



Human Brain Project

2nd HBP Education Workshop Future Medicine

Medical intelligence for brain diseases

15th – 18th March, 2015, CHUV, Lausanne, Switzerland

Final programme

2nd HBP Education Workshop – March 15-18, 2015

Sunday, March 15

17h00 - 17h30	Registration
17h30 - 18h30	Students' introduction Definition of challenges for hands-on sessions Arrangement of hands-on session groups
18h30 - 20h00	Poster session + apero

Monday, March 16

09h00 - 09h15	Welcome <ul style="list-style-type: none">- Ferath Kherif (CHUV)
09h15 - 11h00	Plenary session - 1 : Personalised medicine in neuro-degenerative disease, psychiatry and oncology <ul style="list-style-type: none">- <i>MIP - medical issues</i> by Richard Frackowiak (CHUV)- <i>The molecular diagnosis of neurodegenerative disorders</i> by Giovanni Frisoni (HUG)- <i>Using pattern methods to separate neurological diseases</i> by Stefan Klöppel (Universitätsklinikum Freiburg)
11h00 - 11h30	Coffee break
11h30 - 13h00	Plenary session - 2 : IT infrastructure for medical research <ul style="list-style-type: none">- <i>Federated queries in the HBP Medical Informatics Platform</i> by Anastasia Ailamaki (EPFL)- <i>Title not provided</i> by Yannis Ioannidis (UoA)- <i>High-throughput neuroimaging with CBRAIN and LORIS</i> by Tristan Glatard (McGill, University of Lyon)
13h00 - 14h15	Lunch break
14h15 - 15h15	Plenary session - 3 <ul style="list-style-type: none">- <i>Transforming healthcare with IBM Watson</i> by Peter Haig (IBM)
15h15 - 16h00	Plenary session - 4 : Data mining and disease model (part 1) <ul style="list-style-type: none">- <i>Predictive clustering for finding disease signatures</i> by Saso Dzeroski (Jozef Stefan Institute)- <i>Medical neuro-informatics - "Big data" and "small data" analysis towards personalized healthcare. "3C strategy" as a case study</i> by Mira Marcus-Kalish (Tel-Aviv University)
16h00 - 16h30	Coffee break

- 16h30 - 17h30 Plenary session - 5 : Data mining and disease model (part 2)
- *Models of disease progression*
by Daniel Alexander (UCL)
 - *Mining the Allen Brain database*
by Boudewijn Lelieveldt (LUMC)
 - *Size always matters: Fiber length and the development of long-distance connectivity*
by John Lewis (McGill)
- 17h30 - 18h30 Plenary session - 6 : Data mining and disease model - Discussion

Tuesday, March 17

- 09h00 - 10h00 Introduction to hands-on sessions
- 10h00 - 11h00 Hands-on sessions (group sessions) - Part 1
- 11h00 - 11h30 Coffee break
- 11h30 - 13h00 Hands-on sessions (group sessions) - Part 2
- 13h00 - 14h15 Lunch break
- 14h15 - 16h00 Hands-on sessions (group sessions) - Part 3
- 16h00 - 16h30 Coffee break
- 16h30 - 18h15 Hands-on sessions (group sessions) - Part 4
- 18h15 - 18h30 Break
- 18h30 - 20h00 *OPTIONAL - Special "Brain awareness week 2015"*
Panel session on "Personalised Medicine" (in French)
with Ferath Kherif, Richard Walker, Daniel Cohen

Wednesday, March 18

- 09h00 - 10h00 Plenary session - 7 : Briding the scales
- *Towards a multi-scale representation of the brain: in-vivo unification of the microscopic and mesoscopic descriptions of the brain with quantitative MRI*
by Antoine Lutti (CHUV)
- 10h00 - 10h30 Coffee break
- 10h30 - 12h30 Students group presentations + Jury deliberation
- 12h30 - 13h00 Group award

Venue

CHUV campus, Lausanne, Switzerland

Sunday:

Opening session - Building PMU / auditorium Jequier Doge

Poster session - Building BH (main building) / auditoriums hall

Monday + Wednesday:

Building PMU / auditorium Jequier Doge

Tuesday:

Building BU23 / room Micropolis