

NEUROMED : Progress Meeting, Toulouse 5 & 6th March 2015

Institut de Pharmacologie et de Biologie Structurale (IPBS)
Centre National de la Recherche Scientifique UMR 5089 DR14
205 route de Narbonne, 31077 Toulouse, France

5 March 2015

13:30 h: Welcome and gathering

14:30 h: Announcements and Important Issues (by Javier Sancho)

15:00 h: NEUROMED Science presentations by the six partners: where we are. (20-30 min)

☐ Javier Sancho. *Universidad de Zaragoza. IUI BIFI.*

☐ Salvador Ventura. *Universidad Autónoma de Barcelona*

☐ Maria Joao Saraiva. *Instituto de Biología Molecular e Celular. IBMC*

16:30 Coffee break

☐ Rui M. M. Brito. *Universidade de Coimbra*

☐ Pau Bernardó. *INSERM. Délégation Régionale Languedoc-Roussillon Centre de Biochimie Structurale*

☐ Marie L. Maddelein. *CNRS UMR5089 IPBS*

16:30 Coffee break

18:00 h: Approval of coordinators, steering committees, and other Neuromed management documents and Administrative Tasks

20:00 h: NEUROMED dinner

6 March 2015

9h30 : Welcome

10h : Tasks and deliverables : state of development of each scientific GT

10h: GT2. Phenylketonuria: organizing the task (by Javier Sancho)

1. Computational design of molecules based on pharmacological chaperone IV using the three-dimensional

structure obtained by x ray diffraction

2. Analysis of the folding and assembly of wild PAH and of defective enzymes as well as the effects exerted by

chaperone IV and Kuvan

3. Synthesis and in vitro assay of new designed chaperones

4. Toxicity and efficacy in animal models

10:45 Coffee break

11h: GT3. Parkinson: organizing the task (by Salvador Ventura)

1. Screening of chemical libraries and identification of inhibitors of alpha-synuclein aggregation
2. Analysis of the mechanism of alpha-synuclein inhibitors
3. Design, synthesis and in vitro analysis of fluorescent inhibitors capable of binding to Alpha-synuclein oligomers
4. Effect of alpha-synuclein oligomerization inhibitors in the neurodegenerative process
5. Analysis of fluorescent inhibitors in human specimens from patients with synucleopathies

11:45 Coffee break

12h: GT4. Amyloidosis of TTR: organizing the task (by Rui M.M. Brito and Maria Joao Saraiva)

1. Virtual and experimental screening of chemical libraries and identification of new pharmacological chaperones and inhibitors of TTR aggregation
2. Computational design and production of trans-suppressors of aggregation
3. Experimental analysis of the mode of action of pharmacological chaperones and TTR trans-suppressors found in actions 1 and 3
4. Design, synthesis and in vitro test of conjugated inhibitors with affinity by TTR
5. Toxicity tests in cell cultures of agents selected in action s1-4
6. Toxicity and efficacy in mice models of the most promising pharmacological chaperones and inhibitors selected in action 5

13 h: Lunch

15h 00 : General Discussion

16h End of Progress Meeting