

Tuesday 16 th July 2019, Ca' Granda - University of Milan, Aula Magna		
14.30-17.00	REGISTRATION	
17.00-17.30	OPENING CEREMONY Rector (Prof. Elio Franzini) and Pro-Rector (Prof. Mariapia Abbracchio) Gabriele Costantino - Chairman of the Scientific Committee Gianluca Sbardella - President of the Medicinal Chemistry Division Marina Carini - Co-chair of the Organizing Committee Marco De Amici - Co-chair of the Organizing Committee	
17.30-18.00	Medicinal Chemistry Division of the Italian Chemical Society's Awards Alberto Massarotti, University of Piemonte Orientale, Novara Salvatore Di Maro, University "Luigi Vanvitelli", Caserta Best Doctoral Thesis Awards Quinoline-based efflux inhibitors as antimicrobial resistance breakers (ARBs) Tommaso Felicetti, University of Perugia Development of new antiprotozoal agents: design, synthesis and biological evaluation Francesco Saccoliti, IIT, Genoa, and La Sapienza University, Rome	
18.00-18.30	Musajo Medal of the Medicinal Chemistry Division of the Italian Chemical Society Recipient: Federico Da Settimo, University of Pisa Seal of the Medicinal Chemistry Division of the Italian Chemical Society Recipient: Daniele Donati, Nerviano Medical Sciences S.r.l., Nerviano (MI)	
18.30-19.30 OL	Chair: Gianluca Sbardella, University of Salerno Breakthroughs in GPCR structural biology and their impact on computer-aided drug design Kenneth A. Jacobson, National Institutes of Health, Bethesda, USA	
19.45	WELCOME BUFFET Loggiato del Rettorato	

FC = Flash Communication OL = Opening Lecture

Wednesday 17 th July 2019, Ca' Granda			
	NMMC - Aula Magna - Chair: Marco De Amici, University of Milan		
9:00-9:40 PL	(ChemMedChem lecture): Inducing protein degradation with small molecules: how Protacs work Alessio Ciulli, <i>University of Dundee, UK</i>		
	NMMC1 - Aula Magna	NMMC2 - Room 201	
	Chairs: Gianluca Sbardella, University of Salerno Cosimo Damiano Altomare	Chairs: Marco De Amici Marco L. Lolli	
9:50-10:20 KN	Annelated medium-sized azaheterocycles as attractive scaffolds or CNS targeted leads Cosimo Damiano Altomare , University of Bari	Hydroxyazoles as carboxylate bioisosteres: an efficient tool for designing active compounds with added intellectual property value Marco L. Lolli, University of Turin	
10:20-10:40 OC	Alkylphospholipid cures canine leishmaniasis. Discovery, pharmacological characterization and mechanism of action through genomic approach Maria Paola Costi , University of Modena and Reggio Emilia	Indole-based privileged structures via multicomponent reactions Sveva Pelliccia , Federico II University, Naples	
10:40-11:00 OC	Benzoylpiperidine-based compounds as reversible, potent and selective MAGL inhibitors Carlotta Granchi, University of Pisa	Nanotechnological approaches for biomedical applications Tatiana Da Ros, University of Trieste	
11:00-11:30	COFFEE BREAK		
11:30-11:50 OC	Scouting sigma receptor ligands as new tools for the treatment of neurodegenerative diseases and cancer Silvia Franchini , University of Modena and Reggio Emilia	Discovery of first-in-class inhibitors of APOBEC DNA cytosine deaminases Daniel Harki, University of Minnesota, USA	
11:50-12:10 OC	5-(1H-imidazol-2-yl)-4-methyl-4H-thieno[3,2-b]pyrrole derivatives as new potent reversible inhibitors of histone lysine demethylase (KDM1A/LSD1) Alessia Romussi , <i>The FIRC Institute of Molecular</i> <i>Oncology Foundation (IFOM), Milan</i>	Acyclic boronic acids mimic β -lactamases tetrahedral intermediates leading to broad spectrum inhibitors Donatella Tondi , University of Modena and Reggio Emilia	
12:10-12:30 OC	New stilbene-ammonium based nicotinic ligands: insights into alpha9-10 and alpha7 nAChR responses Francesco Bavo, University of Milan	Unexpected activity of bromiphen against prokaryotic and eukaryotic infectious agents Laura Fumagalli, University of Milan	
12:30-14:00	LUNCH		
14:00-15:00	POSTER SESSION (P1 – P53)		

14:00-15:00	POSTER SESSION (P1 – P53)	
	NPCF1 - Aula Magna	NPCF2 - Room 201
	Chairs: Girolamo Cirrincione, University of Palermo Alberto Massarotti	Chairs: Roberto Di Santo, La Sapienza University, Rome Salvatore Di Maro
15:00-15:30 KN	From ZINC to ZINClick: our way to explore the chemical space Alberto Massarotti, University of Piemonte Orientale, Novara	How we turned a weak and metabolically unstable CXCL12-mimic peptide into a stable, potent and selective CXCR4 antagonist: a successful peptide optimization story Salvatore Di Maro , University "Luigi Vanvitelli", Caserta
15:30-15:50 OC	Unveiling target associations for polypharmacology from analysis of crystallographic ligands in the protein data bank Luca Pinzi, University of Modena and Reggio Emilia	The understanding of the mechanism of action of pyridobenzothiazolones reveals mutations in the 3'-UTR: identification of a compound protecting mice from dengue-2 lethal infection Giuseppe Manfroni , University of Perugia
15:50-16:10 OC	Design and receptor interactions of A1 adenosine receptor agonists in the native ribose and conformationally-constrained (N)-methanocarba series Veronica Salmaso , National Institutes of Health, USA	TRPM8 channel modulators: identification of a selective superantagonist by structural simplification and hit refinement approaches Carmine Ostacolo , <i>Federico II University, Naples</i>
16:10-16:20 FC	Exploring the 1-(4-fluorobenzyl) piperazine scaffold for the development of new potent tyrosinase inhibitors Serena Vittorio , University of Messina	Design, synthesis and interaction studies of new compounds targeting the RNA-binding protein HuR Serena Della Volpe , University of Pavia
16:20-16:50	COFFEE BREAK	

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16:50-17:10 OC	Identification of a novel quinoline-based DNA demethylating compound highly potent in cancer cells Clemens Zwergel, La Sapienza University, Rome	Preclinical studies on the antitumor activity induced by novel oxadiazole Topsentin analogs against pancreatic cancer cells Daniela Carbone , University of Palermo, and VU University Medical Center, Amsterdam, The Netherlands
17:10-17:20 FC	A novel NO-photoresponsive polymeric platform as an enhancer of doxorubicin delivery Federica Sodano, University of Turin	Identification of RAD51-BRCA2 disruptors to inhibit homologous recombination and synergize with Olaparib as new anticancer drug discovery concept Greta Bagnolini , Italian Institute of Technology (IIT) and University of Bologna
17:20-17:30 FC	Multiscale approach to predict the binding mode of metallo β -lactamase inhibitors Silvia Gervasoni , University of Milan	Lead optimization of [1,2]oxazole[5,4-e]isoindoles as tubulin polymerization inhibitors Marilia Barreca, University of Palermo
17:30-17:40 FC	The mechanism of N-palmitoylethanolamine hydrolyis catalysed by N-acylethanolamine elucidated by QM/MM simulations Laura Scalvini, University of Parma	New enantiopure hydroxyethyl-piperazines as carbonic anhydrase inhibitors Niccolò Chiaramonte , University of Florence and University of Münster, Germany
18:00-19:30	DCF-SCI General Meeting (ASSEMBLEA DELLA DIVISIONE DI CHIMICA FARMACEUTICA)	

	Thursday 18 th July 2019, Ca' Granda	
	NMMC - Aula Magna - Chair: Marina Carini, University of Milan	
8:40-9:20 PL	Implementing molecular interaction kinetic analysis for drug discovery Helena Danielson, <i>Uppsala University, Sweden</i>	
	NMMC3 - Aula Magna	NMMC4 - Room 201
	Chairs: Marina Carini Claudio Dalvit	Chairs: Tiziano Bandiera, IIT, Genoa Barbara Gatto
9:30-10:00 KN	Ligand-based fluorine NMR screening: principles and applications in drug discovery Claudio Dalvit , <i>Lavis (TN)</i>	Druggable targets in nucleic acids Barbara Gatto, University of Padua
10:00-10:20 OC	Targeting Transient Receptor Potential Vanilloid 1 (TRPV1) for topical treatment of inflammatory skin disorders Silvio Aprile , University of Piemonte Orientale, Novara	Bio-inspired G-Quadruplex binders powered by multicomponent reactions Mariateresa Giustiniano , Federico II University, Naples
10:20-10:40 OC	Targeting Chagas disease using fragment-based lead discovery: validation and screening of FPPS enzyme Giulia Opassi , Uppsala University, Sweden	Targeting DNA G-Quadruplex structures: toward the development of new anticancer agents Rita Morigi , University of Bologna
10:40-11:10	COFFEE BREAK	
11:10-11:30 OC	Anopheles Gambie 3-hydroxykynurenine transaminase: LC-MS/MS and inhibition study of new potential inhibitors Erika Del Grosso , University of Piemonte Orientale, Novara	First asymmetric synthesis of NMS-P528, a new highly promising agent for antibody-drug conjugates generation Paolo Orsini , <i>Nerviano Medical Sciences S.r.l., Nerviano (MI)</i>
11:30-11:50 OC	Chemical characterization and evaluation of the antibacterial activity of essential oils from fibre-type Cannabis sativa I. (HEMP) Federica Pellati, University of Modena and Reggio Emilia	Integrins & p53: dual-targeting peptidomimetics to challenge glioblastoma multiforme Francesco Merlino, Federico II University
11:50-12:10 OC	Delving into Spirulina platensis peptidome: discovery of a novel decameric peptide with potent in vivo antihypertensive activity Eduardo Sommella, Federico II University, Naples	Direct preparation of melatonin derivatives via C-H activation/functionalization protocol, a useful tool in synthetic medicinal chemistry Michele Mari , University of Urbino
12:10-12:30 OC	Substituted acetamide as a cysteine trap for the development of novel irreversible tyrosine kinase inhibitors with antiproliferative activity Riccardo Castelli , University of Parma	Targeting the opioid receptors: biphalin analogues design Adriano Mollica, University "G. d'Annunzio" of Chieti-Pescara
12:30-14:00	LUI	исн

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14:00-15:00	POSTER SESSION (P54 – P110)	
	NPCF - Aula Magna - Chair: Giulio Vistoli, University of Milan	
15:00-15:30 KN	Toward the computational design of nanoreceptors with intelligent recognition abilities Marco De Vivo, <i>Istituto Italiano di Tecnologia (IIT), Genoa</i>	
	NPCF3 - Aula Magna	NPCF4 - Room 201
	Chairs: Federico Corelli, University of Siena Andrea Milelli	Chairs: Vincenzo Summa, Federico II University, Naples Roberta Costi
15:30-16:00 KN	Histone deacetylase inhibitors as multitarget ligands: new players in Alzheimer's disease drug discovery? Andrea Milelli, University of Bologna	The new era against neglected tropical diseases: fighting protozoa striking known and innovative targets Roberta Costi , <i>La Sapienza University, Rome</i>
16:00-16:20 OC	A fluorescent mitochondria-targeted NO photodonor activable with highly biocompatible green light Mariacristina Failla, University of Catania	Plasmodium falciparum dihydroorotate dehydrogenase inhibitors with hydroxypyrazole core: new scaffolds against malaria disease Agnese Pippione, University of Turin
16:20-16:40 OC	Design, synthesis and pharmacological characterization of selective blockers of 2- arachidonoylglycerol degradation Samuele Maramai , University of Siena and Sussex Drug Discovery Centre, UK	Structural insights for the development of novel antituberculars targeting the iron uptake pathway Matteo Mori , University of Milan
16:40-17:10	COFFEE BREAK	
17:10-17:30 OC	Predicting resistance of clinical Abl mutations using computational methods Davide Branduardi , Schrödinger, Cambridge, UK	Your manuscript through the Editor's eyes Joseph Unsay, Associate Editor, Chemistry - a European Journal, Wiley-VCH, Germany
17:30-17:50 OC	Development of a screening platform for the identification of small-molecule ligands for the reader protein PHF20 Alessandra Feoli , University of Salerno	Enriching the tool-box of NorA inhibitors by computer- aided scaffold hopping approach Rolando Cannalire , University of Perugia
17:50-18:00 FC	Memantine-ferulic acid hybrids as molecular probes for the study of Alzheimer's disease Filippo Basagni, University of Bologna	Discovery of a novel class of potent and non cytotoxic Trypanosoma brucei growth inhibitors Federica Ferrigno, IRBM S.p.A., Pomezia (Rome)
18:00-18:10 FC	Buffalo ricotta peptide reduces oxidative stress in intestinal epithelial cells and angiotensin II-induced vasoconstriction on mice mesenteric arteries by induction of Nrf2 translocation Giacomo Pepe , University of Salerno	Halogenated phenothiazines with anti-TB activity through the NDH-II inhibition Maria Giulia Nizi, University of Perugia
18:15-19:15	CELEBRATION OF THE 40 th ANNIVERSARY OF THE DIVISION OF MEDICINAL CHEMISTRY AND OF THE 100 th ANNIVERSARY OF "LA CHIMICA E L'INDUSTRIA"	
20:30	GALA DINNER - Villa Necchi Campiglio	

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	Friday 19 th July 2019,	Ca' Granda
	NMMC - Aula Magna - Chair: Gabr	iele Costantino, University of Parma
9:00-9:40 PL		st another Tool in the Toolbox ery Bus Ltd, Macclesfield, UK
9:40-10:10 KN	Unvealing uncharted pockets of IDO1 for novel therapeutic opportunities Antonio Macchiarulo, University of Perugia	
	NMMC5 - Aula Magna	NMMC6 - Room 201
	Chairs: Gabriele Costantino Antonio Macchiarulo	Chairs: Vincenza Andrisano, University of Bologna Stefano Alcaro, Magna Græcia University, Catanzaro
10:20-10:40 OC	Novel strategies to iron-starve Staphylococcus aureus: structural and dynamic characterization of the hemophore-Hb interaction Francesca Spyrakis, University of Turin	A new CXCL12/HMGB1 heterocomplex inhibitor Jacopo Sgrignani, Istituto di Ricerca in Biomedicina (IRB) - Università della Svizzera Italiana, Bellinzona (USI, Switzerland
10:40-11:00 OC	Rescuing defective CFTR applying a drug repositioning strategy Paola Fossa, University of Genoa	Developing glycoproteins as potential vaccines against tuberculosis Teodora Bavaro , University of Pavia
11:00-11:30	COFFE	E BREAK
11:30-11:50 OC	Can we improve drug design by illuminating druggable targets with BDDCS? Giovanni Bocci, University of New Mexico, Albuquerque, USA	Kinase inhibitors as potential neuroprotective agents: playing with the triazolotriazine scaffold on GSK-3 β and CK-1 δ Stephanie Federico, University of Trieste
11:50-12:10 OC	Flow nanoprecipitation of size-controlled D-leucine nanoparticles as excipient for spray-drying formulations Bruno Cerra , University of Perugia	Identification of chromeno[3,2-c]pyridine as suitable scaffold of novel multitarget-directed ligands for the treatment of Alzheimer's disease Rosa Purgatorio , University of Bari
12:10-13:10 CL	Integrated structural biology: approaching infectious and degenerative diseases Martino Bolognesi, <i>University of Milan</i> - Chair: Gabriele Costantino	
13:10-13:30		S and POSTER PRIZES
13:30		NCH
CL = Closing Lec OC = Oral Comn	nunication OL = Opening Lecture	KN = Keynote Lecture PL = Plenary Lecture
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