

Outline of VPH2014 Scientific Programme

September 9

Late afternoon: Registration + reception

VPH Institute Board of Directors meeting

Satellite meetings: By invitation based on proposal

September 10

0830---1200 Plenary session 1

Theme: The Digital Patient: the intimate links between the Virtual Physiological Human, a Human Phenome Project and predictive, preventive and participatory medicine.

Opening address (5 minutes)

Keynote lecture (40 minutes)

4 talks at 25---30 minutes plus 2 coffee breaks at 20 minutes

1200---1300 Lunch

1300---1400 Poster session

1400---1700 Plenary session 2

Theme: The Ageing Physiome: quantitative understanding of the ageing phenotype to understand, prevent and treat complex disease

Keynote lecture (40 minutes)

4 talks at 25---30 minutes plus 2 coffee breaks at 20 minutes

1715---1930 Workshops

- Computational integration of organphysiology
- Modelling neurodegenerative disease
- Developmental biology: modelling organ ontogeny
- Modelling cancer growth and therapy
- Mathematical challenges of multiscale modelling
- Model---guided tissue engineering and stem cell therapy

2000---2230 Conference dinner

September 11

0900---1200 Plenary session 3

Theme: Empowering theoretical---experimental research and clinical applications: model repositories, standards and data integration

4 talks at 25---30 minutes plus 2 coffee breaks at 20 minutes

1200---1300 Lunch

1300---1400 Poster session

1400---1700

Plenary session 4

Theme: From sequence to consequence: the integration of genomic information with multiscale computational physiology

Keynote lecture (40 minutes)

4 talks at 25---30 minutes plus 2 coffee breaks at 20 minutes

1715---2000 Workshops

- Infrastructure for linking molecular biology, metabolism and signalling to the Physiome
- Models for describing the effects of exercise on human physiology
- Model---guided medical device design and assessment
- Model---guided drug targeting, design and testing
- Metamodelling methodology for easing model construction and validation
- Ontology---based knowledge management

September 12

0900---1200 General Assembly of the VPH Institute

Satellite meetings: By invitation based on proposals