WEDNESDAY JUNE 11, 2025 10:00–11:30 AM

	Abstract		
find	Number	Presenter	Title
			velopment and Results Processing
	l	Theme 1.1:	Biomaterials and cell sources
400	42	Hala a Hal I a	Engineering tumor microenvironments: Bioprinted hydrogels in breast
100	12	Helen Holzke	cancer research
102	20	Ronald van Gaal	Silica membranes for a bio-artificial kidney
104	52	Swati Midha	Engineering spatially heterogenous and controllable hydrogel matrices in organ-chip platforms
104	52	Swati iviiuiia	Bioproduction of mesenchymal stromal cells (MSC) through ink-jet 3D
			bioprinting: Dissolvable hydrogel-printed microbeads to raise cell
106	71	Carlos Chocarro Wrona	amplification yields
100	71	carios criocarro virona	Engineering a salivary gland-on-a-chip supported by a physiomimetic
108	72	Chau B. Lam	decellularized extracellular matrix hydrogel
100	,,,	Chaa B. Lam	Development of human glomerulus-on-chip based on human iPSC-
110	109	Manon Miran	derived glomerular cells
110	103	Wilding II Will all	Developing mimetic biophysical environments compatible with organ-
			chip systems for tenogenic differentiation towards specific tendon sub
112	123	Catrin Bevan	populations
			Novel screening system for the evaluation of biliary excretion of drugs
114	139	Takuo Ogihara	using human cholangiocyte organoid monolayers
			Distinct functional properties of human iPSC-derived sympathetic
116	155	Oskari Kulta	neurons in vitro
118	202	Maryna Somova	The ORCA: Driving the next generation of microphysiological systems
			Functionalized silk as structural proteins mimicking the ECM for the
120	211	My Hedhammar	construction of physiologically relevant tissue models
			Leveraging intrinsic heat shock stress response to increase early
122	214	Erin Spiller	angiogenesis in bioprinted microphysiological systems
			Tunable extracellular matrix-based granular hydrogels for organotypic
124	225	Liisa M. Blowes	and organ-on-chip models
			Investigation on compound leaching of DLP 3D-printed materials to
126	257	Judith Krauß	advance microfluidic cell culture
			Investigation of monocyte amoeboid movement using alginate-PLL
128	266	Aslınur Ulucay	hydrogel in lab-on-a-chip
			Mechanical modelling of pulmonary hypertension using a matrix-
130	287	Jeremy Newton	derived microphysiological cell stretching platform
132	295	Sevgi Onal	Development of versatile hydrogel-on-chip platforms
			Comparing iPSC-derived and peripheral blood-derived monocytes for
			use as circulating immune cells in microphysiological models of
134	302	Emily Reitz	inflammation
400		T-1 V 1	Culture of human iPSC-derived renal stromal progenitor cells and their
136	351	Takuma Kobayashi	potential application in renal MPS
420	255	A ala Cara Al	Bioprinting multilayered human blood vessels-on-a-chip using
138	355	Ashfaq Ahmad	photocurable vascular tunic-specific bioinks
4.40	25.6	Vaslellass Vassal	Development of MPS devices using cyclo olefin polymer for epithelial
140	356	Yoshikazu Kameda	and vascular models
4.40	264	la a á mhinn a Duite a si	A breast-on-chip to study how oxidative stress influences adipose
142	361	Joséphine Briand	tissue aging and its impact on breast cancer risk
1 4 4	275	Flore Apres	A perfusable organ-on-chip model for vascularized brain organoids
144	375	Elena Aprea	using a biodegradable wax-based membrane
4.46	277	December 6.1	Generation of isogenic iPSC lines for HTNB disease modeling in a vesse
146	377	Dennis Schutter	on-chip model

find	Abstract Number	Presenter	Title
148	433	Carolina Rodríguez-Gallo	Magnetic actuators for functional 3D human engineered models of muscle dystrophies
150	436	Melissa van Velthoven	An integral approach to replace animal-derived products for microphysiological systems
			Development of functional DNA nanofibers towards applications for
152	440	Mihane Kawada	artificial extracellular matrix
154	441	Jeffrey Bajramovic	The 3Rs Centre Utrecht: Bridging MPS/NAMs and the 3Rs
156	459	Ryusei Kawabe	Development of artificial multicellular molecular robots and nucleic acid sensors for MPS applications
158	463	Elena Seibel	3D printed skin-on-chip model for reproducible chemical compound testing
4.60	524	E e de de DOTTALISCI	Automated and standardized production of organoids and tumoroids in microbeads of extracellular matrices
160	521	Frederic BOTTAUSCI	
162	548	Anastasiia Mykuliak	Evaluation of novel blue light crosslinked hyaluronan-fibrin hydrogel for in vitro vascularization
164	584	Jasper Van Hoorick	Ensuring reproducibility in GelMA-based bioinks for cartilage regeneration
466	507	La carab W	Derivation of a comprehensive biobank of human iPSC lines for open-
166	597	Joseph Wu	access distribution to academic researchers
168	620	Catherine A. Wu	Optimizing hydrogel microparticles to improve 3D bioprinting resolution for tissue engineering applications
100	020	Catherine A. Wa	Isolating and characterising tenocyte subpopulations for the
			generation of physiologically relevant microphysiological models of
170	622	Nidal S. Y. Khatib	tendon
172	629	Baishali Ghibhela	All layers matter: Full-thickness skin equivalent featuring dermal cell and matrix heterogeneity based on a shrinkage-hindered collagen hydrogel
			Consideration points in MPS perfusion chips: Verification of the
			possibility that cell culture conditions may differ between the
174	640	Naokata Kutsuzawa	upstream and downstream in the microchannel
			A novel bio-instructive scaffold for biomimetic collagen deposition
176	650	Kristin Schüler	aiming at cartilage tissue engineering and in vitro disease modelling of osteoarthritis
176	650	Kristin Schuler	Alternative dynamic in vitro cardiac model: Integration of
178	686	Federico Vozzi	biomechanical and biological approaches
170	000	T CUCTICO VOZZI	Replicating tendon ageing: Tuneable stiffness hydrogels to study
180	695	Luke Philbrooks	mechanical and cellular changes within the interfascicular matrix
			A user-friendly modular microphysiological system with controlled
182	743	Alessandro Marchesini	perfusion for in vitro tissue barrier modelling
			An in vitro microphysiological model for neuro-osteogenic interactions
184	754	Vasiliki Gkouzioti	in bone disease
186	756	Jennifer Rosowski	Charité 3R Primary Tissue Pipeline: Clinical waste into scientific gold to support biomedical research
			Optimising physical cues towards novel microphysiological systems: A
188	781	Simon Grossemy	tendon case study
190	793	Steffen Winkler	3D printed microfluidic perfusion system for parallel monitoring of hydrogel embedded cell cultures
			Organ-specific expression data guides choice of laminin for in vitro
192	794	Sam Hobson	studies incorporating organ-on-a-chip platforms
104	01.6	Malgarrate Duniet	Development of a dual-gel microfluidic device with spatially
194	816	Malgorzata Dwulat	configurable co-culture
196	829	Alexis Applequist	Design and validation of non-invasive contractility sensing heart-on- chip device
			Resilin-derived electrospun matrices for vascular in vitro vascular
198	847	Chiara Russo	models

	Number	Presenter	Title		
200	848	Carolina Lucchesi	Exploring the performance of HepatoXcell™ in two liver-chip technologies		
202	855	Gabriela Silva	Reversible hydrogel-based microfluidic device for constructing microvessels from endothelial cells		
			Generation of six integration-free iPSC lines from related human		
204	881	Anja Hellwig	donors		
			Gaussian curvature accelerating osteogenesis by directing orientation		
206	901	Jiamian Han	distribution of cell clusters		
208	910	Kamilà Kasparavišiūtė	Optimization of polycarbonate membrane coating strategies to enhance cell adhesion in two-channel microphysiological systems		
200	910	Kamilė Kasperavičiūtė	Spatial Dynamics of OV6+, AFP+, and Albumin+ Cells in 3D Liver Cancer		
210	921	Aisha Amari	Spheroids		
212	929	Alexis Franco	Hydrogel design for cornea on a chip drug screening model		
214	981	Hae-Yoon Kim	A 3D open microfluidic neuron culture platform: aligned PDL/parylene nanofibers-enhanced ECM for axon sprouting guidance		
		Track 1: MPS Develo	pment and Results Processing		
			crosstalk in multi-organ MPS		
			Coupling kidney organoids with liver and cardiac spheroids-on-chip for		
216	83	Katarina Breitholtz	multi-organ studies of cardio, renal, and metabolism diseases		
			Study on the heterogeneity of a liver tumor core and peripheral to the tumor angiogenesis using a micro-dissected patient-derived xenograft		
218	151	Chih-Yu Lin	and a microphysiological system		
210	131	Cilii Ta Liii	The need for personalised synovium-cartilage organ-chips to		
220	188	Timothy Hopkins	investigate patient-specific inflammatory crosstalk in osteoarthritis		
			The development of a liver-kidney two-organ-chip model for toxicity		
222	234	Lenya de Brouwer	testing		
224	562		Development of a multi-organ microphysiological system for preclinical		
224	563	Mandy Petzold	characterization of radiopharmaceutical compounds Development of a modular MPS capable of evaluating multi-organ		
226	684	Yasuhiro Nakamura	coordination and its evaluation method		
220	004	Tasami o Nakamara	Development of a high-throughput, compartmentalized multi-organoid		
228	710	Jose Jimenez	culture system for drug screening and toxicity testing		
			Development of in vivo mimicking ECM gels and multi-organ connected		
230	938	Mitsumasa Taguchi	MPS chips.		
222	0.40	A'l a BA'	Development of a gut-liver co-culture system to predict drug		
232	948	Aiko Mizuno	absorption and metabolism using the BioStellar™ Plate A novel MNCNT-based organ-on-a-chip designed for neurite alignment		
234	960	Noo Li Jeon	and modeling of sensory neuron–MSC Interactions		
	Track 1: MPS Development and Results Processing Theme 1.3: AI co-pilot for MPS				
			Real-time Al-powered analysis of cardiac spheroid beating dynamics		
236	208	Zhongze Gu	for drug testing		
			Drug discovery for idiopathic pulmonary fibrosis: Integrating a		
220	270	Altal A a a d	generative AI drug repurposing model and a microphysiological high-		
238	270	Nicky Anvari	throughput model Deep learning assisted organ-on-chip platform for the analysis of		
240	423	Michele D'Orazio	breast-to-bone metastasis		
			Development of an Al-based target identification model for		
242	569	Andrew LaCroix	anticonvulsant drug discovery		
			Towards robust bubble detection in diverse microphysiological systems		
244	610	Nadezhda Koriakina	by machine learning		

Non-invasive, cross-organ viability assessment of 3D spher deep learning for toxicity screening Track 1: MPS Development and Results Processing Theme 1.4: Sensors and real-time monitoring Enhancing neurodegenerative disease research with brainand advanced biosensor technologies Porous membrane electrode devices for in situ electrocher measurement of alkaline phosphatase activity in engineere models A dual-sensing microfluidic chip for simultaneous impedant morphological analysis in MPS	
Track 1: MPS Development and Results Processing Theme 1.4: Sensors and real-time monitoring Enhancing neurodegenerative disease research with brainand advanced biosensor technologies Porous membrane electrode devices for in situ electrocher measurement of alkaline phosphatase activity in engineere models A dual-sensing microfluidic chip for simultaneous impedan	on-a-chip
Theme 1.4: Sensors and real-time monitoring Enhancing neurodegenerative disease research with brainand advanced biosensor technologies Porous membrane electrode devices for in situ electrocher measurement of alkaline phosphatase activity in engineere models A dual-sensing microfluidic chip for simultaneous impedan	·on-a-chip
Enhancing neurodegenerative disease research with brain- and advanced biosensor technologies Porous membrane electrode devices for in situ electrocher measurement of alkaline phosphatase activity in engineere models A dual-sensing microfluidic chip for simultaneous impedan	on-a-chip
248 51 Anna Panteleeva and advanced biosensor technologies Porous membrane electrode devices for in situ electrocher measurement of alkaline phosphatase activity in engineere models A dual-sensing microfluidic chip for simultaneous impedan	-on-a-cmp
Porous membrane electrode devices for in situ electrocher measurement of alkaline phosphatase activity in engineere models A dual-sensing microfluidic chip for simultaneous impedan	
measurement of alkaline phosphatase activity in engineers models A dual-sensing microfluidic chip for simultaneous impedan	mical
250 77 Yoshinobu Utagawa models A dual-sensing microfluidic chip for simultaneous impedan	
A dual-sensing microfluidic chip for simultaneous impedan	su gut
1 · · · · · · · · · · · · · · · · · · ·	oco and
232 83 Marie Ficienci Steger Fore Inforphological analysis in Wil 3	ice and
1	
254 91 Terrence Roh Integration of label-free imaging for quantifying biological	responses
	5 1
Fluorescent nanodiamonds-based thermometry using micr	
256 100 Keita Saikawa guided assembly for temperature mapping on a cell culture	
258 101 Lilia Bató Real-time cell viability testing in a microfluidic system by E	
Real-time oxygen saturation measurement in blood-filled v	/ascular
260 110 Hendrik Erfurth structures	
High-resolution 3D imaging of microphysiological systems	using
262 145 Noriko Matsumoto advanced confocal microscopy techniques	
	CI · I
Assessment of tumor drug function through interstitial tun	
264 159 Kang-Hsu Liu using a vascularized patient-derived xenograft tumor mode	
A bio-impedance measuring platform with a full-spectrum	
measurement head and an adaptable lid for well plate forr 266 229 Shaginth Sivakumar monitor barrier-on-chip	nat to
266 229 Shaginth Sivakumar monitor barrier-on-chip StretchView: an organotypic system for quantitative video	microscopy
268 245 David Jaworski of dynamic cellular processes under cyclic stretch	Пістозсору
Wrinkled electrodes on PDMS pillars for detecting micromo	ovements
270 267 Liubov Bakhchova during 3D cardiac microtissue contraction	Svements
Fluorescent imaging of tissue and effluent using a novel 3D	nrinted bio-
272 268 Lydia Baldwin microfluidic device	printed 510
Multi-organ MPS system simulating ARDS-related organ in	iury and
274 304 Zilin Zhang development of multi-scale real-time detection methodolo	
Plasmonic resonance sensing platform for antifibrotic drug	· ·
276 317 Martín Ruiz-Gutiérrez using a Duchenne muscular dystrophy microphysiological s	_
Versatile sensor platform for MPS setup integration and re	
278 328 Laura van Smeden multiplexed monitoring	
Non-contact monolayer confluence tracking in microphysic	ological
280 345 Tim Hosman systems using dielectric spectroscopy	
Design of a graphene-based biosensor for the detection of	therapeutic
282 369 Álvaro Nicolás molecule passage through the blood-brain barrier	
Visible light optical coherence tomography for live-cell and	l label-free
284 383 Devin Veerman assessment of vascular health in a vessel-on-chip	
Towards miniaturized and transparent IPMC actuators for	organ-on-
286 388 Alireza Tajeddin chip platforms	
Real-time in-line monitoring of cellular metabolic activity in	n an
288 399 Bjorn de Wagenaar intestinal cells-on-chip model	
Self-folding 2LDMs-based interfaces for long-term recording	igs of 3D
290 402 Tetsuhiko Teshima tissue dynamics	
An open-source drug testing and temperature control exte	nsion for
292 403 Benedikt Maurer neuronal networks on high-density microelectrode arrays	

find	Abstract Number	Presenter	Title
294	404	Sophie Materne	On-chip tracking of human mesenchymal stem cell gene expression to explore mechanically driven chondrogenesis
254	707	Sopriic Waterrie	Microfluidic tissue barrier-on-chip with integrated microelectrodes and
296	429	Pratik Tawade	ultra-thin microporous membrane
230	723	Tracik rawade	Integrated organ-on-chip systems for immuno-oncology and infectious
298	432	Katharina Hennig	disease research
			Fast and flexible live-cell imaging of 2D and 3D cultures in microfluidic
300	438	Maud Vermeulen	chips
			Towards automated small-sample drug metabolism analysis for
302	475	Frøydis Sved Skottvoll	microphysiological systems using electromembrane extraction
304	480	Babu L. P. Meenajetan	μΕΙΤ Cube: An in-depth 3D imaging platform for organoid models
		·	A modular, automated setup for metabolic monitoring of skin-on-chip
306	482	Claudia Gärtner	models with integrated biosensors
			Real-time oxygen monitoring in a 3D-printed organ-on-chip using
308	489	Alessandro Polini	optical sensors
			3D blood-brain barrier on-chip with integrated sensing using silicon
310	491	Daniel Vera	microfabrication
			Spatially controlled patterning of aptamers in hydrogels for
312	522	Annina Stuber	microphysiological systems
			A mini-incubator for live-cell time-lapse imaging using holographic
314	523	Vincent Haguet	microscopy
			Use of high-speed multi-camera array microscopy and development of
			a novel pipeline for high-throughput analysis of immune cell activity
316	528	Gregor Horstmeyer	and immune cell/cancer spheroid interactions
			A novel silicon porous MEA for real-time, high-resolution monitoring of
318	549	Ina Carmans	vascular dynamics
			A photonic sensor-integrated microphysiological system for
			simultaneous measurement of apical and basal bioanalyte secretion in
320	601	Katherine Daniel	a vascular sepsis model
			Combined microfluidic and multielectrode array platform for
322	608	Victor Krajka	compartmentalized neuronal network studies
			Enhancing organ-on-chip platforms with giant magneto-resistive flow
324	626	Emmie J.D. Schoutens	sensors
			High-throughput oxygen consumption measurements in self-organizing
326	632	Maria Tenje	3D models under tuneable chemical environments
			Glucose sensor characterisation in culture medium and under flow for
328	649	Killian Montiège	organ-on-chip instrumentation
			Development of gut microphysiological system with integrating trans-
			epithelial electrical resistance measurement function for intestine
330	679	Hiroshi Kimura	barrier study
			PDMS-free intestine-on-chip with real-time oxygen monitoring for high-
332	687	Sophie Besser	throughput studies
			Optical biosensors enabling glucose and lactate monitoring in
334	705	Iga Malicka	microphysiological systems
336	712	Lisa Muiznieks	Automated cell perfusion for 3D cell culture and tissue engineering
			A 3D SVZonChip model for in vitro mimicry of the subventricular zone
338	722	Ioannis Angelopoulos	neural stem cell niche
			Multi-parametric non-invasive metabolic monitoring of adipose tissue-
340	738	Helena Castañé	on-chip
			A platform for the mechanical and electrical characterization of 3D
342	760	Alexia Bailleul	tissue engineered skeletal muscles
			Shining a light on osteoarthritis: Bioluminescence meets organ-on-chip
344	764	Shreya Gudi	for rapid treatment screening
			Temperature controlled acoustofluidic separation and functional
346	806	Nader Amanatchi	characterization of β -cells from an islet-on-a-chip device

find	Abstract Number	Presenter	Title
			An integrated heart-on-a-chip platform for cardiac contraction, calcium
348	906	Yijun Guo	imaging, and electrophysiology
			Development of high-throughput, real-time sensing of reactive oxygen
468	604	Jonathan Coppeta	species for lung-immune microphysiological systems
		Track 1: MPS Develo	opment and Results Processing
	The	eme 1.5: Leveraging physiology v	with vascularization and immune-competence
350	73	Emma Streutker	A fibrosis-on-chip model to study systemic sclerosis
352	84	Daphne Panocha	A human immunocompetent 3D lymph node model using pre-printed scaffolds
			Biomimetic microtopographical mesh for guided integration of soft
354	128	Elisabetta Avizzano	hydrogels in miniaturized intestinal tissue models
356	134	Soumya Mitra	Imaging techniques and analysis for 3D complex in vitro models
358	152	Negar Vahdani	Physiologically relevant liver microvasculature in vitro model for the hepatocyte spheroid vascularization
		30	Combination of electrospinning and a cell-laden collagen hydrogel as a
			first step towards the generation of fully perfusable microphysiological
360	171	Daria Wehlage	systems
			Optimization of an alveolus-on-chip model for personalized drug
362	186	Hristina Koceva	screening against super-infections in viral pneumonia
			A microvascularized endometriosis lesion model for evaluating efficacy
364	206	Lauren Pruett	of inflammation-targeting therapies
			Encapsulation of micro-engineered heart tissue in a bioactive hydrogel
366	209	Tomas van Dorp	to create a perfusable heart-on-chip system
			Microvascular engineering for multilayered vessel-on-chip
368	279	Johannes Fehr	development
			Brain organoids go vascular: Towards a reproducible protocol to model
370	291	Josep Fumadó Navarro	the cerebrovascular space
			VasQ Kit: A robust solution to incorporate 3D perfusable microvascular
372	306	Jose Antonio Reales-Calderon	networks in microphysiological systems (MPS)
			Vascularised gut-on-a-chip model for investigating microbiome
374	310	Vendija Kozlova	modulation and dietary supplement efficacy
			The pumpless recirculating organ-on-chip platform: a versatile
376	380	Mathias Busek	platform to study tissue-immune interaction
			Modelling human vascular regulation of trauma response in post-
378	394	Emely Rosenow	traumatic osteoarthritis
200	207		The first-in-class vascularized gut-brain-axis-on-chip platform for
380	397	Ralfs Buks	accelerating research and drug development
202	405	Elia Pennati	A mechanically active biomimetic bone marrow-on-chip as in vitro model of the bone marrow niches
382	405	Ella Pellilati	
384	408	Robert Gaibler	Recirculation of leukocytes supports transmigration studies in a vascular MPS model
364	408	Robert Gaiblei	Development of a dual-flow 2-photon 3D-printed hydrogel-based
386	439	Astrid Olivefors	vessel-on-chip model
388	517	Katarzyna Rojek	Magnetically-assembled arrays of microvascular networks-on-chip
330	31,	Natur Zyriu Nojek	Precisely modeling nutrient exchange and immune infiltration at the
390	553	Qianru Jin	adipocyte-endothelial interface for obesity research
			Microfluidic platform for vascularized tissue models with integrated
392	558	Matthew Johnson	micropumps and back-pressure regulators
			A microfluidic scaffold designed to support the development of
			perfused vascularized tissue models in hydrogel matrix on the
394	559	Priyatanu Roy	Physiomimix™ platform
			Integrating microfluidics and agent-based simulations to model
396	727	Loïc Comeliau	lymphatic capillary remodeling
330	121	Loic Comenau	hymphatic capillary remodelling

find	Abstract Number	Presenter	Title
398	751	Alice Salvadori	High-definition laser patterning of microvasculature for controlled liver- on-chip vascularization
336	731		
			ppment and Results Processing
		Theme 1.7	Development of a 3D human organotypic spine unit model for the
400	769	Viviana Ippolito	study of degenerative disc disease
400	709	Viviaria ippolito	Exploring the role of Piezo1 and YAP in calcific aortic valve disease in a
402	821	Kartik Balachandran	novel 3D dynamic valve-on-chip system
402	021	Raftik Balacilariaran	The impact of physiological cyclic stretching on barrier integrity of
			airway and pulmonary microvascular endothelial cells in healthy and
404	966	Lucia Aversa	COPD models: a lung on-a-chip approach
404	300		
			cal Research and Disease Modelling
		Theme 2.1: Metabolic di	sorders and endocrine dysfunction
			Biofabricating vascularized liver models: Advancing long-term primary
406	972	Vivien Priebe	hepatocyte cultivation
			Modular and versatile three-dimensional cardiac chamber platform for
408	23	Jana Hecking	volumetric performance measurements
			Organ-on-a-chip modelling of early atherosclerosis events reveals
410	49	Matthew Stevenson	reduced activity of e-vapour products compared to cigarettes
412	103	Leonie P. I. Klintz	Media-dependent differentiation in novel nasal cell line CI-pNaEC
			Heart-on-chip: Advancing 3D myocardial tissue models for fibrotic
414	185	Maria Jordan	disease progression and drug discovery
			Microfluidic 3D vessel-on-chip to model pulmonary arterial
416	199	DeDe Kwun Wai Man	hypertension (PAH)
			Effect of dynamic preload conditioning on human engineered
418	201	Mariel Cano-Jorge	ventricles
			A biomechanical approach to compensate for the stiffness difference
			between hard polymers and cardiac tissue for developing an hiPSC
420	230	Kuan-Wei Chen	cardiac model for drug screening
			Advancing cardiovascular drug discovery with iPSC-derived 3D cardiac
422	336	Benoit Samson-Couterie	microtissues in high-throughput screening
			An in vitro microfluidic model of the human cardiovascular system for
424	376	Daniel Bramham	use in pharmaceutical screening applications
			An automated high-throughput 3D engineered heart tissue platform
426	378	Ozan Karaman	for disease modeling and drug discovery
			In vitro microfluidic breathomics: Isolated epithelial and whole patient
428	476	Brady Rae	breath in COPD
			Cell composition optimization in miniaturized human 3D cardiac strips:
430	478	Manuel Sambrotta	a key step towards its use in high-throughput screening
422	400	Ni sa tiala	Advanced patient-derived lung-on-chip models for enabling replication
432	488	Nina Hobi	of the human pulmonary microenvironment
42.4	524		Engineering 3D bio-printed lung-on-a-dish platform to investigate
434	531	Nipun Jain	pulmonary fibrosis
			Modeling laminopathy-driven cardiac dysfunction under
426	F90	Potting Lielsies	microphysiological conditions: Insights from LMNA L35P mutant hiPSC-
436	580	Bettina Lickiss	derived cardiomyocytes
438	615	Kaisla Walls	3D imaging of engineered heart tissues using inverted selective plane
438	012	Naisia Walis	illumination microscopy Development of pathological heart-on-chip models to advance
			extracellular vesicle-based therapy for cardiac fibrosis and myocardial
440	623	Mattia Ballerini	
440	025	iviatua pallettill	injury Versatile multicellular human cardiac organoids as in vitro platform for
442	627	Elisa Mohr	modeling cardiovascular diseases
444	027	Iriisa ivioiii	וווסטבווון במוטוטימטבטומו טוטבמטבט

6 . 1	Abstract				
find	Number	Presenter	Title		
			An alveolar-capillary barrier-on-chip model for investigating		
			atmospheric pollutant absorption and lung health in a 3D air-liquid		
444	630	Bianca Aterini	interface system		
			Patient-specific vessel-on-a-chip model to study endothelial cell-		
			vascular smooth muscle cell crosstalk within the abdominal aortic		
446	690	Philipp Hauger	aneurysm wall		
			Development of a mechanically active in vitro model of idiopathic		
448	708	Teresa Lucifora	pulmonary fibrosis in a lung-on-a-chip platform		
			Development of a physiologically-relevant breathing nasal airway-on-		
450	715	Adrienne Vaughan	chip to study particulate matter exposure		
			Integration of flexible collagen-elastin membrane for mimicking		
			breathing mechanisms in alveolus-on-chip models to study		
452	721	Mona Amiratashani	Staphylococcus aureus infection		
			Development of a small airways lung-on-chip model with mechanical		
454	783	Marco Mondini	stimulation to mimic COPD pathophysiology		
	Breathable in vitro lung model on a stretchable ultra-thin hydrogel				
456	792	Sungjune Jung	membrane		
			A strain-controlled artery-on-a-chip platform for vascular biomechanics		
458	862	Tatsuya Matsubara	research		
460	879	Dmitriy Krepkiy	Tissue chips in space: Modeling Human Disease States in Microgravity.		
			A cutting-edge human iPSC-derived neurocardiac platform for in vitro		
462	889	Giada Cattelan	modeling of the heart-brain axis.		
.02	- 303	Clada Catteran	Towards a Perfusable Artery-On-Chip Model Replicating Human		
464	912	Lorraine Couteau-brisset	Atherosclerosis Development		
707	Track 2: MPS for Biomedical Research and Disease Modelling				
			S for cancer precision medicine		
	T	Theme 2.4. MP.	Organ-on-chip platforms for evaluating fasting-driven therapeutic		
466	473	Silvia Scaglione	responses in dynamic 3D tumor models		
400	4/3	Silvia Scaglione	responses in dynamic 3D tumor models		