	f Seminar and Conference (1	(BIS), ETH Zurich, Switzerland, Sept 12 of 3 days): Organoids, Organ-on-Chip, La	, 2022 ab-on-Chip, 3D Imaging, Verification and
Time slots	Topic / Titles (to be confirmed/adjusted)	Lecturers * confirmed speaker at BIC- 2022 Confirmed BIS Lecturer	Chairs Confirmed Chairs (green)
09:00 - 09:10	Welcome & Introduction	Barbara Rothen-Rutishauser , Adolphe Merkle Institute, University of Fribourg, CH	
Opportu	unities and limitations of <i>in vi</i>	tro – in vivo assays	
09:10 - 09:50	Lecture 1 (Intro, Overview) 21 st Century Cell Culture for 21 st Century Research	Thomas Hartung*, Johns Hopkins Bloomberg School of Public Health, Baltimore, US	Barbara Rothen-Ruthishauser, Adolphe Merkle Institute, University of Fribourg, CH
09:50 - 10:20	Pro Con Debate "In vitro assays will eventually replace all academic and industrial in vivo (animal) tests for drug development".	Pro: Ivan Martin*, University of Basel, CH Con: David Grainger*, The University of Utah, US	Markus Rimann, ZHAW, TEDD-Network, CH
10:20 - 10:50	Break		
Tissue e	engineering and biomaterials		
10.50 - 11:30	Lecture 2 Title	Francesca Santoro*, RWTH Aachen and Forschungszentrum Juelich, DE	Janos Vörös, Dep. of Inform.Technol. Electrical Eng., ETH Zurich, CH
11:30 - 12:10	Lecture 3 Title	Andrés Garcia*, School of Mechanical Engineering, Georgia Tech, US	Olivier Frey , Head of Technologies & Platforms and Project Manager of Microphysiological Systems, InSphero, Zurich, CH
12:10 - 13:40	Lunch and More – Ask Anything	 H. Michelle Grandin, Scientific Consultant BioMaterials & Medical Devices, Instructor at UCSD Extension, US Sally McArthur*, Faculty of Science, Engineering & Technology, Swinburne University of Technology, Melbourne, AU 	 Two senior, experienced persons at each table with (young) participants to ask any question (e.g., related to career planning, publication, collaborations, funding, life/work balance, etc.) Details: Appendix 1 Need for a larger number of experienced persons

Characterisation in 3D and organoid technology				
13:40 - 14:20	Lecture 4 Title	Sally McArthur*, Faculty of Science, Engineering & Technology, Swinburne University of Technology, Melbourne, AU	David Grainger*, The University of Utah, US	
14:20 - 15:00	Lecture 5 Title	TBD	Catarina Brito*, Advanced Cell Models Lab, Animal Cell Technology Unit, iBET & ITQB-NOVA, Lisboa, PT	
15:00 - 15.30	Round table "How will organoid technology shape our societal future"	Sally McArthur*, Adrian Roth*, Janos Vörös, Catarina Brito*	Falko Schlottig, FHNW, Basel, CH	
15:30 - 16:00	Break			
Cell ana 16:00 - 16:40	Lecture 6 Development of Standard Operating Protocols (SOPs) for Pre-Validation of in vitro Assays	ndard protocols Barbara Rothen-Rutishauser, Adolphe Merkle Institute, University of Fribourg, CH	Cornelia Kasper [*] , BOKU, Department for Biotechnology, University of Natural Resources and Life Sciences, Vienna (BOKU), AU	
16:40- 17:10	Lecture 7 <i>Comparable in vitro</i> <i>measurements</i>	Matthias Rösslein, EMPA, St Gallen, CH	Núria Montserrat Pulido*, Institute for Bioengineering of Catalonia, Barcelona, SP	
17:10 - 18:10	Lost in Translation: <i>hurdles</i> <i>and opportunities in the</i> <i>translation of scientific</i> <i>discovery to clinics and</i> <i>market - including a pitch</i> <i>development workshop</i>	Eliav Haskal, Innovation Manager, NCCR Bio-Inspired Materials, University of Fribourg, Fribourg, CH Sally McArthur*, Faculty of Science, Engineering & Technology, Swinburne University of Technology, Melbourne, AU	Details: Appendix 2	
	WrapUp	Barbara Rothen-Rutishauser*, Adolphe Merkle Institute, University of Fribourg, CH Markus Rimann, ZHAW, TEDD- Network, CH		