



## **INFRAFRONTIER/IMPC Epigenetics Workshop 2018**

**Date:** 5<sup>th</sup> December 2018, after the INFRAFRONTIER / IMPC Stakeholder Workshop in Munich

**Duration:** 1 day

**Venue:** Sapporo meeting room, Hilton Munich Park

### **Aim of the workshop:**

The main goal of this meeting is to bring together and strengthen interactions among mouse geneticists, epigenetic experts and IMPC members within the context of the IMPC framework. This will raise awareness about the availability of INFRAFRONTIER/IMPC platforms and in turn provide a great opportunity for the exposure of IMPC in the field of epigenetics. Specifically, the meeting will focus on the actual mechanism of epigenetic inheritance, on novel approaches to deepen our understanding of this research area and also aims at bringing together interested IMPC members to explore the possibility of empowering the IMPC phenotypic data for new discoveries in this field.

### **Schedule:**

#### **4<sup>th</sup> December, Tuesday**

19:30 – Dinner at Leib und Seele

#### **5<sup>th</sup> December, Wednesday**

9.30 - 10.00 Registration and coffee

10.00 – 10.30 Opening lecture – Raffaele Teperino, *HMGU*

#### **10.30 - 12.30 Session 1 – Introduction to IMPC and Epigenetic regulation**

◆ Terry Meehan, *EMBL-EBI* – Introduction to IMPC and IMPC-provided disease models

◆ Robert Feil, *CNRS & University of Montpellier* – Epigenetic control of imprinted genes in development and disease

◆ Robert Schneider, *Institute of Functional Epigenetics HMGU* – Novel players in the regulation of chromatin function

*Session 1 Discussion*





12.30 - 13.30

Lunch

13.30 - 15.30

**Session 2 – (Epi)genetic control of metabolism**

◆ Jan Rozman, *HMGU* - Identification of new candidate genes for metabolic functions in IMPC

◆ Marcus Buschbeck, *Josep Carreras Leukaemia Research Institute* - Histone variants that link chromatin architecture and metabolism

◆ Vardhman Rakyan, *Queen Mary University of London* – Epigenetic and developmental programming in disease pathogenesis from mouse to humans

Session 2 Discussion

15.30 - 16.00

Coffee break

16.00 - 18.00

**Session 3 – (Epi)genetic control of development**

◆ Mary Dickinson, *Baylor College of Medicine* - Imaging embryonic phenotypes in mutant mice

◆ Robert Braun, *The Jackson Laboratory Cancer Center* - IVF-induced activation of the paternal epigenome

◆ Maria-Elena Torres-Padilla, *Institute of Epigenetics & Stem Cells, Helmholtz Centre Munich* - Epigenetics and early embryonic development

Session 3 Discussion

18.30 - 21:00

Christmas Market

