NEUROMED: Progress Meeting, Coimbra, November 7th, 2014

Departamento de Química, Universidade de Coimbra
Rua Larga, 3004-535 Coimbra, Portugal
Seminar Room, 2nd floor

10:00 h: Pre-meeting coffee

10:30 h: Welcome (Rui Brito)

10:35 h: Announcements and Important Issues (Javier Sancho)

10:45 h: **Neuromed: Recent Scientific Developments**, **Partners Activities Reports and Indicators** (15 min)

Javier Sancho. *Universidad de Zaragoza. IUI BIFI.*
Salvador Ventura. *Universidad Autónoma de Barcelona*
Pau Bernardó. *INSERM. Dèlégation Régionale Languedoc-Roussillon Centre de Biochimie Structurale*
Marie Maddelein. *CNRS UMR5089 IPBS*
Maria Joao Saraiva. *Instituto de Biologia Molecular e Celular. IBMC*
Rui Brito. *Universidade de Coimbra*
Sandra Cardoso. *Universidade de Coimbra*

12:30 h: Short break

12:45 h: Tasks and Deliverables: state of development of each scientific GT

12:45 h: GT2. Phenylketonuria (Javier Sancho).

1. Computational design of molecules based on pharmacological chaperone IV using the three-dimensional structure obtained by diffraction X
2. Analysis of the route of folding and assembly of wild-type PHA and defective enzymes as well as the effects by chaperone IV and Kuvan
3. Synthesis and in vitro assay of new designed chaperones
4. Toxicity and efficacy in animal models

13:00 h: GT3. Parkinson (Salvador Ventura).

1. Screening of chemical libraries and identification of inhibitors of of alpha-synuclein aggregation
2. Analysis of mechanism of alpha-synuclein inhibitors
3. Design, synthesis and in vitro analysis of fluorescent inhibitors capable of binding to 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

13:15 h: GT4. TTR Amyloidosis (Rui 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 the TTR trans-suppressors found in actions 1 and 2
4. Design, synthesis and test in vitro of conjugated inhibitors with affinity by TTR
5. Toxicity test in cell cultures of agents selected in actions 1-4
6. Toxicity and efficacy in mice models of the most promising pharmacological chaperones and inhibitors selected in action 5

13:30 h: Neuromed Lunch

15:00 h: Neuromed: Administrative and Management Tasks

GT 1. Coordination and Management (Javier Sancho).

1. Administrative and financial follow-up
2. Short term Partners Tasks
3. Short reminder of administrative issues (+ Rodrigo Alves, UC)

GT5. Monitoring and Evaluation (Javier Sancho).

1. Monitoring of the implementation of the project: review indicators
2. Evaluating of the implementation of the project
3. Set dates and places of next progress meetings

GT6. Advertising, information and capitalization (Javier Sancho).

1. Advertising, information and capitalization, visual identity: logo, web, brochures and corporate communication plan
2. Approval of communication plan
3. Capitalization and dissemination plan

16:00 h: General Discussion: working plans for GT 2, 3 & 4 (all partners)

17:00 h: End of Progress Meeting

17:30 h: Visit to UC old library (Biblioteca Joanina)