

# XIII Meeting Paul Ehrlich Euro-PhD Network & COST action OneHealthdrugs

Department of Chemistry & Technology for Drugs  
Sapienza University of Rome, June 17-19, 2024



## XIII Meeting Paul Ehrlich Euro-PhD Network & COST Action One Health approach to tackle neglected infectious diseases challenges

17-19 June 2024 Rome, ITALY

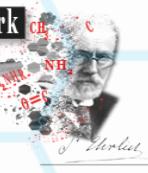
### Venue:

Department of Chemistry and Technology of Drugs  
La Sapienza University of Rome

## CONFERENCE PROGRAMME

Euro PhD Network

P Ehrlich  
MedChem



SAPIENZA  
UNIVERSITÀ DI ROMA



# XIII Meeting Paul Ehrlich Euro-PhD Network & COST action OneHealthdrugs

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## Day 1: Monday, June 17<sup>th</sup>

<b>2.00 - 3.00 p.m</b> CU019 building	Registration
<b>3.00 - 3.30 p.m</b> La ginestra (CU014)	<b>Opening and welcome</b>
<b>Chair: Elias Maccioni</b>	
<b>3.30 - 4.00 p.m</b> La ginestra (CU014)	<b>Plenary lecture</b> <b>Antivirals testing versus neurotropic viruses in single cell culture and in vitro models of the blood brain barrier</b> <b>Joachim J. Bugert</b> , Bundeswehr Institute of Microbiology, Munich, Germany
<b>4.00 - 4.30 p.m</b> La ginestra (CU014)	<b>Invited lecture</b> <b>Heterocycles Synthesis under Green Processes - Organometallic or Visible-light Catalysis.</b> <b>Philippe Belmont</b> , University Paris Cité, Paris, France
<b>4.30 - 5.00 p.m</b> La ginestra (CU014)	<b>Flash Poster Presentation</b> (FP1-FP12)
<b>5.00 - 5.30 p.m</b>	<b>Coffee break and Poster session</b>
<b>5.30 - 7.00 p.m</b> La ginestra (CU014)	<b>Oral Communication</b> (OC1-OC6)
<b>OC-1</b>	<b>B. Aguiar</b> Optimization and Characterization of Edaravone loaded Nanoparticles for the Treatment of ALS
<b>OC-2</b>	<b>B. Riss Yaw</b> Promising Antagonist for Neuropilin Receptor Targeting
<b>OC-3</b>	<b>F. Buonsenso</b> Recent Advances in Stimuli Responsive Iminosugars as Pharmacological Chaperones for Gaucher and Parkinson's Disease Treatment
<b>OC-4</b>	<b>G. Cernicchi</b> Potent 2-Phenyl-7-chloroquinazoline as new Mycobacterium avium Efflux Pump Inhibitors
<b>OC-5</b>	<b>A. Coco</b> Novel σ1R agonists/HDAC inhibitor codrugs modulating Tau protein
<b>OC-6</b>	<b>M. Coluccia</b> Design, synthesis and human monoamine oxidase inhibitory activity of 2 aroylbenzofuran derivatives: a new route towards hMAOs inhibition
<b>7.00 - 9.00 p.m</b> CU019 building	<b>Welcome Party</b>

## Day 2: Tuesday, June 18<sup>th</sup>, Morning session

	Chair: Serge van Calenbergh
9.00 - 9.30 a.m La ginestra (CU014)	<b>Plenary lecture</b> <b>Nucleotides as Antivirals - Development of membrane-permeable pronucleotides</b> <b>Chris Meier</b> , Universität Hamburg, Germany
	Chair: Maria Paola Costi - Daniela Secci
9.30 - 10.00 a.m La ginestra (CU014)	<b>Invited lecture</b> <b>Rohini R. Roopnarine</b> , School of Vet. Med, St. George's University, Grenada <b>COST Action Workshop “One Health approach to tackle neglected infectious diseases challenges”</b>
10.00-10.30 a.m La ginestra (CU014)	<b>E. Uliassi</b> introduction to COST YRI (young investigator and innovators) <b>Flash poster presentation Cost Action (FP13-FP26)</b>
10.30-11.00 a.m	<b>Coffee break and Poster session</b>
11.00-11.10 a.m La ginestra (CU014)	<b>S. Alcaro</b> The Chemothecca networking tool for the OneHealthDrugs Cost Action
	Chair: Stefano Alcaro
11.10 -1.10 p.m La ginestra (CU014)	<b>Oral communication</b> (OC7-OC14)
OC-7	<b>T. Quennesson</b> Design, synthesis and evaluation of reverse $\beta$ -aza fosmidomycin analogues as 1-deoxy-d-xylulose-5-phosphate reductoisomerase (DXR) inhibitors as antimicrobials
OC-8	<b>L. Tisseur</b> Modulating the 2-position of imidazo[1,2-a]pyrazine lead CTN1122 alters its antileishmanial properties and L-CK1.2 kinase inhibition profile
OC-9	<b>E. Sanna</b> Discovering potential Pan-hCoV inhibitors by targeting Nsp13 Helicase
OC-10	<b>M. Bufano</b> Novel FtsZ inhibitors identified by virtual screening and Adaptive Steered Molecular Dynamics
OC-11	<b>L. Márquez Cantudo</b> Insight into the catalytic mechanism of M17 leucine aminopeptidase through QM/MM computer simulations and selective mutagenesis
OC-12	<b>B. Nunes</b> Tailoring Quaternary Phosphonium Salts: Design, Synthesis, Antimicrobial and Cytotoxicity
OC-13	<b>M. Pacetti</b> Investigation of the Cycloheptathiophene-3-carboxamide Core for the Discovery of Influenza Virus Polymerase inhibitors
OC-14	<b>E. Van de Velde</b> Synthesis and phenotypical discovery of imidazo[2,1-f]triazine ribosides as broad spectrum antitrypanosomal agents
1.10 - 2.15 p.m	<b>Long coffee break</b>

## Day 2: Tuesday, June 18<sup>th</sup>, Afternoon session

Chair: Athina Geronikaki	
<b>2.15 - 3.15 p.m</b> Room A (CU019)	Meeting of PE Coordinators/ Free time
<b>3.15 - 5.15 p.m</b> La ginestra (CU014)	Oral Communication (OC15-OC22)
<b>OC-15</b>	<b>F. Falbo</b> Synthesis of new benzamilide derivatives as HDAC1 selective inhibitors for CRC treatment
<b>OC-16</b>	<b>A. Fanizzi</b> Rational optimization of the N-adamantyl-anthraniil amide structural core for the development of new selective ligands for the Cannabinoid subtype 2 Receptor (CB2R)
<b>OC-17</b>	<b>A. Fontana</b> Semisynthetic usnic acid-based compounds as promising antifungal agents
<b>OC-18</b>	<b>R. Purgatorio</b> Investigating the multi-target potential for complex diseases of the alkaloidcontaining pyrrolo[2,1-a]isoquinoline scaffold
<b>OC-19</b>	<b>P. Scìò</b> Benchmarking a Deep Generative Model for the Optimization of 3-Aroyl-1,4-diarylpyrroles (ARDAP)
<b>OC-20</b>	<b>A.R. Gomes</b> Discovery of a potent steroidoxime against breast and lung cancers
<b>OC-21</b>	<b>R. Astolfi</b> Quantitative Composition-Activity Relationships Through Machine Learning Algorithm. Application to Essential Oil Tested as Acetylcholinesterase Inhibitors
<b>OC-22</b>	<b>L. Lombardo</b> Designing an Effective Pharmacophore Model for Sigma 1 Receptor
<b>5.15 - 5.30 p.m</b> La ginestra (CU014)	Flash Poster communication (FP27-FP34)
<b>5.30 - 6.00 p.m</b>	Coffee break and Poster session
Chair: Romano Silvestri	
<b>6.00 - 7.15 p.m</b> La ginestra (CU014)	Oral communication (OC23-OC27)
<b>OC-23</b>	<b>E. Marchese</b> Revealing Polyphenols' Therapeutic Potential in Multiple Myeloma: Insights from Computational Studies on 20S Proteasome
<b>OC-24</b>	<b>G. Buttitta</b> Scalable microfluidic method for tunable liposomal production by a rational approach
<b>OC-25</b>	<b>I. Sardo</b> Natural F-series Pyrrolomycins: Microwave-assisted total synthesis, anticancer activity, and mechanism of action
<b>OC-26</b>	<b>C. Sarnari</b> Progresses in targeting mono-ADP ribosylating enzymes: towards selective inhibitors
<b>OC-27</b>	<b>B. Serambeque</b> Photodynamic therapy for endometrial cancer: can aldehyde dehydrogenase play a key role in eliminating cancer stem cells?
<b>8.30 p.m</b>	Social Dinner at Casale di Tor di Quinto

# Day 3: Wednesday, June 19<sup>th</sup>

Chair: Fernanda Borges	
<b>9.30 - 10.00 a.m</b> La ginestra (CU014)	<b>Plenary lecture</b> <b>Kick-start new drug design projects using computer-aided drug design</b> <b>Andrea Brancale</b> , University of Chemistry and Technology Prague, Czech Republic
<b>10.00-10.45 a.m</b> La ginestra (CU014)	<b>Oral communication</b> (OC28-OC31)
<b>OC-28</b>	<b>M. Garbagnoli</b> Discovery of SMol acting on HuR-RNA complexes. STD-NMR competition studies using Peptide Nucleic Acids
<b>OC-29</b>	<b>A. Gargano</b> Drug discovery of natural agents endowed with anticancer properties
<b>OC-30</b>	<b>R. Rocca</b> Targeting TERRA G-quadruplex: Design and Biophysical Evaluation of Chromene Scaffold Derivatives
<b>OC-31</b>	<b>E. L. Citriniti</b> Lithospermic Acid: Unveiling Its Potential as a Pancreatic Lipase and hCA V Inhibitor through In Silico and In Vitro Studies
<b>10.45- 1.15 a.m</b>	<b>Coffee break</b>
<b>11.15-12.45 a.m</b> La ginestra (CU014)	PE MedChem Euro-PhD Label communications PEA1-PEA6
<b>PEA-1</b>	<b>C. Gratteri</b> Development of multi-target agents with anti-cancer activity
<b>PEA-2</b>	<b>A. Olejarcz-Maciej</b> Multidirectional activity of new histamine and adenosine receptor ligands
<b>PEA-3</b>	<b>A. Onali</b> Application of computational and synthetic techniques for the identification of compounds with potential antitumour and antiviral activity
<b>PEA-4</b>	<b>V. Pontecorvi</b> From Hypoxia to Human Carbonic Anhydrases: design, synthesis, and evaluation of novel pyran-2-one based derivatives as anti-tumour and anti-inflammatory agents
<b>PEA-5</b>	<b>F. Procopio</b> Molecular Modelling for medicinal chemistry: Development and application
<b>PEA-6</b>	<b>P. Stępnicki</b> Optimization of virtual hits D2AAK3 and D2AAK2 in the search for new drugs for the treatment of schizophrenia
<b>12.45 - 1.15 p.m</b>	<b>Closing remarks</b>

Organised by:



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Società Indipendente di Ricerca e Sviluppo in Scienza dei Materiali

# Flash poster presentation List

<b>L. Acosta Benavides</b>	FP1	<b>G. Malpezzi</b>	FP18
<b>P. Pyka</b>	FP2	<b>M. Msanif</b>	FP19
<b>B. Bogdańska</b>	FP3	<b>L. Tagliazucchi</b>	FP20
<b>J. Bošković</b>	FP4	<b>J. Traen</b>	FP21
<b>L. Carosella</b>	FP5	<b>E. Tumminelli</b>	FP22
<b>C. El Hadri</b>	FP6	<b>M. Fesatidou</b>	FP23
<b>J. Ceramella</b>	FP7	<b>A. Speroni</b>	FP24
<b>F. Chiera</b>	FP8	<b>R. Listro</b>	FP25
<b>E. Fabbrizi</b>	FP9	<b>H. Akkari</b>	FP26
<b>M. Bilotta</b>	FP10	<b>R. Ghanem Kattoub</b>	FP27
<b>M. Fois</b>	FP11	<b>A. Gil Rivas</b>	FP28
<b>A. Fossati</b>	FP12	<b>S. Gulino</b>	FP29
<b>E. Uliassi</b>	FP13	<b>M. Papadraakaki</b>	FP30
<b>A.R. Alfenim</b>	FP14	<b>M. Sapeta</b>	FP31
<b>G. Atzeni</b>	FP15	<b>K. Czarnota-Łydka</b>	FP32
<b>L. Demuru</b>	FP16	<b>D. Secci</b>	FP33
<b>C. Lima</b>	FP17	<b>P. Wójcik</b>	FP34

## Poster contributions number

<b>A. Albano</b>	PC1	<b>E. Patacchini</b>	PC14
<b>M. Casciari</b>	PC2	<b>G. Pitasi</b>	PC15
<b>M. Castelôa</b>	PC3	<b>M. Crevar</b>	PC16
<b>M. Chieffallo</b>	PC4	<b>A. Raucci</b>	PC17
<b>D. Ciampoli</b>	PC5	<b>G. Ruggieri</b>	PC18
<b>A. Grudzińska</b>	PC6	<b>M. Santelli</b>	PC19
<b>E. D'Intino</b>	PC7	<b>K. Sdougkou</b>	PC20
<b>M. Guida</b>	PC8	<b>J. Sokolowska-Duda</b>	PC21
<b>M. Jastrzębski</b>	PC9	<b>J.L.Sousa Janela</b>	PC22
<b>S. Krols</b>	PC10	<b>K. Toufas</b>	PC23
<b>P. Kuropka</b>	PC11	<b>A. Van Hauwermeiren</b>	PC24
<b>C. Lambona</b>	PC12	<b>A. Zięba</b>	PC25
<b>M. Marra</b>	PC13		

