

WEEK 1 **TRANSLATIONAL MEDICINE IN PERSPECTIVE** *Coordinator: M. Goldman*

4 January 2016

INTRODUCTION TO TRANSLATIONAL MEDICINE

Morning Session : 9h-12h

- **Welcome** : Marco Schetgen
- **Setting the scene** : Michel Goldman
- **Evidence-based medicine** : Christian Melot
- **Experimental medicine** : Jean-Louis Vincent

Afternoon Session : 14h-17h

- **Genomic medicine** : Guillaume Smits
- **Biomedical engineering** : Alain Delchambre & Jacques Devière

5 January 2016

THE HEALTHCARE LANDSCAPE

Morning Session : 9h-12h

- **Cost-effectiveness in healthcare** : Alain Dewever
- **Basics of health economics** : Mattias Neyt
- **Health-technology assessment** : Frank Hulstaert

Afternoon Session : 14h-17h

- **The multiple steps in drug innovation** : Bruno Flamion
- **The value chain in drug development** : Edouard Croufer

6 January 2016

PHARMACOTHERAPY AND OTHER HEALTH TECHNOLOGIES

Morning Session : 9h-12h

- **Pharmacotherapy** : Michel Goldman & Bruno Flamion
- **Vaccines and prophylaxis against infectious diseases** : Pierre Smeesters
- **Surgery and robotics** : Didier De Cannière

Afternoon Session : 14h-17h

- **Medical devices** : Jacques Goldstein
- **Imaging technologies** : Serge Goldman

7 January 2016

EFFICACY AND SAFETY OF HEALTH TECHNOLOGIES

Morning Session : 9h-12h

- **Overview of regulatory approval processes** : Greet Musch
- **Pharmacovigilance** : Nele Maenhout
- **Regulation of advanced therapy medicinal products** : Claire Beuneu

Afternoon Session : 14h-17h

- **The different stages in clinical development of medicines** : Michel Toungouz
- **The different stages in clinical development of medical devices** : Emmanuel Bartholomé
- **Strategies towards regulatory approval**: Isabelle Huys

8 January 2016

THE GATEWAYS TO BUSINESS DEVELOPMENT IN HEALTHCARE

Morning Session : 9h-12h

- **The initial steps in value creation: from intellectual property protection to technology transfer** : Cécile Galle & Natalia Kapetanaki (the patenting system)
- **Open innovation and IP models for drug innovation** Hilde Stevens
- **From research to business - New business models in life sciences**: Azèle Mathieu

Afternoon Session : 14h-17h

- **Public-private partnerships for drug innovation** : Hilde Stevens & Magda Papadaki

11 January 2016

THE PRE-CLINICAL PHASES IN BIOPHARMACEUTICAL R&D

Morning Session : 9h-12h

- **Introduction** : Pierre Chatelain
- **Pre-clinical research: value and limits** : Jean-Paul Prieels
- **In vivo models of disease** : Marcelle Van Mechelen
- **In vitro models of disease** : Antoine Bondue

Afternoon Session : 14h-17h

- **Pharmacokinetics and pharmacodynamics** : Jean-Marie Nicolas
- **Use of human tissues for identification of candidate genes** : Décio Eizirik

12 January 2016

DRUG TARGETS

Morning Session : 9h-12h

- **Identification and validation of drug targets** : Jean-Marie Boeynaems, Pierre Chatelain, Michel Detheux

Afternoon Session : 14h-17h

- **Toxicology** : Chemicals: Dimitri Kouretas - Biopharmaceuticals: Eddy Rommel
- **Case study** : Marc Parmentier

13 January 2016

DRUG LIBRARIES

Morning Session : 9h-12h

- **Establishment of drug libraries** : Yannick Quesnel
- **High throughput screening** : Pierre Chatelain

Afternoon Session : 14h-17h

- **Case study** : Jean-Marie Nicolas

14 January 2016

PROJECT MANAGEMENT, KNOWLEDGE MANAGEMENT AND RISK MANAGEMENT IN HEALTHCARE R&D

Morning Session : 9h-12h

- **Project management** : Pierre Chatelain
- **Risk management** : Emmanuel Bartholomé

Afternoon Session : 14h-17h

- **Experimental design in preclinical research** : Mariana Igoillo-Esteve
- **Data collection, data analysis and statistics in preclinical research** : Mariana Igoillo-Esteve

15 January 2016

QUALITY AND COMMUNICATION OF RESEARCH RESULTS

Morning Session : 9h-12h

- **Quality in academic research** : Michel Toungouz
- **Quality control in clinical biology** : Anne Kornreich
- **Quality from a regulatory stand-point** : Alan Fauconnier

Afternoon Session : 14h-17h

- **Scientific communication and writing in life sciences** : Cécile Galle
- **Master class on tips for publishing research results**: Décio Eizirik

18 January 2016

SOCIETAL AND REGULATORY ASPECTS OF CLINICAL INVESTIGATIONS

Morning Session : 9h-12h

- **Biomedical research: commercial vs. non-commercial trials** : Michel Toungouz & Bruno Flamion
- **Bioethics and societal aspects** : Natalia Kapetanaki

Afternoon Session : 14h-17h

- **Overview of clinical trial legislation at EU and national level** : Greet Musch
- **Regulatory requirements for authorizations of clinical trials**: Kristof Bonnarens
- **Good clinical practice compliance from a regulatory standpoint** : Dominique Delforge

19 January 2016

DESIGNING CLINICAL TRIALS

Morning Session : 9h-12h

- **Patient selection and clinical endpoints** : Jean-Louis Vincent
- **Surrogate markers** : Emmanuel Bartholomé
- **Collaborative clinical trials : the EORTC model** : Françoise Meunier

Afternoon Session : 14h-17h

- **Novel trial designs** : Christian Melot
- **Patient informed consent** : Patrick Biston

20 January 2016

ELECTRONIC HEALTH RECORDS, MOBILE HEALTH TECHNOLOGIES, ROLE OF PATIENTS

Morning Session : 9h-12h

- **Electronical health records**: Dipak Kalra
- **Mobile health technologies** : Pascal Coorevits
- **Critical Care** : Jacques Creteur

Afternoon Session : 14h-17h

- **Global health** : Lisa Bonadonna
- **The access of patients to innovative medicines**: Marc Tomas

21 January 2016

CLINICAL INVESTIGATIONS IN CANCER AND RARE DISEASES

Morning Session : 9h-12h

- **Clinical trials in practice: EORTC as a model for cancer research** : Sandrine Marreaud
- **The role of the surgeon in clinical trials** : Vincent Donckier
- **The role of patients in drug development** : Laure Sonnier

Afternoon Session : 14h-17h

Rare diseases in the development of new medicines

- **Repurposing of GLP-1 analogs: from diabetes to neurodegenerative diseases** : Miriam Cnop
- **Novel targeted therapies for hypereosinophilic disorders** : Florence Roufosse

22 January 2016

SPECIAL PATIENT POPULATIONS AND BIOBANKS

Morning Session : 9h-12h

- **The child under trial** : Georges Casimir
- **The elderly under trial** : Thierry Pepersack
- **Big Data in Medicine** : Hughues Bersini

Afternoon Session : 14h -17h

- **Biobanks** : Isabelle Huys
- **Data privacy and data protection** : Isabelle Huys & Guillaume Smits

25 January 2016

INTRODUCTION TO FUNDAMENTALS OF HEALTHCARE ENTREPRENEURSHIP

Olivier Witmeur & HeeJung Jung

Morning Session : 9h-12h

- **What entrepreneurship is and the entrepreneurship framework: People, Opportunity and Resources**
- **Building a team and distinguishing role inside new ventures**

Afternoon Session : 14h -17h

- **What makes a good idea? Market and industry attractiveness**
- **Mapping the ecosystem. Who are the key stakeholders in the new venture creation process?**

26 January 2016

FROM RESEARCH TO BUSINESS, THE JOURNEY FROM IP TO COMPANY

Olivier Belenger & Florian Taübe

Morning Session : 9h-12h

- **New venture incubation**
- **The business plan**

Afternoon Session : 14h -17h

- **Managing for growth: the life cycle of a new venture**
- **Alliances and partnership negotiation**

27 January 2016

FUNDING HEALTHCARE VENTURES FROM ALCHEMY TO IPO

Olivier Witmeur & Alain Parthoens

Morning Session : 9h-12h

- **The basics of venture capital**
- **Grants, business angels and early stage venture capital (case study)**

Afternoon Session : 14h -17h

- **Early development venture capital (case study)**
- **Later stages venture capital and Initial Public Offering (case study)**

28 January 2016

THE INNOVATION LEADER, ENTREPRENEURSHIP BEYOND NEW VENTURE CREATION

John Metselaar

Morning Session : 9h-12h

- **What Innovation Is/Is Not, and Setting Yourself Up for It**
- **The Systems to Guide Innovation**

Afternoon Session : 14h -17h

- **Establishing a Successful Culture of Innovation Deep into Your Organization**
- **The (New) Role of Leadership in this Culture.**

29 January 2016

EVALUATION - DEBRIEFING

M. Goldman, JL Vincent, B. Flamion, P. Chatelain, E. Bartholomé, C. Galle