SPRINT-AIDD

Programme

Sunday 25th May

17.00-19.00	Registration	
20.00	WELCOME BUFFET	

Monday 26th May

Welcome address of Stefano Alcaro

President of the Medicinal Chemistry Division of the Italian Chemical Society Smarter drugs, faster cures: new solutions for Orazio Nicolotti 09.00-09.30 next-gen medicinal chemistry University of Bari Nicoletta Del Buono 09.30-10.00 Principal component analysis and clustering University of Bari Fulvio Ciriaco 10.00-10.30 Molecular similarity in medicinal chemistry University of Bari 10.30-11.00 **COFFEE BREAK** Massimo Baroni 11.00-11.30 Validation techniques Molecular Discovery Andrea Astolfi Bioactivity Data Curation: Improving Data 11.30-12.00 Quality for Al-Driven Drug Discovery University of Perugia

Optimization and machine learning

algorithms

Chemical space networks, ancient tools for

novel perspectives

12.00-12.30

12.30-13.00

13.00-15.00



Flavia Esposito

University of Bari

Nicola Amoroso

University of Bari

SOCIAL LUNCH

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15.00-18.00	Training with Prometheus lab: drug discovery and predictive toxicology web platforms	
18.00-20.00	Free swimming pool/oil mill/walking	
20.00	SOCIAL DINNER	

Tuesday 27th May

09.00-09.30	Intelligence Amplification is much better than Artificial Intelligence	Gabriele Cruciani University of Perugia
09.30-10.00	Molecular docking and prioritization studies	Daniela Trisciuzzi University of Bari
10.00-10.30	Molecular dynamics simulations in HPLC analyses	Andrea Carotti University of Perugia
10.30-11.00	The importance of Water	Simon Cross Molecular Discovery
	COFFEE BREAK	
11.00-11.30	COFFEE BREAK	
11.00-11.30 11.30-12.00	COFFEE BREAK Hopping Around 3D Pocketomes To Aid Drug Discovery	Lydia Siragusa Molecular Discovery
	Hopping Around 3D Pocketomes	
11.30-12.00	Hopping Around 3D Pocketomes To Aid Drug Discovery 3D-Based Prediction of Biotransformations,	Molecular Discovery Tommaso Palomba



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15.00-18.00	Training with Molecular Discovery Ltd.: MIF-based software for drug discovery	
18.00-20.00	Free swimming pool/oil mill/walking	
20.00	SOCIAL DINNER	

Wednesday 28th May

9.00-9.30	Chemical languages in generative chemistry	Fabrizio Mastrolorito University of Bari	
9.30-10.00	Al-driven de novo design: a Pareto optimization approach	Nicola Gambacorta University of Bari	
10.00-10.30	COFFEE BREAK		
10.30-10.40	Development of QSPR models predicting small molecule environmental fate endpoints to design greener pharmaceuticals	Matteo Bersani Department of Drug Science and Technology, University of Turin	
10.40-10.50	Data-Driven Discovery of Natural TNKS1 Inhibitors: A Hybrid AI and Structure-Based Approach	Marina Bilotta Dipartimento di Scienze della Salute, Università "Magna Græcia" di Catanzaro	
10.50-11.00	Mining the Conformational Ensemble of HIV-1 TAR RNA for Small-Molecule Drug Discovery	Stefano Bosio Department of Pharmacy and Biotechnology – University of Bologna	
11.00-11.10	Towards the development of a molecular docking Meta-program to improve the docking accuracy.	Lidia Giuliani Department of Drug Chemistry and Technology, Sapienza University of Rome	

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11.10-11.20	Unveiling the Hidden Signatures of Non- Canonical DNA: A Chemometric Journey through G-Quadruplex and i-Motif Structures	Nunzia laccarino Department of Pharmacy, University of Naples Federico II
11.20-11.30	Integrated computational and synthetic approaches to identify novel viral helicase inhibitors	Alessia Onali Department of Life and Environmental Sciences, University of Cagliari
11.30-11.40	Hypericum empetrifolium and H. lydium as Health Promoting Nutraceuticals: Assessing their Role Combining In Vitro In Silico and Chemical Approaches	Eleonora Procino Department of Pharmacy, University of Chieti-Pescara
11.40-11.50	Machine Learning-based prediction of protein-ligand binding affinity	Francesca Tanda Dipartimento di Chimica, Università degli studi di Milano
11.50-12.00	Closing remarks	Cosimo D. Altomare University of Bari

