



INFRAFRONTIER Conferences

Bridging Precision Medicine and Mouse Genetics



INFRAFRONTIER Conferences are scientific events offering top scientific talks, engaging community interactions and latest technological innovations aimed at the global sharing of INFRAFRONTIER and IMPC resources.

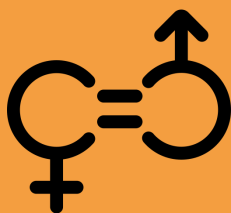
Focus on functional genetics, personalised medicine and rare diseases



600 attendees in 3 international conference



Near 50:50 gender ratio among participants



Co-organised with IMPC



IMPC
International Mouse Phenotyping Consortium



INFRAFRONTIER / IMPC Stakeholder Meeting 2017

Advancing Personalised Medicine with Animal Models
14 - 16 Nov, 2017 | Athens

INFRAFRONTIER Stakeholder Meeting 2018

Rare Disease & Gene Therapy
3 - 4 Dec, 2018 | Munich

INFRAFRONTIER / IMPC Conference 2019

Genetic Variation, Big Data and Ageing
3 - 5 June, 2019 | Helsinki



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IMPC

International Mouse Phenotyping Consortium



INFRAFRONTIER / IMPC Stakeholder Meeting 2017

Advancing Personalised Medicine with Animal Models

14 - 16 Nov, 2017 | Athens



196 Participants
from more than 18
countries

Keynotes - George
Kollias & Malcolm
Macleod

Also involved EMA,
EuroPDX, RD-Connect,
ICPerMed, IRDiRC

The INFRAFRONTIER / IMPC Stakeholder Meeting 2017: “Advancing Personalised Medicine with Animal Models” was jointly organized with the International Mouse Phenotyping Consortium (IMPC).

The main focus was to facilitate active discussions on the advancements in CRISPR/Cas9 technology with a wide range of international INFRAFRONTIER stakeholders. These included international research infrastructures for phenotyping, archiving and distribution of mouse disease models, personalised medicine initiatives, rare disease networks, funders and the INFRAFRONTIER user community.

The meeting included sessions on:

1. Advancing Personalised Medicine with Animal Models
2. Modelling human conditions using genome editing approaches
3. Contribution of mouse resources to

Personalised Medicine

4. Responsible Research - Contribution of large-scale mammalian resources to animal welfare

Outcomes:

- ◆ Guidelines for optimum use of mouse models in personalised medicine
- ◆ Different ways in which CRISPR-Cas9 genome editing affects precision medicine
- ◆ Engagement of the personalised medicine and rare disease consortia
- ◆ Set the stage for the next INFRAFRONTIER/IMPC meeting focusing on rare diseases and gene therapy



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INFRAFRONTIER Stakeholder Meeting 2018

Rare Disease & Gene Therapy

3 - 4 Dec, 2018 | Munich



191 Participants from
22 countries



Keynotes - Shinya
Yamamoto & Federico
Mingozzi



Also involved IRDiRC,
RD-Connect, RDMM,
ESFRI, GENETHON

The INFRAFRONTIER / IMPC Stakeholder Meeting: 'Advancing Rare Disease Research and Gene Therapy Applications with Animal Models' aligned the INFRAFRONTIER / IMPC platforms with current rare disease research and personalised medicine initiatives, and enabled interactions with human genetics centres, clinical consortia and biobanks. It also underscored the significant impact of mouse genetics on understanding human genetic variation and disease.

The event included the following sessions:

1. Advancing Rare Disease research with animal models
2. Gene therapy applications using animal models
3. Rare disease initiatives
4. Young investigator presentations

Outcomes:

- ◆ Set up interactions between international and European rare disease networks and programs
- ◆ Promoting active synergy between mouse geneticists and human geneticists with collaborative mechanisms advancing rare disease research with model organisms
- ◆ Planning of a data integration workshop involving model organism resources and rare disease clinical data - The Rare Diseases Data Integration Workshop 2019
- ◆ Set the stage for the next conference in Helsinki on genetic variation, big data and ageing



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INFRAFRONTIER / IMPC Conference 2019

Genetic Variation, Big Data and Ageing

3 - 5 June, 2019 | Helsinki



200 Participants
from more than 22
countries



Keynotes - Aarno
Palotie & Kari Alitalo



Also involved FinnGen,
FarGen, FET-flagship
LifeTime

The INFRAFRONTIER / IMPC Stakeholder Conference 2019: Genetic Variation, Big Data and Ageing was jointly organized with the International Mouse Phenotyping Consortium (IMPC) in Helsinki, Finland. Biocenter Oulu from University of Oulu was the co-organiser and national local host of the event.

This conference provided an excellent opportunity to support a better alignment of INFRAFRONTIER / IMPC platforms with current ageing and big data initiatives along with supporting interactions with human genetics centres and clinical consortia to promote the functional analysis of human genetic variation.

The conference was broadly divided into the following sessions:

1. Genomic big data from population isolates
2. IMPC: Emerging insights into genomic and precision medicine

3. Understanding genetic variation using IMPC big data
4. Model organisms in ageing research
5. Animal models for studying genetic variation
6. Selected presentations from participants

Outcomes:

- ◆ Introduced INFRAFRONTIER / IMPC platforms to the population genetics research community and vice versa
- ◆ Collaborations between population geneticists and the mouse research community
- ◆ Use cases for the utility of model organisms to study genetic variation in population isolates and decipher ageing mechanisms
- ◆ IMPC towards understanding functional genetic variation and developing precision medicine



Our doors are open for you!
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