



# UNIMORE

UNIVERSITÀ DEGLI STUDI DI  
MODENA E REGGIO EMILIA

## Drug Development for Neglected Parasitic Diseases Funded projects



15<sup>th</sup>-16<sup>th</sup> June 2016, COMPLESSO SAN GEMINIANO, Via San Geminiano 3, 41121 Modena, Italy

### SYNERGY MEETING OF: FP7-HEALTH-2013-2.2.4-2

**Wednesday**    **15<sup>th</sup> June 2016**

**SPEAKER (s)**

9:00-9:15	Welcome to participants	Prof. Angelo Oreste Andrisano rector of UNIMORE Prof. Daniela Quaglino head of Dep. of Life Sciences UNIMORE
9:15-9:20	Welcome and general announcements	Maria Paola Costi
9:20-10:00	Project overviews All coordinators (10 min each)	A-ParaDDisE (Raymond J. Pierce) KINDReD (Jane MacDougall) NMTrypI (Maria Paola Costi) PDE4NPD (Rob Leurs)
10:00-10:30	Clinical testing of drug candidates in affected countries	Ole Olesen EDCTP
<b>Topic 1: The Chemical Space</b>		
<b>Session1</b>		<b>Chairs:</b> <b>Theodora Calogeropoulou</b> <b>Rob Leurs</b>
10:30-10:45	Discovery of Anti-Trypanosomal and Anti-Leishmanial Compounds from Natural Sources	Stephen Wrigley NMTrypI
<b>10:45-11:15</b>	<b>Coffee break</b>	
11:15-11:30	Chemistry of HME inhibitors and focused libraries	Antonello Mai A-ParaDDisE
11:30-11:45	Profiling of flavonol derivatives and thiadiazoles for the development of anti trypanosomatidic drugs.	Chiara Borsari Pasquale Linciano NMTrypI
11:45-12:00	Round table and discussion	Chairs and Speakers

<b>Session 2</b>		<b>Chairs:</b> <b>David Bailey</b> <b>Jair Siqueira-Neto</b>
12:00-12:15	Data management for NTD and the Synergy context.	Wolfgang Müller NMTrypl
12:15-12:35	Discussion	Chairs and Speaker
<b>Topic 2: Hit generation</b>		
<b>Session 3</b>		<b>Chairs:</b> <b>Jamal Khalife</b> <b>Jair Siqueira-Neto</b>
12:35-12:50	Phenotypic screening using inhibitor libraries	Jamal Khalife A-ParaDDisE
12:50-13:05	Advancements of hits and targets towards the trinity	Terry Smith KINDReD
<b>13:05-14:05</b>	<b>Lunch</b>	
14:05-14:20	Complementation of protozoan and helminth phosphodiesterases in a model parasite, <i>Trypanosoma brucei</i> , allows rapid functional and pharmacological studies in a cellular system	Harry de Koning PDE4NPD
14:20-14:35	Round table and discussion	Chairs with speakers
<b>Session 4</b>		<b>Chairs:</b> <b>Antonello Mai</b> <b>Terry Smith</b>
14:35-14:50	Recombinant expression and 3D-structure analysis of epigenetic targets from eukaryotic parasites"	Martin Marek A-ParaDDisE
14:50-15:05	Searching for novel drugs to treat schistosomiasis	Carmen Gil PDE4NPD
15:05-15:20	IOTA & Phosphodiesterase R&D: providing FBDD and MIPS technology to underpin NPD drug discovery	David Bailey PDE4NPD
15:20-15:35	HTS of epigenetic enzymes from parasites and follow-up testing of hit compounds	Johan Schultz A-ParaDDisE
15:35-15:55	Round table and discussion	Chairs and Speakers
<b>15:55-16:25</b>	<b>Coffee break</b>	
<b>Topic 3: Hit to lead</b>		
<b>Session 5</b>		<b>Chairs:</b> <b>Anabela Cordeiro da Silva</b> <b>Jérôme Estaquier</b>
16:25-16:40	Systems biology strategies for target and biomarker identification in Kinetoplastids.	Joachim Clos NMTrypl
16:40-16:50	Discussion	

16:50-17:50 Synergy activity panel discussion  
(closed meeting)

The meeting is for the preparation of the list of topics to be discussed on the 2nd day in the open discussion session.

**20:00 Dinner at Caffe Concerto**

**Thursday 16<sup>th</sup> June 2016**

**SPEAKER (s)**

**Topic 3: Hit to lead**

**Session 6**

**Chairs:**  
**Maria de Nazaré Correia Soeiro**  
**Sheraz Gul**

9:00-9:30 A GSK Contribution to NTDs: Three Kinetoplastid Boxes Jose Miguel Coteron-Lopez JSK

9:30-9:45 Structure-based design and bioguided optimization of epigenetic inhibitors for anti-parasitic therapy Wolfgang Sippl A-ParaDDisE

9:45-10:00 Targeting the parasite folate pathway by a structure-based drug design approach Ina Pöhner NMTrypl

10:00-10:15 PDE inhibitors as new therapeutic entries for Chagas disease? Iwan de Esch Maria de Nazaré Correia Soeiro PDE4NPD

10:15-10:30 Crystallographic contributions to design and development of antiparasitic drugs. Stefano Mangani NMTrypl

**10:30-11:00 Coffee break**

11:10-11:25 The minimum information about a bioactive compound exemplified by the PDE4NPD and NMTrypl consortia compounds Sheraz Gul NMTrypl, PDE4NPD

11:25-11:40 KINDReD ADME-Tox strategy Isbaal Ramos KINDReD

11:40-12:10 Round table and discussion Chairs and Speakers

**Topic 4: Lead to drug**

**Session 7**

**Jose Miguel Coteron-Lopez**  
**James McKerrow**

12:10-12:25 Miltefosine and similar compounds: can we tell a better story? Theodora Calogeropoulou NMTrypl

12:25-13:00 Animal models in pre-clinical studies of NTD Anabela Cordeiro da Silva José M<sup>a</sup> Alunda Jérôme Estaquier KINDReD, NMTrypl

**13:00-14:00 Lunch**

14:00-14:15 Completion of pre-clinical analysis of new drug for Chagas Disease. James McKerrow KINDReD

14:15-14:30	Cellular Immunology insights beyond the benefits of etiological treatment of Chagas disease.	Olindo Assis Martins-Filho KINDReD
14:30-14:55	Round table and discussion	Chairs and Speakers
<b>Session 8</b>		<b>Jane MacDougall</b> <b>Raymond Pierce</b>
14:55-15:25	Drug discovery/ development on NTDs, current landscape and future prospects	Eric Chatelain DNDi
15:25-15:40	KINDReD Association	Jane MacDougall KINDReD
15:40-16:25	Round table - Achievements and Perspectives : open discussion	Experts and Coordinators
<b>16:25-16:55</b>	<b>Coffee break</b>	
16:55-17:40	Round table - Achievements and Perspectives : open discussion ( <i>second part</i> )	Experts and Coordinators
17:40-17:45	Acknowledgments	Maria Paola Costi
<b>20:00</b>	<b>Dinner at Trattoria Del Giardinetto</b>	