

# Transgenesis : recent technical developments and applications

June Monday 08<sup>th</sup> 2009

## MEETING OPENING

**8h15-9h30** - Registration

**9h15-9h30** - Welcome address - Ignacio Anegón

## SESSION I - Chairs : Michel Cohen-Tannoudji and Lluís Montoliu

**9h30-10h** - Transgenic animal models in biomedical research - LM. Houdebine,

INRA, Jouy-en-Josas (France)

**10h-10h30** - The impact of sequencing the mouse genome in biomedical research - JL Guénet, Pasteur Institut (Paris)

**10h30-11h** - shRNA mediated gene knock down advantages/disadvantages in relation to Knock-Out - K. Thiam, GenOway, Lyon (France)

**11h-11h15** - Coffee break

## SESSION II - Chairs: Marie Malissen and Cesare Galli

**11h15-11h45** - Zinc finger nuclease as tools for the generation of mutant animals - T. Cathomen, Institute of Virology, Berlin (Germany)

**11h45-12h00** - Knockout rats produced via embryo microinjection of designed zinc finger nucleases - R Buelow, Palo Alto (USA)

**12h00-12h30** - Transgenesis in non mammalian vertebrates - D Boujard, Rennes (France)

**12h30-13h00** - Gene inactivation by mutagenesis using N-ethyl-N-nitrosourea (ENU) - E. Cuppen, Utrech (Netherlands)

**13h00-14h** - Lunch

### **SESSION III - Chairs: Louis-Marie Houdebine and Edwin Cuppen**

**14h-14h30** - Cloning by nuclear transfer - C. Galli, Istituto Sperimentale Italiano Lazzaro Spallanzani, Cremona (Italy)

**14h30-15h** - Artificial chromosome-type transgenes - L Montoliu, National Center of Biotechnology, Madrid (Spain)

**15h-15h30** - Transgenesis using lentiviral vectors: examples applied to the generation of transgenic rats - I. Anegon, Nantes (France)

15h30-16h - Coffee break

**SESSION IV - Chairs: Jean-Louis Guenet and Toni Cathomen**

**16h-16h30** - The analysis of immune response using mutated mice - M.

Malissen, Marseille (France)

**16h30-17** - Rodent models of neurodegenerative diseases - L. Lescaudron,

Nantes (France)

**17-17h30** - Knock out and knock in strategies using ES cells to generate mutant mice - M. Cohen-Tannoudji, Pasteur Institute, Paris (France)