The rabbit, an efficient model for functional genomics studies

Geneviève Jolivet

RGB-Net Meeting
&
6th Rabbit Biotechnology Meeting

3-4 November 2015
Institute of Cognitive Science - Lyon (France)

TUESDAY 3rd

8:00-9:30   Registration
9:30-9:40   Opening remarks from Luca Fontanesi (coordinator of RGB-Net) & Pierre Savatier (Stem Cell and Brain Research Institute, INSERM, Lyon).

Session I : Genomics, genetics and new technologies

Chair: Claire Rogel-Gaillard

9:40-10:10   Miguel Carneiro (University of Porto)
"The rabbit genome: new hints from a domestication process" (tentative title)

10:10-10:40   Luca Fontanesi (University of Bologna)
"The Lagomorph Genomics Consortium: can we sequence the genome of all lagomorph species? The rabbit leads the way"

10:40-11:10   Hervé Garreau (INRA)
"Rabbit genomics in the Feed for Gene H2020 project" (tentative title)

Coffee break (20 minutes)

11:30-12:00   Elisabetta Giuffra (INRA)
"The FAANG project: is there any room for the rabbit?" (tentative title)

12:00-12:30   Eve Devinoy (INRA)
Title to be determined

12:30-13:00   Yixue Li (Shanghai Industrial Technology Institute)
"Genomic and RNA-seq analysis of JW, NZW and WHHL rabbits" (tentative title).

Lunch onsite + group photo (90 minutes)

Session I : Genomics, genetics and new technologies (continuation)

Chair: Bertrand Pain

14:30-15:00:   Véronique Duranthon (INRA, Jouy-en-Josas)
"Development of new tools for easy transcriptome analyses in the rabbit. Applications to the embryo".

15:00-15:30   Laurent Boulanger (INRA, Jouy-en-Josas)
"Genome editing in rabbit: it is time to use homologous recombination".

15:30-16:00   Lazlo Hiripi (NARIC-Agricultural Biotechnology Institute, Gödöllő)
"Placental-specific gene transfer in rabbits".

Coffee break (20 minutes)

16:20-17:00   Eckhard Wolf (Ludwig-Maximilian University, Munich)
"Sharing advances on large animal models"

17:00-18:00   RGB-Net Management Committee Meeting

20:00   Dinner

WEDNESDAY 4th

Session II: Rabbit models of human diseases

Chair: Zsuzsanna Bősze & Eugene Chen

9:00-9:35   Eugene Chen (University of Michigan Medical Center)
"Novel transgenic, knockout and knockin rabbit models for cardiovascular research".

9:35-10:10   Katja Odening (University of Freiburg)
"Transgenic rabbit models as ideal tools to investigate inherited arrhythmogenic diseases such as long-QT and short-QT syndrome".

10:10-10:30   Zsuzsanna Bősze (NARIC-Agricultural Biotechnology Institute, Gödöllő)
"Creation of long-QT type 5 transgenic rabbits, which are charaterized with increased repolarization instability and arrhythmia susceptibility".

Coffee break (20')

10:50-11:25   Jianglin Fan (University of Yamanashi)
"apoE KO rabbits as a novel model for human hyperlipidemia".

11:25-12:00   Anne Navarrete-Santos (Martin Luther University Faculty of Medicine, Halle)
"Metabolic and hormonal adaptation is crucial for survival of the embryo during early pregnancy: A lesson from the rabbit."

12:00-12:30   Geneviève Jolivet (INRA, Jouy-en-Josas)
"The rabbit, an efficient model for functional genomics studies".

12:30-13:00   Liangxue Lai (Guangzhou Institutes of Biomedicine and Health)
"Rabbit models for Human Eye Disease"

Lunch onsite (60')

Session III : Embryo, gametes, and stem cells

Chair: Véronique Duranthon

14:00-14:30   Pascale Chavatte-Palmer (INRA, Jouy-en-Josas)
"Foetus and placenta development: new approaches for in vivo imaging".

14:30-15:00   Pierre Savatier (Stem Cell and Brain Research Institute, INSERM, Lyon)
"Pluripotent stem cells and chimaeric competency in rabbits".

15:00-15:30   Thierry Joly (ISARA, Lyon)
"Crypreservation of embryos, sperm, and somatic tissues in rabbits"

15:30-16:00   Bertrand Pain (Stem Cell and Brain Research Institute, INSERM, Lyon)
"Somatic cell reprogramming, of birds and mammals"

16:00-16:15   Closing remarks from Jianglin Fan (President of the International Meeting on Rabbit Biotechnology) and Luca Fontanesi (coordinator of RGB-Net).

End of meeting