14:30 Pushing on the boundaries: the SNAP-tag technology at high temperatures by the exploitation of engineered variants of thermostable archeal OGTs
 Prof. Giuseppe Perugino (University of Napoli "Federico II")

 14:50 Integrating structural biology and biophysics approaches to study multifunctional collagen enzymes
 Prof. Federico Forneris (University of Pavia)

 15:10 Challenges and advances in omics data integration in constraint-based modelling of metabolism
 Dr. Bruno Giovanni Galuzzi (University of Milano-Bicocca)

Dr. Bruno Giovanni Galuzzi (University of Milano-Bicocca)

15:20 Cryo-EM-based structural investigation of Mycobacterium tuberculosis

Nucleotide Excision Repair pathway.

Dr. Marianna Genta (University of Piemonte Orientale)

15:30 Exploiting plasmonic biosensors for point of care detection of inflammatory and prooxidant biomarkers

Dr. Debora Bencivenga (University of Campania "L. Vanvitelli")

15:40 Back to the future and poster prize

Chairs: Prof. Paolo V. Pedone (President of the National University Council); Prof. Raffaele Porta (University of Napoli "Federico II")

Prof. Lilia Alberghina (University of Milano-Bicocca)

Prof. Mario De Rosa (University of Campania "L. Vanvitelli")

Prof. Mauro Magnani (University of Urbino)

16:10 Closing meeting

Prof. Chiara Schiraldi (Coordinator of SIB- Biotechnology group)

Prof. Gabriella Tedeschi (Coordinator of SIB- Protein group)

Prof. Marco Vanoni (Coordinator of SIB -Computational and System Biology group)

Dr. Giulia Babbi (Junior representative of SIB Computational and system biology group)

Dr. Mariarita Brancaccio (Junior representative of SIB Biotechnology group)

Dr. Riccardo Miggiano (Junior representative of SIB Protein Group)

Thanks to:









LOCAL SUPPORTING TEAM:

Dr. Antonella D'Agostino Dr. Sergio D'Ambrosio Dr. Rosario Finamore Dr. Valentina Vassallo

SEGRETERIA ORGANIZZATIVA ble&associates s.r.l.

t.: 0823 30.16.53 f.: 0823 36.10.86 e.: segreteria@bleassociates.it



Complesso S. Andrea Delle Dame via De Crecchio 7, 80138 Naples, Aula Bottazzi





18 - 19 MAY **2023**

BIOPROSYS JOINT MEETING

From basic understanding of cell networks to their modulation and engineering for health and industrial applications

ORGANIZING AND SCIENTIFIC COMMITTEE

Prof. Chiara Schiraldi, University of Campania "L. Vanvitelli"
Prof. Gabriella Tedeschi, University of Milano
Prof. Marco Vanoni, University of Milano-Bicocca
Dr. Giulia Babbi, University of Bologna
Dr. Mariarita Brancaccio, University of Napoli "Federico II"
Dr. Riccardo Miggiano, University of Piemonte Orientale







THURSDAY 18 MAY

13:00	Registration		III SESSION
			Exploting biological functions for biotechnology (and beyond)
14:00	Opening		Chairs: Prof. Marco Moracci (University of Naples "Federico II")
	Prof. Gianfranco Nicoletti (Rector of the University of Campania "L. Vanvitelli")		Dr. Alberto Alfano (University of Campania "L. Vanvitelli")
	Prof. Chiara Schiraldi	09:00	Guiding stars to the field of dreams: novel metabolically
	Prof. Gabriella Tedeschi		engineered pathways for sustainable lignin valorization
	Prof. Marco Vanoni		Prof. Loredano Pollegioni (University of Insubria)
		09:30	Metabolic engineering of yeast through the manipulation of transporters
14:15	MAIN LECTURE		Prof. Gennaro Agrimi (University of Bari)
	Prof. Luis Serrano (Director, Center for Genomic Regulation Barcelona)	09:50	Engineering biosynthetic pathways to produce chondroitin for biotechnological applications Dr. Donatella Cimini (University of Campania "L. Vanvitelli")
	I SESSION	10:10	Biotechnological applications of a bacterial flavin monooxygenase:
	Proteins and molecules driven cell networks	10.10	from indigoids to drug metabolites
	Chairs: Prof. Gianfranco Gilardi (University of Torino);		Prof. Sheila Sadeghi (University of Torino)
	Dr. Elisa Maffioli (University of Milano)	10:20	Development of tumor targeted nanotracer for fluorescence-guided
		10.20	image surgery of cancer: the case of Ferritin Nanocages
14:55	CAID 2: lessons from the second critical assessment of protein intrinsic disorder prediction		Dr. Marta Sevieri (University of Milano)
	Prof. Silvio Tosatto (University of Padova)	10:30	Red blood cells loaded with ornithine aminotransferase as cell-mediated
15:25	Towards an evolutionary driven universal therapy against (intracellular) pathogens	10.30	therapy for gyrate atrophy of the choroid and retina
	Prof. Loris Rizzello (University of Milano)		Dr. Gioena Pampalone (University of Perugia)
15:45	A window into secretome biology in health and disease		Electric Comparison (Surveyor) Congruy
	Prof. Angela Chambery (University of Campania "L. Vanvitelli")	10:40	Coffee break and poster session
16:05	Multi-omic analyses pinpoint distinct metabolic pathways during differentiation	10.40	
	of hiPSC-derived astrocytes		IV SESSION
	Prof. Paola Coccetti (University of Milano-Bicocca)		Advanced biological models for "bio-health"
16:15	FPR2 stimulation induces metabolic reprogramming of CaLu-6 cells		Chairs: Prof. Rosario Amendola (University of Napoli "Federico II")
	in a NOX-dependent manner		Dr. Gennaro Sanità (National Research Council, ISASI)
	Dr. Tiziana Pecchillo Cimmino (University of Napoli "Federico II")		2 Samura annua (reactoriai rescureri countili, ismol)
16:25	Spatially resolved RAS interacting proteins using MS-Imaging approach enable	11:20	Dissecting the role of calcium related signalling in osteoblasts:
	to decipher RAS mutational status	11.20	a lesson from Osteogenesis Imperfecta
	Dr. Isabella Piga (University of Milano-Bicocca)		Prof. Antonella Forlino (<i>University of Pavia</i>)
	Company of the second of the s	11:50	Modeling Mucopolysaccharidosis lysosomal disease: from therapeutic strategies,
16:35	Coffee break		through system biology, to cell networks
			Prof. Luigi Pavone (University of Napoli "Federico II")
	II SESSION	12:10	Integration of multi-omic and functional analyses to dissect the metabolic
	Key enzymes in regulation and design of cell function	12.10	and physiological rearrangements in bladder cancer cells transitioning from adherent
	Chairs: Prof. Francesca Cutruzzolà (University of Roma Sapienza);		to spheroid cultures
	Dr. Massimiliano Gasparrini (Marche Polytechnic University)		Dr. Elena Sacco (University of Milano - Bicocca)
	The state of the s	12:30	Serum lipid profiling of glycogen storage disease type la patients
17:00	Hyaluronan synthase regulation between epigenetics and covalent modification		Dr. Marianna Caterino (<i>University of Napoli "Federico II"</i>)
	Prof. Alberto Passi (University of Insubria)	12:40	Response to microplastic exposure: an exploration into
17:30	De novo biosynthesis of L-serine in the human brain:		the sea urchin immune cell proteome
	from pathway regulation to serine deficiency disorders		Dr. Simona Nonnis (University of Milano)
	Prof. Barbara Campanini (University of Parma)	12:50	Sustainable biopolymers for 3D printed scaffold useful for in vitro models
17:50	ACE2 nuclear function impact on human lung epithelial cells	55	and tissue regeneration
	Prof. Chiara Giacomelli (University of Pisa)		Dr. Celeste Di Meo (<i>University of Campania "L. Vanvitelli"</i>)
18:10	Role of allostery and oligomerization in tuning one-component systems controlling		A State Comment (
	bacterial biofilm maintenance	13:00	Light Lunch
	Prof. Serena Rinaldo (University of Roma Sapienza)	25.00	•
18:20	Effect of lemon peel polyphenol extract on enzymes involved		V SESSION
	in tumor cell invasiveness and Neurodegeneration		New tools to study molecules, structures, interactions and network properties
	Prof. Rosaria Arcone (Parthenope University)		Chairs: Prof. Fabrizio Dal Piaz (University of Salerno)
18:30	Remodeling of the proteome in glioblastoma cells as an effect of the CDBA		Dr. Antonio Chavez (University of Milano)
	on the eukaryotic translation complex		Since Since Service (Since Service)
	Dr. Maria Laura Bellone (University of Salerno)	14:00	Protein language models for predicting protein-protein interactions
	the state of the form that of continuous	14.00	Prof. Rita Casadio (University of Bologna)
18:40	Welcome cocktail and poster session		- (- (- (- (- (- (- (- (- (- (
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FRIDAY 19 MAY