XIX Summer School on Advanced Biotechnology										
1-4 September 2025 Palermo, Italy										
Program										
Start	End		Monday 1		Tuesday 2		Wednesday 3		Thursday 4	
08:00	08:45		Registration							
08:45	09:00		Welcome and Opening Remarks							
09:00	0 09:30	ck Models	Speaker: Laura Suter-Dick, FHNW	Chair Jack Rohrer Session: Protein design & analytical biotechnology	Speaker: Georg Lipps, FHNW	guenin-Dezot rocesses	Speaker: Harald Schobel, MCI	dian	Student Session I	
03.00		Griesbec	Title: Organ on a Chip for multitissue experiments		Title: A to Protein Language Models and Protein Design		Title: SpotLIGHT on Biotechnology: Using light as a tool in bioprocesses	c Shahgal	5 groups, 15 min/group	
09:30	10:00	Chair: Ch	Speaker: Riccardo Barrile, UniCincinnati Title: From Cells to Systems: Building Human Organs-on-Chips for Drug Discovery		Speaker: Dominik Meinel, FHNW TRIe: Harnessing focal molography for affinity and concentration measurements of proteins in complex matrices		Speaker: Alexandre Kuhn, HES-SO Title: Towards automated development of bacterial strains for industrial bioproduction	Chair: Patrick		
10:00	10:30		Speaker: Giovanni Zito, ISMETT Title: From 2D to 3D models: new tools to study liver diseases		Speaker: Simon Crelier, HES-SO Title: Enzymes and organic solvents: old tricks and recent developments		Speaker: Caspar Demuth, ZHAW Title: Advanced sensor technology to enhance bioprocess understanding		Coffee break	
10:30	11:00		Coffee break		Coffee break		Coffee break		Student Session II	
			Speaker: Jack Rohrer, ZHAW	Chair: Jaura Suter-Dkck Session: Nanomedicine & cancer therapy	Speaker: Oya Tagit, FHNW	Das led t	Speaker: Gaspare La Rocca, UniPA	oldian	5 groups, 15 min/group	
11:00		er ierapies	Title: Development of a CAR-NK killing assay		Title: Translating cancer immunotherapy nanomedicines from lab to clinic		Title: microRNA-mediated gene regulation in physiology and disease	ick Shahga		
	42.00	ric Kubler nced ther	Speaker: Vincenzo Cavalieri, UniPA		Speaker: Simona Campora, UniPA		Speaker: Nicolas Huguenin-Dezot, ETH	in Patr		
11:30	12:00	Chair: Eric on:Advane	Title: Cell-free therapy with the secretome of stem cells		Title: 3D tumor models for cancer research		Title: Towards developing a plasmid-based orthogonal replication system E. coli: Findings and challenges	eg S		
12:00	12:30	Sessi	Speaker: Tereza Mullerova, FHNW Title: Twin-Column Continuous Chromatography for Viral		Speaker: Patrick Shahgaldian, FHNW Title: Functional Nanomedicine Through Enzyme		Speaker: Giuseppe Gallo, UniPA Title: Streptomycete extracellular membrane vesicles affect growth and		Prize Ceremony and Concluding Remarks	
			Vector Gene Therapies		Supramolecular Engineering		differentiation of either bacterial strains and tomato plants			
12:30	14:00		Lunch Speaker: Wolfgang Minas, Biotech Concepts		Lunch Speaker: Eric Kubler, STERA Scientific AG		Lunch Speaker: Maurizio Bettiga, Italbiotech			
14:00	14:30	Chair: Georg Lipps Session: Insights from Industry	Title: Biotechnology – going scale-up: Early on considerations and pitfalls	Chair: Vincenzo Cavalleri Session: Insights from Industry	Title: Modern Swine Diagnostics: A Dual Focus on Efficiency and Well-being	ir: Alexandre Kuhn sion: Insights from Industry	Speaker: Maurizio bettiga, italiotech Title: Dead ideas walking: rescuing them from the valley of death			
	15:00		Speaker: Gabriele Steiner, Spiegltec		Speaker: Lauriane Pillet, Lonza			l		
14:30			Title: to be defined		Title: Bioconjugates: from industrial manufacturing at Lonza to therapeutic applications		Student Working Session in groups			
15:00	15:30	:30 Coffee break		Coffee break						
15:30	16:00	Crelier agy & Biobanking	Speaker: Wolfgang Merkle, ZHAW	Chair: Gluseppe Gallo Session: Invisible threats and beneficial microbes	Speaker: Marco Rupprich, FHNW		Coffee break			
			Title: Insights and Progress from a Swiss Micro Biogas Research Plant		Title: Are PFAS be the new asbestos, and what can we learn from the past?					
16:00	16:30	Simon Cr ic Biology	Speaker: Maike Otto, FHNW		Speaker: Christoph Borner, UniFreiburg		Student Working Session in groups			
		Chair: S ssion: Syntheti	Title: Future Innovators Wanted: The Journey of the FHNW iGEM Team 2025		Title: Herpes Simplex Virus (HSV) - how does it survive in the body of so many humans?					
16:30	17:00		Speaker: Gottfried Dasen, ZHAW		Speaker: Valeria Villanova, UniPA					
		Še	Title: Biobanking for Biotech		Title: to be defined			l		
18:00	1	Welcome Party		Free evening			Free evening			

ETH - Federal Institute of Technology, Zurich, CH

FHNW - University of Applied Sciences, Muttenz, CH

HES-SO - Hes-so Valais Wallis, Sion, CH

ISMETT - Istituto Mediterraneo per i Trapianti e Terapie ad Alta Specializzazione, Palermo, IT

MCI - The Entrepreneurial School, Innsbruck, AT

UniCincinnati - University of Cincinnati, Cincinnati, US

UniFreiburg - Albert Ludwigs Universität, Frieburg, DE

UniPA - University of Palermo, Palermo, IT

ZHAW - University of Applied Sciences, Zurich, CH