Day 1 – 18th March

8:45 Welcome Alexandra Brito, FPUL, Portugal
9:00 BBB: structure and function (T) István Krizbai, Biological Research Centre, Hungary
9:45 Therapeutic strategies to overcome the BBB (T) Alexandra Brito, FPUL, Portugal
10:30 Break
11:00 BBB study models (T) Joana Bicker, Faculty of Pharmacy, University of Coimbra, Portugal
11:45 In vitro models of the BBB: static vs. dynamic (T) Inês Figueira, Association of the FPUL for R&D (FARM-ID), Portugal
12:30 Lunch
13:45 Data mining tools to study the BBB in silico (T) André Falcão, Faculty of Sciences, UL, Portugal
14:30 Structure-based approaches to model BBB permeation (P; VL) Rita Guedes, FPUL Portugal
15:15 Tools and resources to find BBB permeant compounds (P; VL) Natália Aniceto, FPUL, Portugal
16:00 Break
16:30 BBB imaging in Neuropathology: methods in clinical practice (T) Manuel Correia, Hospital Santa Maria, Portugal
17:00 BBB imaging in Neuropathology: clinical cases (T) Lia Neto, Hospital Santa Maria & Faculty of Medicine, UL, Portugal
17:30 Micro-CT as a preclinical imaging tool (T) Margarida Franco, Polytechnic of Leiria, Portugal
18:00 End of session

Day 2 – 19th March

9:00 Targeted drug delivery to the brain (T) Torben Moos, Faculty of Medicine, Aalborg University, Denmark
10:00 Nanomedicines as a highway to brain (T) Mafalda Videira, FPUL, Portugal
10:30 Break
11:00 Nose-to-brain delivery as a strategy to overcome the BBB (T) Ana Fortuna, Faculty of Pharmacy, University of Coimbra, Portugal
11:30 Drug conjugation as a tool to overcome the BBB (T) Miguel Castanho, Faculty of Medicine, UL, Portugal
12:00 Peptide shuttles for receptor-independent transport across the BBB (T) Vera Neves, Faculty of Medicine, UL, Portugal
12:30 Lunch
13:45 Primary cultures of brain microvascular endothelial cells (BMEC) (P; VL) Rui Silva, FPUL, Portugal
14:30 Cell lines of mouse BMEC: static vs dynamic cultures (P; VL) Joana Pereira, FPUL, Portugal
15:15 Establishment of a BBB in vitro model (P; VL) Inês Figueira, FARM-ID, Portugal
16:00 Break
16:30 Assessment of BBB properties in an in vitro model (P; VL) Inês Figueira, FARM-ID, Portugal
17:15 Evaluation of BBB features in BMEC cultures (P; VL) Rita Garcia, FPUL, Portugal
18:00 End of session

Day 3 – 20th March

9:00 Therapeutic ultrasound as a treatment modality for physiological and pathological ageing (P; VL) Jürgen Götz, Queensland, U. Australia
9:45 Evaluation of BBB features in brain tissue (P; VL) Joana Pereira, FPUL, Portugal
10:30 Break
11:00 Tools for analysis of BBB data: ImageJ (P; VL) Joana Pereira, FPUL
11:45 Tools for analysis of BBB data: Icy (P; VL) Rita Garcia, FPUL, Portugal
12:30 Course assessment and closing Alexandra Brito, FPUL, Portugal

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