Start	End	**Mon 20 Sept, 2021**	
		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	*Systems Medicine of Chronic Inflammatory Diseases – from cellular trajectories to clinical predictions*
1:45 PM	2:00 PM	**Dominik Vonficht** DKFZ Heidelberg	*Single-cell proteo-genomic reference maps of the hematopoietic system enable the purification and massive profiling of precisely defined cell states*
2:00 PM	2:15 PM	**Nadine Sarah Schaadt** Hannover Medical School	*Translating the Spatial Inflammatory Microenvironment in Digital Biopsy*
2:15 PM	2:30 PM	**Agustin Rodriguez** DKFZ Heidelberg	*Personalized Treatment of Anemia Associated to Chronic Kidney Disease*
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	*Predicting correlated outcomes from molecular data*
3:15 PM	3:30 PM	**Zakaria Louadi** TU Munich & University of Hamburg	*Enrichment of Alternative Splicing Events Identifies Biomarkers for Multiple Sclerosis and Dilated Cardiomyopathy*
3:30 PM	3:45 PM	**Vladimir Belov** UMG Göttingen	*ENIGMA MDD: Basic benchmark classification of MDD and HC using FreeSurfer's output of structural MRI information*
3:45 PM	4:00 PM	**Andreas Kühnapfel** University Leipzig	*Genetic regulation of cytokine response in patients with acute community-acquired pneumonia*
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	*INCOME - Integrative, collaborative modelling in systems medizin*
4:40 PM	4:50 PM	**Lutz Brusch** TU Dresden	*MultiCellML - Networking through exchange of multicellular computational models*
4:50 PM	5:00 PM	**Julien Gagneur** TU Munich	*AbCD-Net - Aberrant transcriptome influencing risk of common diseases*
5:00 PM	5:15 PM	**Panel discussion**	
5:15 PM		**Open-ended Networking**	

Start	End	**Tue 21 Sept, 2021**	
11:00 AM	12:15 PM	**Poster Session A**	
			Chair: Helena Zacharias
		Topics	*Technologies in Systems Medicine, Bioinformatic Approaches, Machine Learning, Multi Omics in Systems Medicine*
11:00 AM	11:30 AM	**Poster Flash Talks**	*10 Talks à 2 min*
11:30 AM	12:15 PM	**Poster Exhibition**	
		Sponsor Lunch	
12:40 PM	12:55 PM	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	*Keynote: Integrating genetics in the assessment for coronary disease*
1:30 PM	1:45 PM	**Neha Mishra** IKMB, Kiel University	*Longitudinal multi-omics analysis identifies early blood-based predictors of anti-TNF therapy response in inflammatory bowel disease*
1:45 PM	2:00 PM	**Paulina Richter-Pechanska** Charité Berlin	*A senescence-focused multi-omics approach unravels complexities of treatment resistance in B-cell lymphomas*
2:00 PM	2:15 PM	**Matthias Heinig** Helmholtz Zentrum Munich	*Tissue-specific multi-omics analysis of atrial fibrillation*
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	*FitMultiCell: Simulating and parameterizing computational models of multi-cellular processes*
3:00 PM	3:15 PM	**Gavin Fullstone** University Stuttgart	*In silico-guided optimisation of a CNS-targeted TNFR2-agonist for treatment of neurodegenerative diseases*
3:15 PM	3:30 PM	**Fabian Konrath** MDC Berlin	*A systematic approach to decipher crosstalk in the p53 signaling pathway using single cell dynamics*
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 Scholz
4:00 PM	4:15 PM	**Marion M. Friske** ZI Mannheim	*Chronic ethanol intake influences gene expression of SARS-CoV2 infection relevant genes in an organ-specific manner*

Start	End		
4:15 PM	4:30 PM	**Chit Tong Lio** TU Munich	*Systematic Analysis of Alternative Splicing in Time Course Data of SARS-Cov2 infection development using Spycone*
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. Karreman
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	*Modelling in Systems Medicine, Systems Medicine of COVID-19, Tumor Heterogeneity, Translational Systems Medicine*
11:00 AM	11:30 AM	**Poster Flash Talks**	*(10 talks à 2 min)*
11:30 AM	12:15 PM	**Poster Exhibition**	
		Sponsor Lunch	
12:40 PM	12:55 PM	Life & Brain Peter Krawitz (15 min)	
1:00 PM	2:30 PM	Systems Medicine of Tumor Heterogeneity	
			Chair: Stefan Florian, Matthia A. Karreman
1:00 PM	1:30 PM	**Julie George** University of Cologne	*Keynote: Molecular Landscape of Lung Tumors*
1:30 PM	1:45 PM	**Jana Wolf** MDC Berlin	*Patient-specific modeling of diffuse-large B cell lymphoma allows individualised target predictions*
1:45 PM	2:00 PM	**Dražen Papić** Charité Berlin	*Mapping changes in Triple Negative Breast Cancer in response to neoadjuvant chemotherapy at protein, transcriptome and genomic level*
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	*A novel senolytic compound preventing Ras-driven tumorigenesis*
2:45 PM	3:00 PM	**Matthia A. Karreman** DKFZ, NCT, Univ. Hospital, Heidelberg	*In vivo validation of therapeutic targets that inhibit melanoma brain metastatic growth*
3:00 PM	3:15 PM	**Konrad Aden** University Hospital Kiel & Luxembourg Institute of Health	*Multi-omics analysis identifies JAK-STAT pathway as crucial regulator tryptophan metabolism in IBD*
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	