



4<sup>th</sup>  
INTERNATIONAL SYMPOSIUM ON  
PHARMACOLOGY AND  
MEDICINAL CHEMISTRY

4<sup>th</sup> ISPMcC

December 6-8, 2023

Scientific Program

Wednesday, December 6 <sup>th</sup> 2023	
9:00 h- 10:00 h	Opening Ceremony
10:00 h- 12:00 h	<b>Thematic Session: Drug Discovery</b> Chair: Dr. Carlos Alberto Manssour Fraga (Federal University of Rio de Janeiro, BR) <b>Lecture 1- LMW lead finding in pharmaceutical drug discovery: from compound libraries to chemical starting points and beyond.</b> <b>Speaker:</b> Daniel K. Baeschlin (Novartis Institutes for BioMedical Research, Novartis Campus, Switzerland) Chair: Dr. Patrícia Machado Rodrigues e Silva Martins (Fiocruz, Rio de Janeiro, BR) <b>Lecture 2 -Eurofarma: A Journey through Innovation.</b> <b>Speaker:</b> Dra. Júlia Lammoglia Monteiro (Drug Discovery Coordinator, Eurofarma, Brazil)
12:00 h- 14:00 h	Lunch



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<b>14:00 h- 16:00 h</b>	<b>Thematic Session: Highlights in Pharmacology and Medicinal Chemistry</b> Chair: Dr. Samuel dos Santos Valença (Federal University of Rio de Janeiro, BR) <b>Lecture 3- Pharmacological targeting of nanocompartments in COPD and Alzheimer”</b> <b>Speaker:</b> Martina Schmidt (University of Groningen, Netherlands) Chair: Dr. Luzineide W. Tinoco (Federal University of Rio de Janeiro, BR) <b>Lecture 4 – Developing new pre-clinical candidates for Chagas disease.</b> <b>Speaker:</b> Manu De Rycker (University of Dundee, UK)
<b>16:00 h- 17:00 h</b>	<b>PPGFQM’ Best Thesis Diploma Award</b> Chair: Dr. Lídia Moreira Lima (Federal University of Rio de Janeiro, BR) <b>Lecture 5- Development of multi-target compounds GPR40 agonists and HDAC6 inhibitors for the treatment of Alzheimer's disease.</b> <b>Speaker:</b> Dr. Pedro de Sena Murteira Pinheiro (PhD, awarded best thesis in 2021) Chair: Dr. João Alfredo de Moraes Gomes da Silva (Federal University of Rio de Janeiro, BR) <b>Lecture 6 - The LRA-DRC transition in aging: Establishing in vitro and in vivo models for determining novel molecular mechanisms and identifying pharmacological targets.</b> <b>Speaker:</b> Dra Raquel Costa da Silva (PhD, awarded best thesis in 2022)
<b>17:00 h- 20:00 h</b>	<b>Welcome cocktail and Chorinho show</b>



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<b>Thursday, December 7<sup>th</sup> 2023</b>	
<b>9:00 h- 10:00 h</b>	<b>Chat with speakers (previously booked)</b>
<b>10:00 h- 12:00 h</b>	<b>Thematic Session: Drug Discovery</b> Chair: Dr. Floriano Paes Silva Junior (Fiocruz, Rio de Janeiro, BR) <b>Lecture 1- Artificial Intelligence in health: case studies in drug development</b> <b>Speaker:</b> Dra. Nuria E. Campillo (Spanish National Research Council (CSIC), Madrid, ES) Chair: Dr. Newton Gonçalves de Castro (Federal University of Rio de Janeiro, BR) <b>Lecture 2 – Current Trends in Drug Discovery: What Can We Learn from Bibliometric Analysis?</b> <b>Speaker:</b> María José Dávila-Rodríguez (Life Sciences Solutions Consultant, Elsevier)
<b>12:00 h- 14:00 h</b>	<b>Brunch, Poster Session, and flash presentation (videos)</b>
<b>14:00 h- 16:00 h</b>	<b>Thematic Session: Highlights in Pharmacology and Medicinal Chemistry</b> Chair: Dr. Patrícia Dias Fernandes (Federal University of Rio de Janeiro, BR) <b>Lecture 3- Development and characterization of kinase sparing TPX2-tethering Aurora Kinase A ligands for the therapy of cancer</b> <b>Speaker:</b> Lars Zender (University Hospital Tübingen, Tübingen, Germany) Chair: Dr. Mônica Macedo Bastos (Fiocruz, Rio de Janeiro, BR) <b>Lecture 4 - Optimizing Target Residence Time: Type 1.5 Inhibitors for p38a MAP Kinase Application to treat Colorectal Cancer</b> <b>Speaker:</b> Stefan Laufer (Eberhard-Karls-Universität Tübingen, Tübingen, Germany)



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<b>16:00 h- 17:30 h</b>	<b>Oral Communication</b> (10 min + 5 min discussion) Chair: Dr. Leandro Miranda Alves (Federal University of Rio de Janeiro, BR) <ol style="list-style-type: none"><li>1. Marissa El Hajje. Title: New Synthesized Chalcones in Cancer: Mechanism of Cell Death and Potency Identification</li><li>2. Lucas Silva Franco. Title: Investigation of biological activities of LASSBio Chemical Library to explore its pharmacological space</li><li>3. Carolinne Souza de Amorim. Title: Effect of extracellular vesicles derived from tumor-associated neutrophils on MDA-MB-231 cells</li></ol> Chair: Dr. Manuella Lanzetti Daher de Deus (Federal University of Rio de Janeiro, BR) <ol style="list-style-type: none"><li>4. Juliana Fatima Vilachã Madeira Rodrigues dos Santos. Title: Exploring the mutational landscape of ROS1 mutations with a combination of in vitro and in silico techniques</li><li>5. Alexsandro Tavares Figueiredo Junior. Title: Potassium bixinate as a novel Nrf2/ARE activator drug-candidate: ROS scavenger and anti-inflammatory properties.</li><li>6. Philippe Vangrieken. Title: Dietary methylglyoxal improves insulin sensitivity and vascular function in high-fat diet-induced type 2 diabetic mice</li></ol>
<b>17:30 h- 18:00 h</b>	<b>Chat with speakers (previously booked)</b>
<b>Friday, December 8<sup>th</sup> 2023</b>	
<b>9:00 h- 10:00 h</b>	<b>Chat with speakers (previously booked)</b>



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<b>10:00 h- 12:00 h</b>	<p><b>Thematic Session: Highlights in Pharmacology and Medicinal Chemistry</b> Chair: Dr. Lucienne da Silva Lara Morcillo (Federal University of Rio de Janeiro, BR)</p> <p><b>Lecture 1- Development of pharmacotherapy against accelerated vascular aging</b> <b>Speaker:</b> Dr. Anton Roks (Erasmus MC. Dept. of Internal Medicine, Vascular Aging Center, Erasmus University Rotterdam)</p> <p>Chair: Dr. Arthur Eugen Kummerle (Federal Rural University of Rio de Janeiro, BR)</p> <p><b>Lecture 2 – Macrocyclic Tetrapeptides – Versatile Compounds for Potential Drug Development</b> <b>Speaker:</b> Dra. Jane V. Aldrich (Department of Medicinal Chemistry, College of Pharmacy, University of Florida, USA)</p>
<b>12:00 h- 14:00 h</b>	<p><b>Brunch, Poster Session, and flash presentation (videos)</b></p>
<b>14:00 h-16:00h</b>	<p><b>Oral Communication</b> (10 min + 5 min discussion) Chair: Dr. Cláudia Lucia Martins da Silva (Federal University of Rio de Janeiro, BR)</p> <ol style="list-style-type: none"><li>1. Jordano Ferreira Reis. Title: Discovery of new piperine-based antischistosomal efflux pump inhibitors</li><li>2. Evelyn Santana Bezerra. Title: Capillary bioreactors based on nucleoside hydrolase from <i>Leishmania donovani</i>: a direct approach for ligand identification and characterization</li><li>3. Mayara Amorim Romanelli Ferreira dos Santos. Title: Wedelolactone reverts acute kidney injury resulting from <i>Bothrops jararacussu</i> envenomation</li></ol> <p>Chair: Dr. Luis Eduardo Menezes Quintas (Federal University of Rio de Janeiro, BR)</p>



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	<ol style="list-style-type: none"><li>4. Soroush Mohammadi Jouabadi. Title: Chronic Colchicine Treatment Mitigates Vascular Stiffness by Enhancing Vascular Vasomotor Function: A Translational Study</li><li>5. Gabriela Morais de Oliveira Barros. Title: Effect of in vitro aging and its impact on bufalin response in epithelial renal cells</li><li>6. Thiago Moreira Pereira. Title: Design and synthesis of 1,2,4-triazoles: structural exploration in the inhibition of GSK-3<math>\beta</math> for the treatment of Alzheimer's Disease</li></ol>
<b>16:00 h-17:30h</b>	<p><b>Closing Lecture, Tribute to Professor François G. Noël and Closing Session</b> Chair: Lídia Moreira Lima (Federal University of Rio de Janeiro, BR) <b>Lecture 3- Kidney organoids for disease models and therapeutic development</b> <b>Speaker:</b> Dr. Ryuji Morizane (Massachusetts General Hospital and Harvard Medical School, Boston, USA)</p>
<b>20:00 h</b>	<b>Dinner (entertainment)</b>