

Admiraal, Jade		
Building the blood–brain barrier: a self-assembling immune-competent 3D brain microvasculature model under unidirectional flow		40
Alghamdi, Abdullah		
Microfluidics-based live-cell imaging and characterization of cell migration		41
Alhamdan, Hamza		
Generation of vascularized human distal lung organoids from primary cells to study lung regeneration		42
Arce, Maximiliano		
Modelling vascular malformations using patient-derived iPSCs vascularized organoids and endothelial progenitors		43
Arslan, Yagmur		
Endothelial juxtacrine and paracrine signaling alter pericyte force exertion in cerebral cavernous malformations		44
Aspert, Théo	Presenter: Kirsch, Maria	
Immunocompetent bladder-on-chip model to study catheter-associated urinary tract infection (CAUTI)		45
Babahnini, Ibtissam		
The role of ARHGEF18 in endothelial cells response to flow: regulation of vascular reactivity and inflammation		46
Bartolini, Marco		
Vascularized midbrain organoids to study aqp4-mediated glymphatic flow in Parkinson's disease		47
Bektas Tercan, Seyma		
A robust strategy for integrating decellularized human amniotic membrane into microfluidic organ-on-chip platforms		48
Blivet-Bailly, Louison		
Vascular endothelial integration of multiple biophysical stimuli		49

EMBO Workshop: Building networks: engineering in vascular biology

Borri, Mila	
A vascularized iPSC-derived human brain tissue model and its in vivo transplantation for studying vasculature in neurodegenerative and -vascular diseases	50
Bousbaa, Amira	
Development of a novel aorta-on-a-chip model for thoracic aortic aneurysm research	51
Candelas, Adrian	
How do malaria cues rewire endothelial mechanics?	52
Cataudella, Elisa	
A transiently amplifying and self-limiting nova2-adar2 circuit in endothelial cells	53
Cobanoglu, Defne	
Engineering a vascularized placenta-on-chip to investigate hormone-dependent regulation of placental microvascular and barrier function	54
Crimaldi, Luigi	
Morphological characterization of smooth muscle cell phenotypic response to biophysical cues of the extracellular environment	55
Darmon, Anne	Presenter: Gayral, Stéphanie
Low shear stress activates a PI3KIIα-dependent autophagic program to preserve endothelial homeostasis	56
De Gea, Priscille	
From endothelialized spheroids to vascularized pancreatic islet organoids on-chip, for patient application	57
Esanu, Ioana	
Modulation of nitric oxide signalling by red blood cell deformability in an in vitro microvascular model	58
Fiegl, Manuel	
Establishing cutting-edge transcriptomics analyses for 3D in-vitro vasculature models	59

Fonseca-Alaniz, Miriam H Unraveling nonlinear synergistic interactions among cardiovascular risk factors driving endothelial dysfunction	60
Forteza Guillamon, Marina Vascularized lymphoma model enhances B cell viability and tumor crosstalk	61
Gensheimer, Tarek Organ-on-Chip platform to model the outer blood-retinal-barrier from hiPSC-derived cells for retinal disease modelling and drug discovery	62
Geraldes, Ines Bioengineering 3D liver-sinusoid microvessels for malaria infection	63
Geroneit, Isabel Non-destructive structural and functional assessment via optical coherence tomography of volumetric printed vascular disease models	64
Giannetti, Arianna Tomographic shearmetry of dynamic flows at cell surfaces using nanoprobe	65
Cancelled	66
Gonzalez, Judit Development of an immunocompetent iPSC-derived 3D blood-brain barrier model to study microglia driven pathogenesis in cerebral malaria	67
Gutierrez, Jemy Development of in vitro functional assays for targeting vascular endothelial protein tyrosine phosphatase (VE-PTP)	68
Hansen, Ben Vascular integration of encapsulated pancreatic ductal cancer organoids	69

Heinold, Josephine	
Quantitative dissection of glioblastoma perivascular invasion via CRISPR-TAG and human vascular organoids	70
Hub, Tobias	
A human iPSC-derived multi-lineage model of lymph and blood vascularization	71
Isosaari, Lotta	
Three-dimensional Brain Cancer-on-Chip model recapitulates multicellular neuro-vascular interactions and drug responses	72
Janssen, Vera	Presenter: de Kraker, Hannah
Nanoscale junctional membrane curvatures recruit BAR proteins for endothelial collective migration	73
Kiers, Jasmine	
Innovative modelling of the human microcirculation: using live-cell imaging to obtain Rho kinetics for in silico modelling of proteostasis	74
Kitada, Atsuya	
Identifying key factors for vascularized TFE3-rearranged renal cell carcinoma-on-a-chip	75
Koch, Katharina	
YAP/TAZ-dependent mechanocrine signals from endothelial cells control pericyte state	76
Krueger, Jana	
Fabrication of 3d printed cellularized vascular grafts with optimized biomechanical properties similar to native arteries	77
Kuzminska, Hanna	
Micropatterning of vasculature on chip by microelectrode array (MEA)-assisted electroporation of human induced pluripotent stem cells	78
Laakkonen, Johanna	
Assessing vascularization capacity and barrier properties of BBB-specific endothelial cells and pericytes	79

Leoni, Anna	
BMI1 inhibition reduces lesion burden and slows down disease progression in a chronic mouse model of cerebral cavernous malformation	80
Liu, Hong	
iPSCs-based 3D vascular platforms reveal context-dependent responses to anti-angiogenic agents	81
Mahammadzade, Nagi	
Mechanistic understanding of arteriovenous malformations using the zebrafish model	82
Malandrino, Andrea	
Mechanobiological inference on engineered patient-specific multicellular vascularized building blocks	83
Martins, Elisa	
Guiding vascular organization in engineered 3d human bone models through anisotropy and flow	84
Moro, Marianna	
Extracellular nicotinamide phosphoribosyltransferase (eNAMPT) as a novel driver in breast cancer angiogenesis	85
Moser, Franz	
Multi-channel biofabricated vascular constructs for studying blood-lymphatic crosstalk	86
Mruk, Oliwia	
PI3K inhibitor-free differentiation and maturation of human iPSC-derived arterial- and venous-like endothelial cells	87
Nahon, Dennis	
Vascularized engineered organoids to assess biodistribution and PKPD of large molecules	88
Özliseli, Ezgi	
Comparative study on mesoporous silica nanoparticle-endothelial barrier interactions in static vs dynamic flow conditions using a multi-well platform	89

EMBO Workshop: Building networks: engineering in vascular biology

Plecita, Lydie	
Vascular plasticity of the pancreatic islet endothelium during in vitro culture	90
Rakovoliou, Elena	
Molecular mechanisms of vasculogenesis	91
Rojek, Katarzyna	
Engineering of cancer microenvironments with embedded interconnected microcapillary networks via in vitro magnetic assembly of endothelial-cell 'seeds'	92
Saenko, Valeriia	
Scalable human blood vessel organoid differentiation for modelling cerebral cavernous malformations	93
Schütterle, Malte	
Establishing an in vitro blood-brain-barrier model to study the effect of basement membrane laminins on BBB physiology	94
Schwarzkopf, Jennifer	
In-vivo-like sprouting tip cell biology in human microphysiological systems	95
Seral, Farid	
A multi-throughput microfluidic platform for flow-regulated microvessels-on-chip	96
Smith, Harriet	
How do cells use their protrusions to improve decision-making during angiogenesis?	97
Smith, Imogen	
Establishing a vascular hindbrain assembloid (VHA) model to study brain-vascular interactions in congenital disorders	98
Spielmann, Alena	
Studying leukocyte trafficking in a human inner blood-retinal barrier on-a-chip	99

Stassen, Oscar	Presenter: Virtanen, Noora	
Mechanosensitive interactions between Jag1 and Myo1c control Jag1 trafficking in endothelial cells		100
Subramanya, Chinmayi		
Ensnarled: Deciphering the architecture and physiology of complex interconnected networks		101
Tam, Nicky		
Elastin-like polypeptides: designer extracellular matrix-mimicking proteins for studying cell-matrix interactions		102
Trojanowski, Jorge		
SPACE-FISH reveals spatial gene expression changes in engineered 3D microvascular tissues by multiplexed single round imaging		103
V, Juhi		
RBM20 mediated splicing shapes vascular smooth muscle mechanics		104
Vahdani, Negar		
Self-assembled liver microvasculature-on-chip with liver-specific cell populations		105
Varis, Vera		
Opposing effects of TGF-β downstream targets on tumoroid growth and metastasis: 3D co-culture assay to study endothelial secreted factors		106
Vieira, Ricardo		
From spheroids to multicellular vascular sprouts for better understanding of retinal vascular communication and diabetic retinopathy		107
Wrublewsky, Selina		
Generation of prevascularized spheroids for liver tissue engineering by fusion of microvascular fragments with primary hepatocytes		108

Zanoni, Gaja	
Volumetric bioprinting of perfusable and fully endothelialized vessels model	109
Zarin-Bal, Shayan	
Collagen density affects aortic endothelial YAP nuclear fraction and angiogenic sprouting in vitro	110
Zawada, Dorota	
Engineering autologous hiPSC-derived microvessels for cardiac tissue modeling	111
Zhang Schaerer, Yanping	
A fine-tuned cellpose-SAM model for segmenting vascular networks	112
Zhou, Angela	
Blood perfusion drives microvessel maturation in engineered microvascular grafts	113
Zieske, Katja	
A lab-on-a-chip platform for controlled mechanical perturbations of biopolymer and cellular systems	114
Zimmermann, Anna-Sophie	Presenter: Marianna Caporaso
Patient-specific vascularized midbrain assembloids with microglia show altered neuroinflammatory phenotypes in Parkinson's disease	115