Approach</i>
16:20-16:40	Katrin Schönborn (University of Cologne, Germany) <i>Dermal collagen XII deposition has a dose-dependent effect on wound healing in skin</i>
16:40-17:00	Yvonne Knieper (University Münster, Germany) <i>4-Phenylbutyrate (4-PBA) reduces ER stress and inhibits autophagy in chondrocytes</i>
17:00-18:00	Alexander Nyström (University Freiburg, Germany) <i>Impaired lymphoid extracellular matrix impedes antibacterial immunity</i>
17:00-17:20	Young Investigator Competition-Session, Session Chairs: Julia Etich (Uni Cologne) & Liliana Schäfer (Uni Frankfurt)
17:20-17:40	Björn Bluhm (University of Cologne, Germany) <i>MiRNAs: posttranscriptional modulators of cellular and extracellular cartilage compartments</i>
17:40-18:00	Melanie Föll (University Freiburg, Germany) <i>Identification of tissue damage, extracellular matrix remodeling and bacterial challenge as common mechanisms associated with high-risk cutaneous squamous cell carcinomas</i>
18:00-19:00	Germano Piccirillo (University of Basilicata, Italy/ University Tübingen, Germany) <i>Electrospun poly-L-lactide scaffold for a controlled and targeted delivery of a synthetically obtained Diclofenac prodrug to treat actinic keratosis</i>
19:00-21:30	General Assembly Conference Dinner (@Fraunhofer IGB)

Time	Samstag 24.3.2018
08:00-09:00	Registration
09:00-09:40	Session V: ECM & Disease, Session Chairs: Rita Dreier (Uni Muenster, Germany) & Jörn Dengjel (Uni Fribourg, Switzerland)
09:40-10:00	Session Keynote Lecture: Sanjay Sinha (University of Cambridge, United Kingdom) <i>Disease-in-a-dish: bridging the translational gap</i>
10:00-10:15	Invited Speaker: Michael Sherratt (University of Manchester, United Kingdom) <i>Micro-computed X-ray tomography: 3D imaging in cardiovascular disease, intervertebral disc degeneration and breast cancer</i>
10:15-10:30	Wing Ying Chow (Leibniz-Institute Berlin, Germany) <i>Collagen triple helix structural change in alkaptonuria cartilage probed by solid-state NMR</i>
10:30-10:45	Dominique Muschter (University Regensburg, Germany) <i>Sensory nervous system impact on subchondral bone pathology in a murine OA model</i>
10:45-11:00	Patrick Seifer (University Cologne, Germany) <i>Characterization of the matn3 T298M mouse</i>
11:00-11:15	Marija Plodinec (University Basel, Switzerland) <i>Mechanobiology of human basement membranes in healthy epithelia and cancer</i>
11:15-11:30	Gertraud Orend (INSERM, Strasbourg, France) <i>The extracellular matrix molecule tenascin-C promotes metastasis by several stromal and tumor cell autonomous mechanisms involving Wnt, TGFβ and integrin α9β1 signaling</i>
11:30-11:50	Eva Brauchle (University Women's Hospital Tübingen, Germany) <i>Identification of glycosaminoglycans in extracellular matrix of human tumor tissues</i> Coffee Break
11:50-12:30	Session VI: ECM & Regenerative Medicine, Session Chairs: Svenja Hinderer (Fraunhofer IGB) & Jörg Bluhm (Uni Cologne, Germany)
12:30-12:45	Session Keynote Lecture: Dimitrios Zeugolis (NUI Galway, Ireland) <i>ECM-rich supramolecular assemblies in regenerative medicine</i>
12:45-13:00	Marc Simonet (IME Technologies, The Netherlands) <i>Electrospinning for regenerative medicine; challenges and solutions to bring products to the market</i>
13:00-13:15	Anand Ramamurthi (Cleveland Clinic, USA) <i>JNK-targeting nanotherapeutics for elastic matrix regenerative repair in abdominal aortic aneurysms</i>
13:15-13:30	Veronika Georgieva (University Cologne, Germany) <i>Validating miRNA targets by CRISPR/Cas-mediated genomic engineering</i>
13:30-14:00	Adjourn Lunch to go