



# Top Models...

## Deciphering Biology Using Models

### June 5, 2015

## Program

8h30 Registration open

9h Welcome Address  
**Jacqueline Marvel**, SFR Biosciences Director

9h10 **Keynote lecture Chantal Rabourdin-Combe**  
**Cyril Zipfel** (The Sainsbury Laboratory, Norwich, UK)  
Regulation of receptor kinase-mediated innate immunity



10h **SFR Speaker**  
**Mohammed Bendahmane** (RDP, Laboratoire de Reproduction et Développement des Plantes)  
*Arabidopsis* and *Drosophila* as models to decipher the function of the Translationally controlled tumor protein, a conserved mitotic growth integrator in animals and plants

10h25 **Flash poster R&D**  
**Suzy Markossian** *In vivo* mouse genome editing with CRISPR/Cas9 technology  
**Chistophe Chamot** OpenSPIM : a do-it-yourself lightsheet microscope  
**Chistophe Viret** Analysis of Autophagy by ImageStream X  
**Baptiste Panthu** New *in vitro* cell free system combined with mass spectrometry to identify neo-synthetized proteins

10h45 Tea/Coffee break, posters and exhibition

11h15 **SFR Speakers**  
**Frédéric Arnaud** (UMR 754, Rétrovirus et pathologie comparée)  
Gaining insights into arbovirus-vector-host interactions through *in vivo* and *ex vivo* model systems

11h40 **Viktor Volchkov** (CIRI, Centre International de Recherche en Infectiologie)  
Molecular basis of Ebola virus pathogenicity



12h05 Lunch / Posters / Exhibition

13h30 **Keynote lecture Chantal Rabourdin-Combe**

**Michèle Crozatier** (Centre de Biologie du développement, Toulouse)  
The *Drosophila* hematopoietic niche. An *in vivo* model for deciphering the microenvironment that controls Hematopoietic Stem Cell



14h20 **Bioaster Presentation**

**Gianfranco Grompone** (IRT BIOASTER)  
Predictive models: one of BIOASTER's technology research drivers.

14h45 **SFR Speaker**

**Dominique Sigaudou-Roussel** (LBTI, Laboratoire de Biologie Tissulaire et d'Ingénierie Thérapeutique)  
Gaining insights into skin dynamics through *in vivo* and *ex vivo* models.

15h10 Tea/Coffee break, posters and exhibition

15h40 **SFR Speakers**

**Sophie Pantalacci** (LBMC, Laboratoire de Biologie Moléculaire de la Cellule)  
Gaining insights into morphogenesis with comparative transcriptomics and rodent molars.

16h05 **Hugo Aguilaniu** (IGFL, Institut de Génomique Fonctionnelle de Lyon)  
Deciphering the Molecular Networks That Link Fertility and Metabolism to Longevity using *Caenorhabditis elegans*

16h30 **Sandrine Bretaud/Florence Ruggiero** (IGFL, Institut de Génomique Fonctionnelle de Lyon)  
Collagens in the zebrafish neuromuscular system : swimming from morpholino knockdowns to genome editing technologies

