

## Joint Annual COST Action meeting – Porto (PT), September 22–24 2017

"Portuguese Oncology Institute" of Porto (IPO Porto)

Rua Dr. António Bernardino de Almeida – 4200–072 Porto, Portugal

		A bridge between EpiChemBio and MuTaLig COST Actions				
www.epichembio.eu www.mutalig.e						
Friday September 22 <sup>nd</sup> 2017						
8:30	Registration and poster setup					
9:00	Introd	uction to the Joint COST Action annual meeting				
Fernanda BORGES – University of Porto (Portugal)						
	A GANESAN (CA1406 Chair) – University of East Anglia, Norwich (UK)					
	Stefan	o ALCARO (CA15135 Chair) – Università "Magna Græcia" di Catanzaro (Italy)				
	Session I "EpiChemBio: DNA and epigenetics"					
	Moderator: Maria Berdasco MENENDEZ (Spain)					
9:30	SCE1	Non-B DNA structures, as G-quadruplex and R loops, interact with each other regulating basic DNA				
		functions and genome instability in human cancer cells				
		Giovanni CAPRANICO – University of Bologna (Italy)				
9:45	SCE2	Molecular tools for targeted covalent functionalization and light-induced activation of biopolymers				
		Saulius KLIMASAUSKAS – University of Vilnius (Lithuania)				
10:00	SCE3	Direct and indirect targeting of DNA methylation in cancers				
		Marie LOPEZ – CNRS, Toulouse (France)				
10:15	SCE4	Anti-Neoplastic Activity of Newly Synthetized DNMT inhibitors in Renal Tumors				
		Ines GRACA – Portuguese Oncology Institute of Porto (Portugal)				
10:30	SCE5	Targeted DNA demethylation in human cells by 5-methylcytosine excision				
		Jara Teresa PARILLA—DOBLAS — University of Cordoba (Spain)				
10:45	SCE6	Epigenetic and antitumor effects of platinum(IV)-octanoato conjugates				
		Viktor BRABEC – Czech Academy of Sciences, Brno (Czech Republic)				
11:00	SCE7	The relation between famine exposure and schizophrenia explained by cross-chromosome regulation				
		of DUSP22 promotor hypermethylation				
		Marco BOKS – University of Utrecht (Netherlands)				
11:15	Coffee	break and poster session				
		Session II "MuTaLig on CNS part A"				
		Moderator: Fernanda BORGES (Portugal)				
11:45	PLM1	Multi-target ligands: more effective and sustainable drugs for Alzheimer's disease?				
		Maria Laura BOLOGNESI, "Alma Mater" Università di Bologna, Bologna (Italy)				
12:15	PLM2	Development of donecopride as a potential multi–target directed ligand for the treatment of Alzheimer's				
		Christophe ROCHAIS, CERMN, Université de Caen Normandie, Caen, (France)				

Joana REIS, University of Porto (Portugal) 13:00 SCM2 From cholinesterase inhibitors to multifunctional anti-Alzheimer's agents with anti-aggregating properties Barbara MALAWSKA, Jagiellonian University Collegium Medicum, Kraków, (Poland) 13:15 Lunch

12:45 SCM1 The role of the chromone scaffold in the development of novel multitarget agents in Alzheimer's

Session III "EpiChemBio: Histone acylation and deacylation" **Moderator: Philippe BERTRAND (France)** 

Targeting protein lysine acetylation in inflammatory lung diseases 14:15 SCE8

Frank DEKKER – University of Groningen (Netherlands)

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14:30	SCE9	Challenges in targeting histone acetyltransferases – A KAT8 case story
14:45	SCE10	Hannah WAPENAAR – University of Groningen (Netherlands)  Exploring Conformational Space of Sirtuin 2– Molecular Dynamic Approach
14.43	<u>JCL10</u>	Katarina NIKOLIC – University of Belgrade (Serbia)
15:00	<u>SCE11</u>	In silico identification of isoform—selective HDAC inhibitors
		Kemal YELEKCI – Kadir Has University, Istanbul (Turkey)
15:15	SCE12	Revisiting non–ribosomal macrocyclic peptides: Discovery of class I HDAC inhibitors with picomolar affinities
		Christian OLSEN – University of Copenhagen (Denmark)
15:30	SCE13	Erasing the eraser: Treating parasitic disease with epigenetics
		Remy NAROZNY – University of East Anglia (UK)
15:45	SCE14	Design and synthesis of novel Histone Deacetylase 6 zinc binding groups
16:00	Coffoo	Leandro AVELAR – University of Düsseldorf (Germany) break and poster session
10.00	Cojjee	Session IV "MuTaLig on CNS part B"
		Moderator: Rona RAMSAY (UK)
16:30	PLM3	Pain and Depression. Can be treated together?
17.00	DINAA	Dariusz MATOSIUK, Medical University, Lublin (Poland)
17:00	PLM4	Histamine H3 receptor antagonists acting as monoamine oxidase a/b inhibitors  Holger STARK, Heinrich Heine University Düsseldorf, (Germany)
17:30	SCM3	Novel multi-target ligands of aminergic GPCRS as potential antipsychotics
		Agnieszka KACZOR, University of Lublin (Poland)
17:45	SCM4	Targeting A <sub>1</sub> or/and A <sub>2a</sub> adenosine receptors and MAO–B to treat neurodegenerative diseases
		Katarzyna KIEĆ-KONONOWICZ, Jagiellonian University Collegium Medicum, Kraków, (Poland)
		Saturday September 23 <sup>rd</sup> 2017
		Session V "MuTaLig on Cancer and other targets"  Moderator: Danijel KIKELJ (Slovenia)
9:00	PLM5	Kinetic, structural and biochemical characterization of asparagine synthetase inhibitors
		Nigel RICHARDS, University of Cardiff (UK)
9:30	SCM5	Crosstalk between PDK1 and aurora kinase A: development of small multi-target agents
9:45	SCM6	Simona SESTITO, Università di Pisa (Italy)  Diindolylmethanes (DIMs) as novel anti-cancer agents targeting GPR84 and cannabinoid receptors
3.43	<u> 3CIVIO</u>	Thanigaimalai PILLAIYAR, University of Bonn (Germany)
10:00	SCM7	ABAD (17β–HSD10) inhibitors and their effect on key mitochondrial enzymes in the research of
		neurodegenerative diseases or cancer treatment
10.15	CCNAO	Kamil MUSILEK, University of Hradec Kralove (Czech Republic)
10:15	<u>SCIVI8</u>	Development of an Antibody Radiolabeled Drug Conjugate (ARDC) using 195mPt–Carboplatin for Theranostic Approach in Ovarian Cancer
		Lisa-Maria REČNIK, CNRS & Université de Montpellier (France)
10:30	SCM9	Resveratrol analog induces hydrogen sulfide formation and vasorelaxation
40.45	o ((	Gunay YETIK-ANACAK, Ege University, Izmir (Turkey)
10:45	Coffee	break and poster session Session VI "EpiChemBio: Histone Methylation"
		Moderator: A. GANESAN (UK)
11:15	PLE1	Title
46.5-	0.0	Name SURNAME – Affiliation (Country)
12:00	<u>SCE15</u>	From DNA methyltransferase transition state analogues to chemical scaffolds for the inhibition of

**JOINT ANNUAL MEETING CA15135** 

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Paola ARIMONDO – CNRS, Toulouse (France)

		CM1406 JOINT ANNUAL MEETING CA15135
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12:15	SCE16	The quinazoline ring as a privileged scaffold in epigenetic (poly)pharmacology: from dual G9a methyltransferase/LSD1 demethylase inhibitors to selective LSD1 inhibitors  Dante ROTILI – University La Sapienza (Italy)
12:30	SCE17	The Clinically Used Iron Chelator Deferasirox is an Inhibitor of Epigenetic JumonjiC Domain—Containing Histone Demethylases
12:45	<u>SCE18</u>	Martin ROATSCH – University of Leipzig (Germany)  Histone H3K27 Demethylase JMJD3 as a Therapeutic Target in Cancer  Patrick PERRIGUE – Polish Academy of Sciences, Poznan (Poland)
13:00		BLIMP1 and EZH2 in antibody secreting malignancies  Erna MAGNUSDOTTIR – University of Reykjavik (Iceland)
13:15	Lunch	Session VII "MuTaLig on in silico methods"  Moderator: Thierry LANGER (Austria)
14:15	SCM10	Updates about the Chemotheca tool: status of implementation and use Stefano ALCARO – Università "Magna Græcia" di Catanzaro (Italy)
14:30	PLM6	Fernanda BORGES – University of Porto (Portugal) Selective 3D–Pharmacophore models Targeted for Aldose Reductase: Medicinal Chemistry Decision Support and Activity Profiling
15:00	SCM11	Sharon BRYANT, Inte:Ligand GmbH, Vienna (Austria) Carbonic Anhydrase VA for the treatment of obesity: in silico identification of new inhibitors and prediction of anti-obesity side effects of FDA-approved drugs
15:15	SCM12	Isabella ROMEO – Università "Magna Græcia" di Catanzaro (Italy)  Pharmacophore models for identification of DNA gyrase and topoisomerase IV inhibitors and evaluation of their off-target binding
15:30	<u>SCM13</u>	Tihomir TOMAŠIČ— University of Ljubljana (Slovenia)  Identification of G-quadruplex DNA/RNA binders: structure-based virtual screening and biophysical characterization
15:45	SCM14	Carmine TALARICO – Università "Magna Græcia" di Catanzaro (Italy)  BitterPredict – A Tool for Predicting Bitterness of Drug candidate from its Chemical Structure  Ayana DAGAN WIENER – The Hebrew University of Jerusalem (Israel)
16:00	Coffee	break and poster session  Session VIII "EpiChemBio: Programming and Reprogamming"
16:30	SCE20	Moderator: Carmen JERONIMO (Portugal)  Induction of Antitumor and Antifungal agents by Epigenetic Modifiers in the endophytic fungal strain  Dimorphosporicola tragani
16:45	SCE21	Jose Ruben TORMO – MEDINA Foundation, Grenada (Spain)  Meta–analysis of commonly deregulated miRNAs in oral cancer  Katarina ZELJIC – University of Belgrade (Serbia)
17:00	SCE22	RESPONSE project: Chromatin regulators as biomarkers and combinatorial drug targets in colorectal cancer therapy
17:15	SCE23	Sonia FORCALES – Germans Trias i Pujol Research Institute, Badalona (Spain)  Studying the Epigenetic Mechanisms and Biomarkers in Neuropsychiatric Diseases  Roberto Carlos AGIS—BALBOA – University of Vigo (Spain)
17:30	SCE24	Environmental programming of respiratory allergy: utility of a child's spit epigenome  Sabine LANGIE – Flemish Institute for Technological Research, Mol (Belgium)
17:45	SCE25	May epigenetics explain the serine proteases involvement in grapevine resistance to <i>Plasmopara viticola</i> ?  Joana FIGUIREIDO — University of Lisbon (Portugal)



SCE26 Epigenetic biomarkers for liquid biopsy-based testing of prostate cancer patients Sonia JARMALAITE, Vilnius University (Lithuania)

Sunday September 24<sup>th</sup> 2017

Session IX "EpiChemBio & MuTaLig common topics"					
Moderator: Paola ARIMONDO (France)					
9:00	SCC1	Dual targeting with epigenetics			
		A GANESAN, University of East Anglia (UK)			
9:15	SCC2	Cross metathesis for the synthesis of HDAC inhibitors. Potential in multitarget drug design			
		Philippe BERTRAND, University of Poitiers (France)			
9:30	SCC3	Photoactivatable platinum(iv) complex targeting genomic DNA and histone deacetylases			
		Jana KASPARKOVA, Czech Academy of Sciences, Brno (Czech Republic)			
9:45	SCC4	New chalcone derivatives as HAT/HDAC modulators			
		Leonardo PALAFERRI –University La Sapienza, Rome (Italy)			
10:00	SCC5	Hybrid LSD1/JMJ Inhibitor As Therapeutic Option In Cancers With Deregulated Hormone–Receptor			
		Signalling			
		Rosaria BENEDETTI – University La Sapienza (Italy)			
10:15	Coffee	break and poster session			
		Session X "EpiChemBio & MuTaLig common topics"			
		Moderator: Stefano ALCARO (Italy)			
10:45	PLC1	Mitochondrial Toxicology in Drug Discovery and Development			
		Paulo OLIVEIRA, University of Coimbra (Portugal)			
11:15	SCC6	Naphthalene diimides and DNA: a variegate friendship			
		Clauda SISSI, Università di Siena (Italy)			
11:30	SCC7	Click chemistry a tool for medicinal chemistry			
		Christian CAVÉ, Université Paris Sud & CNRS, Châtenay–Malabry (France)			
11:45	SCC8	Multi-level strategy for analysis of bioactive drug conformations			
		Sanja ZIVANOVIC, Institute for Research in Biomedicine, Barcelona (Spain)			
12:00	SCC9	Anticancer chalcones, selective or multitarget ligands?			
		Roman BART, Ghent University (Belgium)			
12:15	SCC10	TBC			
		Maurizio BOTTA, Università di Siena (Italy)			
Final Session: "EpiChemBio & MuTaLig round table and conclusions"					
Moderators Marianne ROTS (Netherlands) and Maurizio BOTTA (Italy)					
12:30					

A GANESAN (CA1406 Chair) – University of East Anglia, Norwich (UK) Stefano ALCARO (CA15135 Chair) – Università "Magna Græcia" di Catanzaro (Italy) Fernanda BORGES – University of Porto (Portugal)

Lucia FORZI – Science Officer CA1406 & CA15135 COST Actions, Brussels (Belgium)

Marie Louise JUNG, Prestwick Chemical, Strasbourg (France)

13:15 Lunch

14:00 MC meetings EpiChemBio

15:00 MC meetings MuTaLig



