



PRELIMINARY PROGRAM OF THE
7TH ANNUAL MEETING OF THE EFOR NETWORK
7TH - 8TH MARCH 2016
FIAP JEAN MONNET, 30 RUE CABANIS, 75014 PARIS



GENERAL ARCHITECTURE OF THE MEETING

7TH MARCH 2016

Scientific Session 1

Scientific Session 2

Technologic Session 1

Technologic Session 2

8TH MARCH 2016

WS1

WS2

WS3

WS4

WS5

WS6

WS7

WS8



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7th March 2015

08h45-10h30 *Registration, Welcome coffee and sponsors booth (hall)*

10h00-10h15 *Introduction of the meeting by the coordination of EFOR*

SCIENTIFIC SESSION (Room 1)		SCIENTIFIC SESSION (Room 2)	
Stem cells and model species organized by Bertrand Pain		Preclinical models of stroke organized by Cyrille Orset (IN PROGRESS)	
10h30-11h00	☑ ☑ ☑ Brigitte Galliot (Univ. of Geneva, Switzerland): Epithelial plasticity, a path to fitness, regeneration and slow aging	10h15-11h00	Denis Vivien (INSERM, France):
11h00-11h30	Jean-Jacques Lareyre (INRA, France): Ultrastructural, functional, and molecular characterization of a spermatogonial stem cell subpopulation in zebrafish (<i>Danio rerio</i>)	11h00-11h45	Arthur Liesz (LMU, Germany):
11h30-12h00	Joshua Brickman (DanStem Centre, Denmark): Potency arising from conflict - embryonic stem cell identity and lineage specific transcription	11h45-12h15	Emmanuelle Canet-Soulas (INSERM, France): to be confirmed
12h00-12h30		12h15-12h45	Cyrille Orset (INSERM, France):

12h45-14h30 *Lunch (Cafeteria) and sponsors booth (hall)*

14h30-15h30 *Plenary session (Room 1)-sponsors presentations*

New England Biolabs

TECHNOLOGIC SESSION (Room 1)		TECHNOLOGIC SESSION (Room 2)	
Imaging, image analysis and databases: Novel techniques in Image acquisition and treatment organized by Barbara Rizzi & Arnim Jenett		Genome editing and ethics organized by Ivan Balansard	
15h30-16h00	Emmanuel Beaurepaire (CNRS, France): Multicolor and multicontrast nonlinear microscopy of developing tissues	15h30-16h00	Ivan Balansard (CNRS, France): General introduction
16h00-16h30	Ignacio Arganda-Carreras (Universidad del País Vasco, Spain): Numerical evaluation of whole <i>Drosophila</i> adult brain templates: a group-wise atlas solution	16h00-16h30	François Lachapelle (INSERM, France)
16h30-17h30	<i>Coffee break and sponsors booth (hall)</i>		
17h30-18h00		17h30-18h00	Erwan Bezard (Univ. Bordeaux, France): Towards transgenic non-human primates...
18h00-18h30	Ralf Mikut (Karlsruhe Institute of Technology, Germany): Automated image analysis of in vivo processes in model organisms - design of analysis pipelines, software, and applications	18h00-19h00	Round table
18h30-19h00			



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8th March 2016-Zebrafish WORKSHOP

08h45-09h15 *Registration*

09h15-09h30 *Introduction by the organizers*

Thematic 1 : Zebrafish: a model system for studying locomotor system related diseases

09h30-10h00 Coralie Fassier (IBPS, France): Spastin at the crossroads between development and degeneration of motor circuits

10h00-10h30 Antonella Forlino (Univ. of Padova, Italy): From zebrafish collagen I analysis to the use of a zebrafish Osteogenesis Imperfecta models for drug screening

10h30-11h00 *Coffee break and sponsors booth (hall)*

11h00-11h30 Curtis Boswell (Hospital for Sick Children, Toronto): Linking motile cilia dysfunction to the etiopathogenesis of adolescent idiopathic scoliosis

11h30-12h00 Julien Vermot (IGBMC, France): Zebrafish as a model organism to study cilia function and dynamics

12h00-13h30 *Lunch (Cafeteria) and sponsors booth (hall)*

13h30-14h15 Frédéric SOHM (AMAGEN platform, France): RESAMA network: annual assesment

Thematic 2 : (Eco-)toxicology studies with fish models

14h15-14h45 François Brion (INERIS, France): Transgenic zebrafish models and their use in EDCs research

14h45-15h15 Invited speaker (coming soon)

15h15-15h45 Till Luckenbach (Helmutz Center For Environmental research , Germany): Chemical uptake in the zebrafish embryo model: potentially important biological parameters

15h45-17h00 *Coffee break and sponsors booth (hall)*

17h00-17h30 Xavier Cousin (Ifremer, France): 1, 2, 3... different generations, different effects – multigenerational toxicity assessment of environmental mixtures

17h30-18h00 Barbara Rizzi (TEFOR, France): High Content Screening strategy based on the 3D morphology of medaka fry brain

18h00-18h30 *Concluding remarks*

7th annual meeting of the EFOR network, March 8th March 2016

ZEBRAFISH WORKSHOP

organized by Emilie Dambroise, Marion Delous, Noémie de Crozé and Marc Léonard

ROOM



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7th annual meeting of the EFOR network, March 8th 2015
Nematoda WORKSHOP
organized by Maïté Carré-Pierrat
ROOM

8th March 2016-Nematoda WORKSHOP

08h45-09h15 *Registration*

09h15-09h30 *Introduction*

Thematic 1: aging

09h30-10h00 Laurent Mouchiroud (EPFL, Switzerland): Mitochondria and aging: what can we learn from *Caenorhabditis elegans*

10h00-10h30 Hugo Aguilaniu (ENS Lyon, France): Molecular Links Between Longevity and Reproduction in *Caenorhabditis elegans*

10h30-11h00 *Coffee break*

Thematic 2: Models of human pathology

11h00-11h30 Julián Cerón Madrigal (Catalan Institute of Oncology, Spain): *Caenorhabditis elegans* to investigate a type of blindness and resistance to chemotherapeutic drugs

11h30-12h00 Christian Neri (IBPS, France): *Caenorhabditis elegans* for the study of biological resilience mechanisms to proteotoxicity in neurodegenerative disease

12h00-14h00 *Lunch (Cafeteria) and sponsors booth (hall)*

Thematic 3: Resource centre presentation

14h00-14h30 Christian Mougín (ECOSYS, France) : AgrobRC, the French national infrastructure "Agricultural Resources for Research"

Thematic 4: epigenetics

14h30-15h00 Chantal Wicky (Univ. Of Fribourg, Switzerland): Mi2 complexes as chromatin organisers of developmental programs

15h00-15h30 Sophie Jarriault (IGBMC, France)

15h30-16h45 *Coffee break and sponsors booth (hall)*

Thematic 5: Developmental and cell biology

16h45-17h15 Marie Delattre (ENS Lyon, France): Evolution of cellular traits in nematodes

17h15-17h45 Aymeric Bailly (CRBM, France): The nematode *Caenorhabditis elegans* for quantitative proteomics and FLIM-FRET approaches

17h45-18h30 *Concluding remarks*



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8th March 2016-Drosophila WORKSHOP

Drosophila: a model organism for aging and associated pathologies

08h45-09h15 *Registration*

09h15-09h30 *Introduction by the organizers*

09h30-10h00 Hervé Tricoire (CNRS, France): Multiple issues in modelizing degenerative diseases in *Drosophila*

10h30-11h00 *Coffee break and sponsors booth (hall)*

11h30-11h45 André Klarsfeld (CNRS, France):

12h00-13h45 *Lunch (Cafeteria) and sponsors booth (hall)*

13h45-14h15 Véronique Monnier (Univ Paris Diderot, France): *Drosophila* as a model to study cardiac aging and disease

15h15-15h30 Allison Bardin (CNRS, France): Genome stability during aging in *Drosophila* intestinal stem cells

15h30-16h45 *Coffee break and sponsors booth (hall)*

16h45-17h15 Bruno Lemaitre (EPFL, Switzerland): Remote control of intestinal stem cell activity by haemocytes in *Drosophila*

18h15-18h30 Michaël Rera (Univ Paris Diderot, France):

18h30-19h00 *Concluding remarks*



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8th March 2016-Non Human Primates WORKSHOP

08h45-09h15 *Registration*

09h15-09h30 *Introduction*

Thematic 1: Filovirus et Lyssavirus

09h30-10h00 Sebastien Calvignac Spencer (Robert Koch Institut, Germany): Ebola, les grands singes et les hommes

10h00-10h30 Sylvain Baize (CIRI & Institut Pasteur, France): Apport du modèle PNH pour l'étude de la physiopathologie et des réponses immunes au cours de la fièvre de Lassa

10h30-11h00 *Coffee break*

11h00-11h45 Nelly Ménard & Pascaline Le Gouar (CNRS, France): Impacts des épidémies à virus Ebola sur la dynamique et la génétique des populations de gorilles de plaine de l'ouest

11h45-12h00 Vincent Leblan (IRD, France): Impacts des politiques éco-sanitaires sur le futur des relations hommes-primates en Afrique de l'Ouest : cas d'Ebola

12h00-13h45 *Lunch (Cafeteria) and sponsors booth (hall)*

Thematic 2: HIV/SIV

13h45-14h30 Martine Peeters (IRD, France): Les primates non-humains : Réservoirs et Émergence de différentes souches de VIH

14h30-15h15 Roger Legrand (CEA, France): Intérêt du modèle PNH infecté par le SIV

15h15-15h30 Round table

15h30-16h45 *Coffee break and sponsors booth (hall)*

Thematic 3: HTLV/STLV

16h45-17h30 Antoine Gessain (Institut Pasteur, France): Les primates non-humains : Réservoirs et Emergences des HTLV et Foamy viruses

17h30-18h15 Renaud Mahieux (ENS Lyon, France): Utilisation d'un modèle de PNH naturellement infecté par le rétrovirus oncogène STLV-1

18h15-18h30 Round table

18h30-19h00 *Concluding remarks*



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8th March 2016-Avian models WORKSHOP

08h45-09h15 *Registration*

09h15-09h30 *Introduction by the organizers*

Thematic 1 : Development

09h30-10h00 Valérie Castellani (Univ. of Lyon, France): The avian embryo as a model to study pediatric cancers

10h00-10h30 Xavier Morin (ENS, Paris, France): Centrosomes and asymmetric cell division of neural progenitors

10h30-11h00 *Coffee break and sponsors booth (hall)*

11h00-11h30 Andrea Munsterberg (Univ. of East Anglia Norwich, UK): miRNA and Myogenesis in chick embryos

11h30-12h00 Isabel Palmeirim (Faro University Portugal): Chick limb Patterning: From Signaling Gradients to Molecular Oscillations

12h00-14h00 *Lunch (Cafeteria) and sponsors booth (hall)*

Thematic 2 : Chick and Quail Genomics

14h00-14h30 Wesley C. Warren (Univ. School of Medicine St Louis, USA): Avian genome model use for hypothesis testing

14h30-15h00 Jérôme Gros (Institut Pasteur, France): Quails as genetic model organisms to study the dynamics of morphogenesis in amniotes

15h00-15h30 Benjamin Schusser (Univ. of Munich, Germany): Utilizing primordial germ cell technology to generate gene knockouts in chickens

15h30-17h00 *Coffee break and sponsors booth (hall)*

17h00-17h30 Mickael Orgeur (UPMC, France): Genome wide strategy in chick

17h30-18h00 Christine Letterrier (INRA, France): QTL for behavioral traits in lines of Japanese quail

18h00-18h30 *Concluding remarks*



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8th March 2016-Marine Metazoa models WORKSHOP

08h45-09h15 **Registration**

09h15-09h30 **Introduction by the organizers**

09h30-10h00 Sarah Bouchemousse (Station Biologique de Roscoff, France): Secondary contacts of an alien tunicate with an interfertile native congener: a SNPs-based investigation in *Ciona* spp.
10h00-10h30 Invited speaker (coming soon)

10h30-11h00 **Coffee break and sponsors booth (hall)**

11h00-11h30 Jordi Garcia Fernandez (Univ. Of Barcelona, Spain): The amphioxus: gene regulation and brain evolution at the origin of Chordates
11h30-11h45 Discussion

12h00-13h45 **Lunch (Cafeteria) and sponsors booth (hall)**

13h45-14h15 Jenifer Croce (OBS Villefranche, France): The cradle of wnt genes: on the evolution of the wnt repertoires in metazoans
14h15-14h45 Patrick Lemaire (CRBM, France): A Trade-off Between Constraints on Embryo Geometry and on Regulatory Genome Evolution
Emmanuelle Renard (IMBE, France): Development of sponge "models" in evo-devo: state of the art. Available tools, interests and limits of *Oscarella lobularis* (Porifera)
14h45-15h15 *Homoscleromorpha*
15h15-15h30 Daniel Aldea (OBS Banyuls, France): Amphioxus illuminates the origin of the vertebrates' head

15h30-16h45 **Coffee break and sponsors booth (hall)**

16h45-17h15 Banafshé Larijani (Univ. of the Basque Country & IKERBASQUE, Spain): Nuclear Envelope Biogenesis and Female and Male Pronuclei Fusion Mechanisms in echinoderms
17h15-17h45 Nelly Godefroy (ISEM, France): Molecular networks regulated during a nutrition cycle in the carnivorous sponge *Lycopodina hypogea*
17h45-18h15 Invited speaker (coming soon)
18h15-18h30 Discussion

18h30-19h00 **Concluding remarks**



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8th March 2016-Lepidoptera WORKSHOP

08h45-09h15 *Registration*

09h15-09h30 *Introduction by the organizers*

Thematic 1 : Interactions of Lepidoptera with plants

09h30-10h10 Paul-André Calatayud (ECGE, France): Effect of plant silica on plant-*Lepidoptera* interaction

10h10-10h25 selected talk, 15 min

10h25-10h40 selected talk, 15 min

10h40-11h10 *Coffee break and sponsors booth (hall)*

11h10-11h50 Heiko Vogel (MPI, Germany): Adaptation to the host-plant

11h50-12h05 selected talk, 15 min

12h05-12h20 selected talk, 15 min

12h20-14h00 *Lunch (Cafeteria) and sponsors booth (hall)*

Thematic 2: Interactions of Lepidoptera with insects

14h00-14h40 Fernando L. Cônsoli (University of São Paulo, São Paulo): Interactions with *Hymenoptera*

14h40-15h10 Annette Hertz (Institute for Biological Control, Darmstadt, Germany): Use of *Trichogramma* wasps against *Cydalima perspectalis*

15h10-15h25 selected talk, 15 min

15h25-15h40 selected talk, 15 min

15h40-16h40 *Coffee break and sponsors booth (hall)*

Thematic 3: Interactions of Lepidoptera with microorganisms

16h40-17h20 Salva Herrero (Univ. of Valencia, Spain): Interactions with viruses & bacteria

17h20-18h00 Marcus C. Stensmyr (Univ. of Agricultural Sciences, Sweden): Odors of microbes

18h00-18h15 selected talk, 15 min

18h15-18h30 selected talk, 15 min

18h30-19h00 *Concluding remarks*



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8th March 2016-Arthropoda models WORKSHOP

08h45-09h15 *Registration*

09h15-09h30 *Introduction by the organizers*

Thematic 1: Patterning and segmentation

09h30-10h00 Siegfried Roth (Univ. Of Koeln, Germany): Evolution of dorsoventral patterning in insects

10h00-10h30 Michael Akam (Univ. Of Cambridge, UK): The Evolution of Arthropod Segmentation: A fresh look at the *Drosophila* paradigm

10h30-11h00 *Coffee break and sponsors booth (hall)*

11h00-11h30 Anna Gilles (CNRS, France): Cell dynamics during posterior elongation and segmentation in *Tribolium*

11h30-12h00 Johannes Schinko (CNRS, France): Posterior growth in *Tribolium*

12h00-14h00 *Lunch (Cafeteria) and sponsors booth (hall)*

Thematic 2: Evolutionary developmental biology

14h00-14h30 Abderrahman Khila (ENS Lyon, France): Development, selection, and species diversification

14h30-15h00 Alain Vincent (CNRS, France): Alary and Thoracic Alary-Related Muscles. Functions in flies, arthropods and beyond?

15h30-16h45 *Coffee break and sponsors booth (hall)*

Thematic 3: Genetic regulation

16h45-17h15 Alistair McGregor (Oxford, UK): How to build a spider: regulation of cell fate and segmentation in *Parasteatoda tepidariorum*

17h15-17h45 Xavier Franch (IBE, Spain): Genetic basis for the evolution of organ morphogenesis. The case of insect trachea.

17h45-18h15 Nicolas Gompel (LMU München, Germany): Regulatory evolution and the diversification of pigmentation patterns in *Drosophila*

18h30-19h00 *Concluding remarks*