

Mon 20 Sept, 2021			
Start	End	Speaker Name Institution	Session Title
12:45 PM	1:00 PM	Music by Michael Nickel	
1:00 PM	1:15 PM	Welcome Speech	Lorna Moll, DLR-PT Matthia A. Karreman, e:Med PK Spokesperson
1:15 PM	2:45 PM	Technologies in Systems Medicine Chair: Simon Haas, Emanuel Schwarz	
1:15 PM	1:45 PM	Philip Rosenstiel UKSH Kiel	<i>Systems Medicine of Chronic Inflammatory Diseases – from cellular trajectories to clinical predictions</i>
1:45 PM	2:00 PM	Dominik Vonficht DKFZ Heidelberg	<i>Single-cell proteo-genomic reference maps of the hematopoietic system enable the purification and massive of precisely defined cell states</i>
2:00 PM	2:15 PM	Nadine Sarah Schaad Hannover Medical School	<i>Translating the Spatial Inflammatory Microenvironment in Digital Biopsy</i>
2:15 PM	2:30 PM	Agustin Rodriguez DKFZ Heidelberg	<i>Personalized Treatment of Anemia Associated to Chronic Kidney Disease</i>
2:30 PM	2:45 PM	Panel discussion	
2:45 PM	3:00 PM	Break	
3:00 PM	4:15 PM	Bioinformatic Approaches and Machine Learning in Systems Medicine Chair: Silke Szymczak, Jan Hasenauer	
3:00 PM	3:15 PM	Armin Rauschenberger University of Luxembourg	<i>Predicting correlated outcomes from molecular data</i>
3:15 PM	3:30 PM	Zakaria Louadi TU Munich & University of Hamburg	<i>Enrichment of Alternative Splicing Events Identifies Biomarkers for Multiple Sclerosis and Dilated Cardiomyopathy</i>
3:30 PM	3:45 PM	Vladimir Belov UMG Göttingen	<i>ENIGMA MDD: Basic benchmark classification of MDD and HC using FreeSurfer's output of structural MRI in</i>
3:45 PM	4:00 PM	Andreas Kühnapfel University Leipzig	<i>Genetic regulation of cytokine response in patients with acute community-acquired pneumonia</i>
4:00 PM	4:15 PM	Panel discussion	
4:15 PM	4:30 PM	Break	
Music by Michael Nickel			
4:30 PM	5:15 PM	Networking Fonds Alliances Chair: Rainer Spanagel	
4:30 PM	4:40 PM	Jan Hasenauer University Bonn	<i>INCOME - Integrative, collaborative modelling in systems medicin</i>
4:40 PM	4:50 PM	Lutz Brusch TU Dresden	<i>MultiCellML - Networking through exchange of multicellular computational models</i>
4:50 PM	5:00 PM	Julien Gagneur TU Munich	<i>AbCD-Net - Aberrant transcriptome influencing risk of common diseases</i>
5:00 PM	5:15 PM	Panel discussion	
5:15 PM		Open-ended Networking	

		Tue 21 Sept, 2021	
Start	End		
11:00 AM	12:15 PM	Poster Session A	
			Chair: Helena Zacharias
		Topics	<i>Technologies in Systems Medicine, Bioinformatic Approaches, Machine Learning, Multi Omics in Systems Medicine</i>
11:00 AM	11:30 AM	Poster Flash Talks	<i>10 Talks à 2 min</i>
11:30 AM	12:15 PM	Poster Exhibition	
12:40 PM	12:55 PM	Sponsor Lunch Illumina, Sham Naal (15 min)	
1:00 PM	2:30 PM	Multi Omics in Systems Medicine	
			Chair: Maria Fedorova, Steffen Just
1:00 PM	1:30 PM	Heribert Schunkert German Heart Centre Munich & TU Munich	<i>Keynote: Integrating genetics in the assessment for coronary disease</i>
1:30 PM	1:45 PM	Neha Mishra IKMB, Kiel University	<i>Longitudinal multi-omics analysis identifies early blood-based predictors of anti-TNF therapy response in inflammatory bowel disease</i>
1:45 PM	2:00 PM	Paulina Richter-Pechanska Charité Berlin	<i>A senescence-focused multi-omics approach unravels complexities of treatment resistance in B-cell lymphomas</i>
2:00 PM	2:15 PM	Matthias Heinig Helmholtz Zentrum Munich	<i>Tissue-specific multi-omics analysis of atrial fibrillation</i>
2:15 PM	2:30 PM	Panel Discussion	
2:30 PM	2:45 PM	Break	
2:45 PM	3:45 PM	Modelling in Systems Medicine	
			Chair: Jana Wolf, Jan Baumbach
2:45 PM	3:00 PM	Emad Alamoudi University Bonn	<i>FitMultiCell: Simulating and parameterizing computational models of multi-cellular processes</i>
3:00 PM	3:15 PM	Gavin Fullstone University Stuttgart	<i>In silico-guided optimisation of a CNS-targeted TNFR2-agonist for treatment of neurodegenerative diseases</i>
3:15 PM	3:30 PM	Fabian Konrath MDC Berlin	<i>A systematic approach to decipher crosstalk in the p53 signaling pathway using single cell dynamics</i>
3:30 PM	3:45 PM	Panel Discussion	
		Music by Michael Nickel	
3:45 PM	4:00 PM	Break	
4:00 PM	4:45 PM	Systems Medicine of COVID-19	
			Chair: Rainer Spanagel, Markus Scholten
4:00 PM	4:15 PM	Marion M. Friske ZI Mannheim	<i>Chronic ethanol intake influences gene expression of SARS-CoV2 infection relevant genes in an organ-specific manner</i>
4:15 PM	4:30 PM	Chit Tong Lio TU Munich	<i>Systematic Analysis of Alternative Splicing in Time Course Data of SARS-Cov2 infection development using Splicing Analysis</i>
4:30 PM	4:45 PM	Panel Discussion	
4:45 PM	5:00 PM	Break	
5:00 PM	5:15 PM	e:Med Projekt Groups - Impulse Talk	
			Chair: Matthia A. Karremans
5:15 PM	5:45 PM	e:Med Project Groups - Parallel Meetings	
5:45 PM		Open-ended Networking	

Start	End	Wed 22 Sept, 2021	
11:00 AM	12:15 PM	Poster Session B Chair: Simon Haas	
		Topics	<i>Modelling in Systems Medicine, Systems Medicine of COVID-19, Tumor Heterogeneity, Translational Systems Medicine</i>
11:00 AM	11:30 AM	Poster Flash Talks (10 talks à 2 min)	
11:30 AM	12:15 PM	Poster Exhibition	
12:40 PM	12:55 PM	Sponsor Lunch Life & Brain Peter Krawitz (15 min)	
1:00 PM	2:15 PM	Systems Medicine of Tumor Heterogeneity Chair: Stefan Florian, Matthia A. Karreman	
1:00 PM	1:30 PM	Julie George University of Cologne	<i>Keynote: Molecular Landscape of Lung Tumors</i>
1:30 PM	1:45 PM	Jana Wolf MDC Berlin	<i>Patient-specific modeling of diffuse-large B cell lymphoma allows individualised target predictions</i>
1:45 PM	2:00 PM	Dražen Papić Charité Berlin	<i>Mapping changes in Triple Negative Breast Cancer in response to neoadjuvant chemotherapy at protein, transcriptome and genomic level</i>
2:00 PM	2:15 PM	Panel discussion	
		Break	
2:30 PM	3:30 PM	Translational Systems Medicine Chair: Julie George, Samuel Huber	
2:30 PM	2:45 PM	Maurice Reimann Charité Berlin	<i>A novel senolytic compound preventing Ras-driven tumorigenesis</i>
2:45 PM	3:00 PM	Matthia A. Karreman DKFZ, NCT, Univ. Hospital, Heidelberg	<i>In vivo validation of therapeutic targets that inhibit melanoma brain metastatic growth</i>
3:00 PM	3:15 PM	Konrad Aden University Hospital Kiel & Luxembourg Institute of Health	<i>Multi-omics analysis identifies JAK-STAT pathway as crucial regulator tryptophan metabolism in IBD</i>
3:15 PM	3:30 PM	Panel discussion	
		Break	
3:45 PM	4:30 PM	Symposium Future of Systems Medicine Community Brainstorm Session Chair: Philip Rosenstiel, Rainer Spanagel	
		Music by Michael Nickel	
4:45 PM	5:00 PM	Closing Remarks & Award Ceremony e:Med Poster Awards 2021, Creative Award Chair: Rainer Spanagel	
5:00 PM		Open-ended Networking	