

Scientific Programme - Monday, August 31 - morning

8.30	9.30	Registration + welcome coffee	Building i21, Cafeteria	
		Presentations	Building i23, Aula	Company / Uni
9.30	9.45	Welcome address	S. Schmid, S. Crelier, A. Kuhn	HES-SO Valais
9.45	10.15	KEYNOTE SPEAKER: Biotechnet switzerland - Personal Impressions of a Successful Network	Daniel Gyga	SATW (FHNW)
Biotechnology and Bioprocesses				
		Chairman: Simon Crelier	Speaker	Company / Uni
10.15	10.45	Right the first time	Wolfgang Minas	Biotech Concepts
10.45	11.15	<i>Break - Cafeteria mezzanine</i>		
11.15	11.45	On a closer look into bioreactors, getting more information from in situ microscopy	Juan Limon-Pettersen	ZHAW
11.45	12.15	Enhancing bioprocess understanding: Novel sensing technologies for dissolved gases	Caspar Demuth	ZHAW
12.15	12.45	Continuous Purification of Adeno Associated Viruses	Julia Müller	FHNW
12.45	13.00	<i>Transfer to Cafeteria</i>		
12.45	13.00	Introduction of the student challenge (students only)		
13.00	14.00	<i>Lunch</i>		

Scientific Programme - Monday, August 31 - afternoon**Tools in biotechnology**

Chairman: Nils Hanik		Speaker	Company / Uni
14.00	14.30	Novel automated single-use bioreactor for one step seed train production	François Carruzzo Valentin Jossen Bioscibex, HES-SO Valais
14.30	15.00	Illuminating Bioprocesses: Using Light as a Tool in Biotechnology	Harald Schöbel MCInnsbruck
15.00	15.30	The zebrafish model in red biotechnology research	Vincenzo Cavalieri Palermo
15.30	16.00	In vitro models for Alzheimer's disease and neurodegeneration	Laura Suter-Dick FHNW
16.00	16.30	<i>Break - Cafeteria mezzanine</i>	

SPONSORS' INSIGHTS

Chairman: Matthias Rüdert		Speaker	Company / Uni
16.30	16.45	BioArk, The Ark and Life Sciences in Valais	Massimo Nobile BioArk
16.45	17.00	Intensifying the mAb capture step for cost-efficient processing	Marc Noverraz Cytiva
17.00	17.15	Introducing Incyte	Bertrand Nicolet Incyte
17.15	17.30	Theory Meets Reality: Practical Insights from Industrial Engineering Projects	Heike Kerwin Fabian Friedli SpieglTec
17.30	17.45	Swiss Engineering. For all of us.	Valentin Herbez Swiss Engineering
17.45	20.00	Aperitif and networking	

Building i21, Cafeteria

Scientific Programme - Tuesday, September 1 - morning**Molecular biotech & diagnostic**

		Chairman: Eric Kübler	Speaker	Company / Uni
8.30	9.00	Valais Life Sciences: Hidden Golden Gems	Massimo Nobile	BioArk
9.00	9.30	Paper-based point-of-care testing	Jean-Manuel Segura	HES-SO Valais
9.30	10.00	PRIME: A Modular Plasmid-Based Platform for Continuous in vivo Protein Evolution across Bacteria	Nicolas Huguenin-Dezot	ETHZ
10.00	10.30	<i>Break - Cafeteria mezzanine</i>		

Environmental biotechnology

		Chairman: Jack Rohrer	Speaker	Company / Uni
10.30	11.00	Biochar: carbon sequestration and soil microbiology	Christoph Griesbeck	MCInnsbruck
11.00	11.30	Performance and feasibility of micro biogas systems under Swiss climate conditions	Wolfgang Merkle	ZHAW
11.30	12.00	Electrogenic Microbes: From Pure Electrochemistry to Inverse Modeling to Predict Membrane Potentials for Power to X Engineering	Fabian Fischer	HES-SO Valais
12.00	12.30	Microbiome dynamics associated with pharmaceutical removal in wastewater	Marcel Suleiman	FHNW
12.30	12.45	<i>Transfer to Cafeteria</i>		
12.45	13.45	<i>Lunch</i>		

Scientific Programme - Tuesday, September 1 - afternoon**Toxicology, microbiome and therapies**

Chairman: Aydin Anbarani		Speaker	Company / Uni
13.45	14.15	AbYlink™ - FluoSphera: Bridging Regio-Selective Antibody Conjugation and Advanced 3D Models	Viktoriia Postupalenko Clélia Bourgoint Debiopharm, FluoSphera
14.15	14.45	TBA	Markus Spiliotis FHNW
14.45	15.15	From Antibiotics to Plant Growth Promotion: The Emerging Potential of Streptomyces	Giuseppe Gallo Palermo
15.15	15.45	<i>Break - Cafeteria mezzanine</i>	
15.45	16.15	Extracellular vesicle (EV) mediated targeted delivery of antimicrobial proteins to clear intracellular bacterial infections	Steffi Lehmann ZHAW
16.15	16.45	From cells to signals: advancing cell-based assays with multielectrode arrays	Jack Rohrer ZHAW
17.18	<i>Departure I for Les Iles</i>		<i>Bus BS12 (line Aproz)</i>
17.48	<i>Departure II for Les Iles</i>		<i>Bus BS12 (line Aproz)</i>
19.00	<i>BBQ at Les Iles</i>		

Scientific Programme - Wednesday, September 2

AI and Biotechnology

Chairman: Alexandre Kuhn		Speaker	Company / Uni
9.00	9.30	Computational design of functional de novo serine proteases: from catalytic geometries to enzyme candidates	Andrea Buscemi FHNW
9.30	10.00	Agentic protein design	Simon Dürri HES-SO Valais
10.00	10.30	<i>Break - Cafeteria mezzanine</i>	
10.30	11.00	Characterization of omics biomarkers in gut diseases	Tugce Bilgin Sonay ZHAW
11.00	11.30	DNA language models	Théophile Gentilhomme HES-SO Valais
11.30	12.00	ChronoTrack: Representation Learning Framework for Microvasculature-on-chip Models	Tim Heinemann CSEM Zürich
12.00	12.30	The one stop shop for turning biotech ideas into sustainable innovations	Maurizio Bettiga Italbiotec
12.30	12.45	<i>Transfer to Cafeteria</i>	
12.45	13.45	<i>Lunch</i>	

Scientific Programme - Wednesday, September 2

Biotech in Action: Mini, Mighty, and Microbial

Chairman: Patrick Shahgaldian		Speaker	Company / Uni
13.45	14.15	High-throughput screening of microbial libraries in semi-permeable capsules	Nils Hanik HES-SO Valais
14.15	14.45	Miniaturization and automation of sample preparation for PFAS from various matrices	Rouven Häusler FHNW
14.45	15.15	Microbiome Modulation as a tool for longevity	Wolfram Brück HES-SO Valais
15.15	15.45	From Discovery to Deployment: Probiotics Targeting <i>Clostridioides difficile</i>	Gottfried Dasen ZHAW
15.45	16.15	<i>Break - Cafeteria mezzanine</i>	
16.15	16.45	Training session for students	
16.45	17.15	Training session for students	

Scientific Programme - Thursday, September 3

Students presentations

Chairman: Laura Rolinger			Speaker	Company / Uni
9.00	9.15		Group 1	
9.15	9.30		Group 2	
9.30	9.45		Group 3	
9.45	10.00		Group 4	
10.00	10.30	Break - Cafeteria mezzanine		
10.30	10.45		Group 5	
10.45	11.00		Group 6	
11.00	11.15		Group 7	
11.15	11.30		Group 8	
11.30	12.00	Award ceremony and Photo		
12.00	Conclusion			