## XVII Summer School on Advanced Biotechnology 4-6 September 2023 Palermo, Italy Program

State   Stat	Program								
Welcome and Opening remarks:   Solution Fee, Transpart Directors, and Opening remarks:   Solution Fee, Transpart Directors, and other	Start	End		Monday 4		Tuesday 5		Wednesday 6	
Section   Sect	08:30	09:00		Registration					
10:00 10:00 10:00 Telegraph of communication (February 15:00) The Anterior Code (Febru	09:00	09:20			ygolout	Title: In Silica Protein Engineering towards	nology	Title: Cell Line Development for Biomanufacturing –	
10:00 10:00 10:00 Telegraph of communication (February 15:00) The Anterior Code (Febru	09:20	09:40	riesback schnology		izia Cancemi ry and Nanotecl	Title: Exploring the anticancer activity and the mechanism	omas Villiger ceutical Biotech	Title: Development of Theragnostic Nanobody-Polymer-	
10:20 11:00 Coffee break  11:00 11:20 Total Repeated the control of particular and processes and future challenges and particular controlling and the processes and future challenges and particular and	09:40	10:00	Christoph Gi : Green Biote	Title: Optimization of ex-situ biomethanation and	<b>Chair</b> : Patr Drug Deliver	Title: Functionalized nanoparticles as delivery system for	Chair: Tho : Biopharma	Title: Transgenes characterization in Pichia strains used for	
11:20 11:20	10:00	10:20	Chair:	Title: Anaerobic digestion of organic waste for biogas	Section:	Title: Bio-hybrid cardiac patch to prevent left ventricle	Section	Title: Continuous Bioprocesses: From antibodies to viral	
11:20   11:20   11:20   12:20	10:20	11:00		Coffee break		Coffee break		Coffee break	
Title: Directed evolution – from cherry picking to big data  12:20 12:30 Workshop: Pitching your research or company  14:20 14:20 14:40 15:00 16:00 Coffee break  15:00 16:00 Toffee break  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Lunch  Lunch  Speaker: RATINATION  Speaker: RATINATION  Title: A plant-based alternative to yogurt: Effect of formentation on pea protein  Title: How do we get drugs into the brain?  Lunch  Lunch  Lunch  Speaker: RATINATION  Title: Cygan-on-Chip: a potential alternative to traditional animal testing  Title: How do we get drugs into the brain?  Lunch  Lunch  Lunch  Speaker: RATINATION  Title: Cygan-on-Chip: a potential alternative to traditional animal testing  Title: Struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted s	11:00	11:20	ot thesis		Delivery	Title: Exploring potential therapeutic effects of secretome	echnology		
Title: Directed evolution – from cherry picking to big data  12:20 12:30 Workshop: Pitching your research or company  14:20 14:20 14:40 15:00 16:00 Coffee break  15:00 16:00 Toffee break  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Lunch  Lunch  Speaker: RATINATION  Speaker: RATINATION  Title: A plant-based alternative to yogurt: Effect of formentation on pea protein  Title: How do we get drugs into the brain?  Lunch  Lunch  Lunch  Speaker: RATINATION  Title: Cygan-on-Chip: a potential alternative to traditional animal testing  Title: How do we get drugs into the brain?  Lunch  Lunch  Lunch  Speaker: RATINATION  Title: Cygan-on-Chip: a potential alternative to traditional animal testing  Title: Struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted s	11:20	11:40	Chair: Nicolas Huguenin-Dez Section: Biocatalysis and Biosyn	Title: Biosynthesis and genetic encoding of phosphonates	Chair: Jack Rohrer Section: Drug Development and Drug	Title: Membranes, transporters and channels from basic	Chair: Eric Kubler: Section: Diagnostic and Analytical T	Title: Improved molecular diagnostic based on long read	
Title: Directed evolution – from cherry picking to big data  12:20 12:30 Workshop: Pitching your research or company  14:20 14:20 14:40 15:00 16:00 Coffee break  15:00 16:00 Toffee break  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Title: How do we get drugs into the brain?  Lunch  Lunch  Speaker: RATINATION  Speaker: RATINATION  Title: A plant-based alternative to yogurt: Effect of formentation on pea protein  Title: How do we get drugs into the brain?  Lunch  Lunch  Lunch  Speaker: RATINATION  Title: Cygan-on-Chip: a potential alternative to traditional animal testing  Title: How do we get drugs into the brain?  Lunch  Lunch  Lunch  Speaker: RATINATION  Title: Cygan-on-Chip: a potential alternative to traditional animal testing  Title: Struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted side streams: a case study and struction of fishery unsorted s	11:40	12:00		Title: Molecular approaches to activate secondary		Title: How funghi and viruses exploit cell death mechanisms			
12:30 14:00   14:20   14:20   14:40   15:00   16:20   16:20   16:20   16:20   16:20   16:20   17:00   17:00	12:00	12:20						<b>Title:</b> Misdeeds at the Vatican Secret Archives: the case of the purple spots damaging the Laurentius Loricatus	
14:20 14:20 14:40 15:00 16:20 16:20 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00 17:00 16:20 17:00 16:20 17:00 16:20 17:00 16:20 17:00	12:20	12:30		Workshop: Pitching your research or company					
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15:00 16:00 Coffee break Coffee break Prize Ceremony  16:00 16:20 Speaker: Francesca Demaria, FHNW  16:40 17:00 Title: Shed light on photosynthetic organisms: Light as a tool in biotechnology Speaker: Lucia Colleselli, MCI  Title: Bling-bling by MOs: Biological Synthesis of nanoscaled metallic particles	14:00	14:20	oggia hnology	Title: A plant-based alternative to yogurt: Effect of	mmitee :r		Sallo Analytical	Title: Organ-on-Chip: a potential alternative to traditional	
15:00 16:00 Coffee break Coffee break Prize Ceremony  16:00 16:20 Speaker: Francesca Demaria, FHNW  16:40 17:00 Title: Shed light on photosynthetic organisms: Light as a tool in biotechnology Speaker: Lucia Colleselli, MCI  Title: Bling-bling by MOs: Biological Synthesis of nanoscaled metallic particles	14:20	14:40	47	Title: Valorization of fishery unsorted side streams: a case	Chair: Organizing Co Biotech Corne		Chair: Giuseppe C Section: Diagnostic and Technology	Title: Streptomyces violaceoruber and Kocuria rhizophila showing plant-growth promoting activity on Solanum	
16:00 16:20  16:40  16:40  17:00  Speaker: Francesca Demaria, FHNW Title: Analysing microbial community dynamics and pharmaceuticals degradation in lab-scale MBRs under fluctuating micropollutant concentration Speaker: Harald Schoebel, MCI Title: Shed light on photosynthetic organisms: Light as a tool in biotechnology Speaker: Lucia Colleselli, MCI Title: Bling-bling by MOs: Biological Synthesis of nanoscaled metallic particles	14:40	15:00		Title: Estimation of biomass in microalgae cultivations via		Working session: Pitching your research or company			
	15:00	16:00	Coffee break		Coffee break		Prize Ceremony		
	16:00	16:20	nair: Harald Schoebel invironmental Biotechnology	Title: Analysing microbial community dynamics and pharmaceuticals degradation in lab-scale MBRs under				Concludin Remarks	
	16:20	16:40		Title: Shed light on photosynthetic organisms: Light as a tool in biotechnology		Student Presentations			
18:00 Welcome Party Free evening	16:40	17:00	Cl Section : E	Title: Bling-bling by MOs: Biological Synthesis of nanoscaled					
	18:00			Welcome Party		Free evening			

COTEDAZUR - University of Cote D'Azur, Nice, FR

ETH - Federal Institute of Technology, Zurich, CH

FHNW - University of Applied Sciences, Muttenz, CH

FREIBURG - Albert Ludwigs Universität, Frieburg, DE

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

 $\ensuremath{\mathsf{MCI}}$  - The Entrepreneurial School, Innsbruck, AT

Ri.MED - Ri.MED Foundation, Palermo, IT

UNIGE - University of Genova, Genova, IT

UNIPA - University of Palermo, Palermo, IT

UNI ROMA - University of Rome "Tor Vergata", Rome, IT

ZHAW - University of Applied Sciences, Zurich, CH