



MuTaLig COST ACTION CA15135
4th WG meeting 2020 Izmir (Turkey)
March, 5-6th 2020



4th WG meeting – MuTaLig COST Action

Faculty of Pharmacy, Ege University, March 5-6th 2020

Final status of WG activities within the MuTaLig COST Action



Final program

Thursday March 5th 2020

- 8.30 Registration
- 9.00 **Introduction to the MuTaLig COST Action 4th WG meeting**
Günay YETİK-ANACAK (MC member Turkey and local organizer) – Ege University (Turkey)
Stefano ALCARO (CA15135 Chair) - Università “Magna Græcia” di Catanzaro (Italy)
Ayfer YALÇIN (Dean of Faculty of Pharmacy) – Ege University (Turkey)
Necdet BUDAK (Rector) – Ege University (Turkey)

Session I “Multi-targeting agents against cancer and infections”

Moderator: Rita GUEDES – (MC member Portugal) University of Lisbon (Portugal)

- 09.30 **OC1 Epigenetic Multitargeting in Cancer: Design, Synthesis And Biological Evaluation of Novel Inhibitors**
Filipa RAMÍLO GOMES – University of Lisbon, Lisbon (Portugal)
- 09.45 **OC2 Repositioning of [1,6] Naphthyridines as Antiviral Agents on HSV-1**
Alessandra MONTALBANO – University of Palermo (Italy)
- 10.00 **OC3 Indolocarbazole maleimides with dual inhibition of kinases and topoisomerase I**
Florence MCCARTHY – (MC member Ireland) University College, Cork (Ireland)
- 10.15 **OC4 The effect of New Synthesized Resveratrol Derivate H1 on angiogenesis**
Emine Nur ÖZBEK – Ege University, İzmir (Turkey)
- 10.30 **OC5 A Comparative Study of The Antiangiogenic Activity of Hydroxytyrosyl Alkyl Ethers as Multitargeted Bioactive Compounds**
Miguel Ángel MEDINA – University of Málaga, Málaga (Spain)
- 10.45 **OC6 Multitarget Covalent Inhibitory Property of Klavuzons**
Ali ÇAĞIR – Izmir Institute of Technology (IYTE), İzmir (Turkey)
- 11.15 **OC7 High throughput in-vitro early toxicity and off-target liability assays to rapidly identify limitations of novel thromimetics**
Sheraz GUL – (MC substitute Germany) Fraunhofer Institute, Hamburg (Germany)

11.30 **OC8 Toward Multitarget DNA Gyrase Inhibitors Possessing Antibacterial Activity**

Danijel KIKELJ – (WG1 leader) University of Ljubljana (Slovenia)

11.45 *Coffee break*

Reports of the WG leaders

12.15 **Moderator: Fernanda BORGES – (Vice-Chair and MC member Portugal) University of Porto (Portugal)**

Danijel KIKELJ – (WG1 leader) University of Ljubljana (Slovenia)

Eugenio GAUDIO – (WG2 leader) Oncology Research Institute, Bellinzona (Switzerland)

Sharon BRYANT – (WG3 leader) Inte:Ligand GmbH, Vienna (Austria)

Hanoch SENDEROWITZ – (WG4 leader) Bar-Ilan University, Ramat-Gan (Israel)

13.00 *Lunch and poster session*

Session II “Multi-targeting agents against neurodegenerations”

Moderator: Fernanda BORGES – (Vice-Chair and MC member Portugal) University of Porto (Portugal)

14.30 **OC9 Natural Product Hybrids are Potent Neuroprotectants in Vitro And in Vivo: Multi-Target Ligands with Unknown Targets?**

Michael DECKER – University of Würzburg (Germany)

14.45 **OC10 Targeting Alzheimer’s Disease with 4-Aminochromane Derivatives**

Anthony BURKE – University Evora (Portugal)

15.00 **OC11 Combination of Adenosine Antagonism with Additional H3R Antagonism for the Treatment of Parkinson’s Disease**

Holger STARK – (MC member Germany) Heinrich Heine University of Duesseldorf (Germany)

15.15 **OC12 Histamine H3 receptor antagonism as a valuable component for multitarget directed ligands (MTDL)**

Wieslawa Agnieszka FOGEL – (MC member Poland) Medical University of Lodz (Poland)

15.30 **OC13 Repurposing Compounds Designed to Treat Mental Diseases as Potential Drugs Against Neurodegenerative Diseases**

Agnieszka A. KACZOR – Medical University of Lublin (Poland)

15.45 **OC14 Mapping the chromone-3- phenylcarboxamides pharmacophore: structure-activity-toxicity and efflux transport studies**

Francesco Mesiti – Università “Magna Græcia” di Catanzaro (Italy)

16.00 *Coffee break*

Session III “Multi-targeting agents against vascular diseases or oxidative stress”

Moderator: Florence MCCARTHY – (MC member Ireland) University College, Cork (Ireland)

16.30 **OC15 Interplay between superoxide dismutase, catalase and peroxidase activities for salen-manganese complexes**

Marcelino MANEIRO – University of Santiago de Compostela, Santiago de Compostela (Spain)

16.45 **OC16 Mitochondriotropic Cinnamic Acid Antioxidant Improves Cellular Resistance to Stress**

Ricardo AMORIM – University of Porto, Porto (Portugal)

17.00 **OC17 Vascular effects of pioglitazone related to perivascular adipose tissue (PVAT)**

Deniz KALELİ DURMAN – Istanbul University, İstanbul (Turkey)

17.15 **OC18 The journey from ethnobotanical studies to pharmacological target: The effect of imperatorin and isoimperatorin on penile relaxation**

Nazlıcan BELEN – Ege University, Izmir (Turkey)

17.30 **OC19 A Potential Repositioning of Trimetazidine for the Treatment of Bladder Dysfunction: Effects on Mouse Detrusor Contractility and Cytoprotection**

Yeşim KAYA YAŞAR – Karadeniz Technical University, Trabzon (Turkey)

17.45 *Transfer to gala dinner (optional)*

Friday March 6th 2020

Session IV: “New methods in Drug Discovery, in silico pharmacology and drug repurposing”

Moderator: Holger STARK – (MC member Germany) Heinrich Heine University of Duesseldorf (Germany)

9.00 **OC20 A Lab-on-a-Molecule with an Enhanced Fluorescent Readout on Detection of Three Chemical Species**

- David C. MAGRI – (MC member Malta) University of Malta (Malta)
- 9.15 **OC21 New screening libraries arising from the Prestwick Chemical Drug Library**
Marie Louise JUNG – Prestwick Chemical, Strasbourg (France)
- 9.30 **OC22 Lead to Target: A Computational Approach to Identify Possible Protein Targets of Molecules with Known Experimental Biological Activity**
Sérgio F. SOUSA – University of Porto (Portugal)
- 9.45 **OC23 Computational Approaches in Multi-target Drug Discovery**
Rita GUEDES – (MC member Portugal) University of Lisbon (Portugal)
- 10.00 **OC24 Multi-Target Ligand Design is Ripe for New Methods**
Alfonso T. GARCÍA-SOSA – (MC member EE, communication manager) University of Tartu (Estonia)
- 10.15 **OC25 New Inhibitors of the BmrA Pump Identified Through Virtual Screening**
Onur SERÇİNOĞLU – Recep Tayyip Erdogan University, Rize (Turkey)
- 10.30 *Coffee break*
- 11.00 **Round table on perspectives of the MuTaLig community**
Moderator: Stefano Alcaro (CA15135 Chair) - Università "Magna Græcia" di Catanzaro (Italy)
Antonio LUPIA – (FAD manager) Net4Science academic spinoff, Catanzaro (Italy)
Fernanda BORGES – (Vice-Chair and MC member Portugal) University of Porto (Portugal)
Danijel KIKELJ – (WG1 leader) University of Ljubljana (Slovenia)
Alfonso T. GARCÍA-SOSA – (MC member EE, communication manager) University of Tartu (Estonia)
Maria Laura BOLOGNESI – (STSM coordinator) University of Bologna (Italy)
- 12.00 **Concluding remarks and best poster awarding ceremony**
Günay YETİK-ANACAK (MC member Turkey and local organizer) – Ege University (Turkey)
- 12.30 *Lunch and farewell*
- 13.30 *Transfer to Yesilova Hoyuk Visiting Center*
- 15.00 *Izmir City Tour*

Poster information: Panels for posters have PORTRAIT orientation. The maximum dimensions allowed are 70 cm width x 90 cm tall.