

PROGRAM

Sunday, September 11th, 2022

14.30-16.45	REGISTRATION Aldo Moro Hall
17.00-17.45	OPENING CEREMONY Stefano Bronzini – Rector of the University of Bari Aldo Moro Antonio F. Uricchio – President of ANVUR Francesco Leonetti – Head of the Department of Pharmacy-Pharmaceutical Sciences Luigi D'Ambrosio Lettieri – Vice-president of F.O.F.I. Regional Political Authorities Gianluca Sbardella – Chair of the Meeting Maria Laura Bolognesi – President of the Medicinal Chemistry Division Cosimo D. Altomare – Chair of the Local Organizing Committee
17.45-18.15	Medicinal Chemistry Division of the Italian Chemical Society's Awards Francesco Merlino, <i>University of Naples Federico II, Italy</i> Laura Scalvini, <i>University of Parma, Italy</i> Best Doctoral Thesis Awards Design and Synthesis of new PET radiotracers in drug discovery Marco Maspero, <i>University of Milan, Italy</i> Design and synthesis of (pro)electrophilic compounds for investigating the multifactorial nature of neurodegenerative diseases: focus on inflammation-driven events Filippo Basagni, <i>University of Bologna, Italy</i>
18.15-18.45	Musajo Medal of the Medicinal Chemistry Division of the Italian Chemical Society Recipient: Gabriele Costantino, <i>University of Parma, Italy</i> Chair: Maria Laura Bolognesi – President of the Medicinal Chemistry Division
18.45-19.45	PL1: Exploring molecular promiscuity through activity data analysis and explainable artificial intelligence Jürgen Bajorath, <i>University of Bonn, Germany</i>
20.00	WELCOME BUFFET

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	Aldo Moro Hall	Vincenzo Starace Hall
	Chair: Cosimo D. Altomare	Chairs: Violetta Cecchetti, Stefano Alcaro
9.00-9.50	PL2: Going with the flow - The use of continuous processing for synthesizing Active Pharmaceutical Ingredients C. Oliver Kappe, <i>University of Graz, Austria</i>	KN2: Unleashing the potential of Translocator Protein as a therapeutic and diagnostic target: a successful MedChem tale Sabrina Taliani, <i>University of Pisa, Italy</i>
10.00-10.30	KN1: Computational approaches to the design of covalent drugs Marco Mor, <i>University of Parma, Italy</i> <i>ChemMedChem Lecture</i>	OC2: Functionalized 6H-dibenzo[c,e]thiazine 5,5-dioxides are potent suppressors of the toxicity mediated by the cellular prion protein Giuseppe Manfroni, <i>University of Perugia, Italy</i>
10.30-10.50	OC1: SQM-Score: Universal Quantum-Mechanical Scoring Function for Structure-based Drug Design Adam Pecina, <i>Czech Academy of Sciences Prague, Czech Republic</i>	FC2: Extra virgin olive oil extracts enriched in secoiridoids induce an anti-inflammatory profile in PBMCs from obese children Stefania De Santis, <i>University of Bari, Italy</i>
10.50-11.00	FC1: Machine learning applied to early prediction of drug metabolism Marta Lettieri, <i>S-IN Soluzioni Informatiche srl, Vicenza, Italy</i>	
11.00-11.20	COFFEE BREAK	
11.20-11.40	OC3: The 3D-QSAR.COM portal as tool to develop predictive ligand-based and structure-based models for SARS-CoV-2 main protease inhibitors Rino Ragno, <i>Sapienza University of Rome, Italy</i>	OC6: Discovery of orexant and anorexant agents with indazole scaffold endowed with peripheral antiedema activity Adriano Mollica, <i>University of Chieti-Pescara G. D'Annunzio, Italy</i>
11.40-12.00	OC4: Development of a LC-MS platform for monoclonal antibody characterization to assist the production of a rituximab biosimilar from plants Francesca Rinaldi, <i>University of Pavia, Italy</i>	OC7: New class of potential antidiabetes agents targeting DPPIV and CAs enzymes Laura Fumagalli, <i>University of Milan, Italy</i>
12.00-12.20	OC5: A proof-of-concept of the analgesic effect of non-psychotropic <i>Cannabis sativa L.</i> and its main components on peripheral neuropathy Federica Pellati, <i>University of Modena and Reggio-Emilia, Italy</i>	OC8: Towards the characterization of corrector ARN23765 mechanism of action via photo-affinity labeling (PAL) approach Francesco Saccoliti, <i>Italian Institute of Technology, Genoa, Italy</i>
12.30-14.00	LUNCH	
14.00-15.30	POSTER SESSION & COMMERCIAL EXHIBITION	

Monday, September 12th, 2022

	Aldo Moro Hall	Vincenzo Starace Hall
	Chair: Gabriele Costantino, Giovanni Lentini	Chair: Maria Laura Bolognesi, Roberto Di Santo
15.30-16.00	KN3: Synthetic lethality for next generation precision oncology Andrea Cavalli, <i>University of Bologna, Italy</i>	KN4: A nature inspired approach to develop covalent enzyme inhibitors with anti-infective and anticancer activity Paola Conti, <i>University of Milan, Italy</i>
16.00-16.20	OC9: New nicotinamide mimic scaffold allowed nanomolar inhibition of human PARP enzymes Oriana Tabarrini, <i>University of Perugia, Italy</i>	OC11: Broad spectrum metallo β -lactamases inhibitors: new tools against clinically relevant carbapenemases Loretta Lazzarato, <i>University of Turin, Italy</i>
16.20-16.40	OC10: Spindlin-1 degraders: stairway to heaven (?) Monica Viviano, <i>University of Salerno, Italy</i>	OC12: Novel dipeptide nitriles as antitrypanosomal agents targeting rhodesain of <i>Trypanosoma brucei rhodesiense</i> : development and combination studies Roberta Ettari, <i>University of Messina, Italy</i>
16.40-17.00	COFFEE BREAK	
17.00-17.20	OC13: TRPM8 ion channel: new target in the treatment of castration-resistant prostate cancer (CRPC) Veronica Di Sarno, <i>University of Salerno, Italy</i>	OC15: The PADAM oxidation route for the synthesis of SARS-CoV-2 main protease inhibitors Sveva Pelliccia, <i>University of Naples Federico II, Italy</i>
17.20-17.40	OC14: Challenge transability of "in vitro" to "in vivo": gene-expression biomarkers and fluorescent image-guided surgery probes identification for ovarian cancer Antonio Scilimati, <i>University of Bari, Italy</i>	OC16: Discovery of diketo acid derivatives targeting the SARS-CoV-2 NSP13 helicase Valentina Madia, <i>Sapienza University of Rome, Italy</i>
17.40-17.50	FC3: Combining mass spectrometry and nuclear magnetic resonance for the study of ligand: G-quadruplex interaction Erika Oselladore, <i>University of Brescia, Italy</i>	OC17: An integrated medicinal chemistry workflow for the development of new peptides as SARS-CoV-2 MPro covalent inhibitors Simona Musella, <i>University of Salerno, Italy</i>
17.50-18.00	FC4: Carbazole derivatives as multi-target agents in breast cancer treatment Jessica Ceramella, <i>University of Calabria, Italy</i>	
18.00-19.00	NETWORKING	
	Tavola rotonda <i>Malattia di Lafora: dalla ricerca di farmaci ai diritti dei pazienti</i> Per una stretta cooperazione tra ricerca e assistenza G. d'Orsi, T. Bressanello, G. Annichiarico, A. Liantonio, G. Costantino, C. Altomare	Workshop Why was my paper rejected? Optimizing manuscripts for successful submission and publication David Peralta, Editor-in-Chief ChemMedChem, Wiley-VCH
19:30	CONCERT OF CORUS HARMONIA – BASILICA DI S. NICOLA	

Tuesday, September 13th, 2022

	Aldo Moro Hall		Vincenzo Starace Hall	
	Chair: Nicola A. Colabufo			
9.00-9.50	PL3: Innovative strategies to target non-coding RNAs with synthetic ligands Maria Duca, Université Côte d'Azur Nice, France			
	Aldo Moro Hall		Vincenzo Starace Hall	
	Chairs: Patrizia Diana, Francesco Leonetti			
10.00-10.30	KN5: Targeting dopamine D ₄ receptor as a thrilling challenge to explore new therapeutic opportunities Fabio Del Bello, University of Camerino, Italy		KN6: Identification of ARN21641, an orally available and CNS penetrant Acid Ceramidase inhibitor with target engagement in mouse models of Gaucher and Krabbe diseases Rita Scarpelli, Italian Institute of Technology, Genoa, Italy	
10.30-10.50	OC18: Development of novel enzyme inhibitors of the endocannabinoids' catabolism for the treatment of epilepsy and neuroinflammatory conditions Stefania Butini, University of Siena, Italy		OC19: Hijacking the folding process for targeted protein degradation Andrea Astolfi, University of Perugia, Italy	
10.50-11.00	FC5: Targeting the mycobactin biosynthesis pathway in <i>M. tuberculosis</i> : a step towards the improvement of the anti-virulence activity of MbtI inhibitors Matteo Mori, University of Milan, Italy		FC6: Development of hydrogen sulfide-releasing hybrids as novel multitarget drugs Angela Corvino, University of Naples Federico II, Italy	
11.00-11.20	COFFEE BREAK			
11.20-11.40	OC20: The pivotal role of pyrrolidine ring as multitarget scaffold in neurodegenerative diseases Antonio Carrieri, University of Bari, Italy		OC23: Nucleic acid aptamers: potential therapeutic agents for cancer and neurodegenerative disorders Jussara Amato, University of Naples Federico II, Italy	
11.40-12.00	OC21: Pursuing the complexity of bipolar disorder: rational design and optimization of first-in-class D3R/GSK-3β modulators towards an in vivo proof of concept Rita M.C. Di Martino, Italian Institute of Technology, Genoa, Italy		OC24: Combining quantum mechanics and machine learning in the search of the bioactive conformation of drug-like compounds Antonio Viayna, University of Barcelona, Spain	
12.00-12.20	OC22: S.M.A.R.T. steroids: synthesis and structure-activity relationship study towards allosteric modulators of N-methyl-D-aspartate receptors Eva Kudova, Czech Academy of Sciences Prague, Czech Republic		OC25: Challenging bioisosteric switch in AChE-MAO B dual-targeting hit optimization Leonardo Pisani, University of Bari, Italy	
12.30-14.00	LUNCH			
14.00-15.30	POSTER SESSION & COMMERCIAL EXHIBITION			

Tuesday, September 13th, 2022

	Aldo Moro Hall		Vincenzo Starace Hall	
	Chair: Giannamaria Annunziato, Laura Scalvini			
15.30-16.00	KN7: From the catalytic mechanism to the enzyme substrate selectivity: a study on N-acylthanolamine acid amidase Laura Scalvini, University of Parma, Italy		KN8: From natural resource to preclinical candidate: our experience with the temporin-derived peptide antimicrobial agents Francesco Merlino, University of Naples Federico II, Italy	
16.00-16.10	FC7: Discovery of 2-(4-hydroxy-3,5-dimethylphenyl)-N-(pyridin-2-yl)-1H-benzof[<i>d</i>]imidazole-6-sulfonamide as BET inhibitor with selectivity for the first bromodomain Alessandra Cipriano, University of Salerno, Italy		FC11: Tetrahydropyran and cyclohexane linked novel bacterial topoisomerase inhibitors with improved balanced antibacterial activity and safety profile Maja Kokot, National Institute of Chemistry, Ljubljana, Slovenia	
16.10-16.20	FC8: First-in-class selective inhibitors of the histone acetyltransferase KAT8 Francesco Fiorentino, Sapienza University of Rome, Italy		FC12: Miconazole-like scaffold is a promising lead for developing <i>Naegleria fowleri</i> - specific brain permeable CYP51 inhibitors Valeria Tudino, University of Rome Tor Vergata, Italy	
16.20-16.30	FC9: Design, synthesis, and biological evaluation of new hybrid MOR agonist/HDACi compounds: an innovative approach for persistent pain management Giuliana Costanzo, University of Catania, Italy		FC13: Structural modifications of triazine-based compounds for high-efficiency PDK inhibition Camilla Pecoraro, University of Palermo, Italy	
16.30-16.40	FC10: Visible-light photocatalytic activity of isocyanides: from the proof-of-concept to the synthetic application in Ugi-like chemistry Camilla Russo, University of Naples Federico II, Italy		FC14: In silico assisted discovery of dual 5-LOX/sHE inhibitors: in vitro characterization and in vivo anti-inflammatory properties Tania Ciaglia, University of Salerno, Italy	
16.40-17.00	COFFEE BREAK			
17.00-17.30	In memoriam of Prof. Vincenzo Tortorella (1932-2022) Celebration of retired colleagues			
17.30-19.30	DCF-SCI GENERAL MEETING (ASSEMBLEA DELLA DIVISIONE DI CHIMICA FARMACEUTICA)			
20.30	SOCIAL DINNER AT RISTORANTE ZONNO (Lungomare di Bari)			

Wednesday September 14th, 2022

	Aldo Moro Hall		Vincenzo Starace Hall	
	Chair: Marcello Leopoldo			
9.00-9.50	PL4: Targeting chemokine receptor CCR2 - From insurmountable antagonists to affinity-based probes Laura Heitman, Leiden University, The Netherlands			
	Aldo Moro Hall		Vincenzo Starace Hall	
	Chairs: Marco Catto, Marcello Leopoldo			
10.00-10.30	KN9: Development and hands-on application of PyRMD: a new AI-powered virtual screening tool Sandro Cosconati, Luigi Vanvitelli University, Naples, Italy		KN10: The discovery of potent and selective agonists of human transient receptor potential Cation Channel Subfamily M member 5: from HTS to early hit validation Alessio Barilli, Aptuit, an Evotec Company, Verona, Italy	
10.30-10.50	OC26: Exploring CCRL2 Chemerin binding using accelerated molecular dynamics Antonio Coluccia, Sapienza University of Rome, Italy		OC28: The first in vivo proof-of-concept for the efficacy of selective HDAC6 inhibition in cystic fibrosis: anti-inflammatory profile, effects on bacterial load, formulation and biodistribution studies Margherita Brindisi, University of Naples Federico II, Italy	
10.50-11.10	OC27: Functionalized ligands targeting G protein-coupled adenosine receptors Stephanie Federico, University of Trieste, Italy		OC29: New insights in the development of cannabinoid receptor subtype 2 (CB2R) ligands Marialessandra Contino, University of Bari, Italy	
11.10-11.30	COFFEE BREAK			
11.30-11.50	OC30: Optimizing the choice of 3D query structures in ligand-based virtual screenings with PharmScreen® Giorgia Zaetta, Parc Científic de Pharmacelera, Barcelona, Spain		OC32: Novel cyclic uPA-derived decapeptides reduce in vivo lung dissemination and re-educate CAF phenotype by acting through integrin αvβ5 Alfonso Carotenuto, University of Naples Federico II, Italy	
11.50-12.10	OC31: A computational grid-based analysis to map drug-like peptide binding pockets of peptide-protein interactions systems Daniela Trisciuzzi, University of Bari, Italy		OC33: Screening of amino-acid-anthraquinone click chemistry conjugates targeting human telomeric G-quadruplexes Giovanni Ribaudo, University of Brescia, Italy	
	Aldo Moro Hall		Vincenzo Starace Hall	
	Chair: Gianluca Sbardella			
12.10-13.10	PL5: COVID-19 pandemic: what we learnt in antiviral drug discovery, successes, and failures Vincenzo Summa, University of Naples Federico II, Italy			
13.10-13.30	CLOSING REMARKS and POSTER PRIZES			
13.30	LUNCH			

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