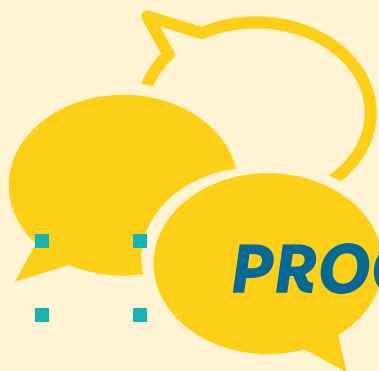
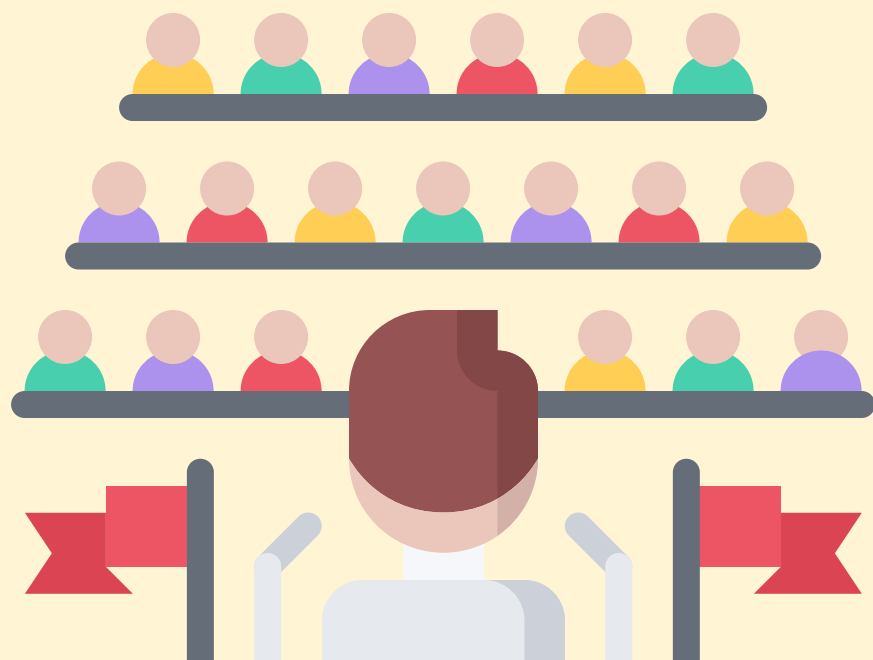


# FRENCH ZEBRAFISH MEETING

Montpellier, France  
October 18-20 2023



**PROGRAM BOOK**



Amphithéâtre Philippe  
Lamour  
Espace Agro Montpellier

# LOCAL ORGANISING COMMITTEE :

**Benedicte DELAVAL**

**CRBM, Montpellier**

**Responsable Scientifique Zefix**

**Jerôme SARNIGUET**

**MMDN, Montpellier**

**Responsable opérationnel Zefix**



# ZEFIX

ZEbraFish and Xenopus Platform

**Antoine Barbot**

**ViewPoint, Civrieux**

# ViewPoint

Behavior Technology



# SCIENTIFIC COMMITTEE

**Benedicte DELAVAL**  
**CRBM, Montpellier**

**Jerôme SARNIGUET**  
**MMDN, Montpellier**

**Chris JOPLING**  
**IGF, Montpellier**

**Catherine Gonzalez**  
**LPHI, Montpellier**

**Benjamin DELPRAT**  
**MMDN, Montpellier**

**Yoan ARRIBAT**  
**IRMB, Montpellier**

**Farida Djouad**  
**IRMB, Montpellier**

**Xavier Cousin**  
**MARBEC, Montpellier**

**Filippo DEL BENE**  
**Institut de la Vision, Paris**

**Guy MALKINSON**  
**College de France, Paris**

**German Sumbre**  
**IBENS, Paris**

**Claire WYART**  
**ICM, Paris**

**Anabela BENSIMON-BRITO**  
**CBI-MCD Toulouse**

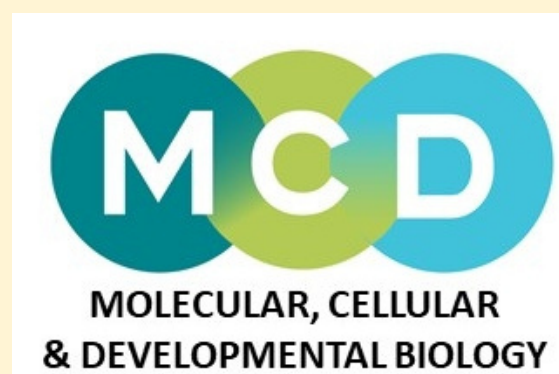
**Christelle LANGEVIN**  
**INRAE, Jouy en Josas**

**Dimitri RIGAUDEAU**  
**INRAE, Jouy en Josas**

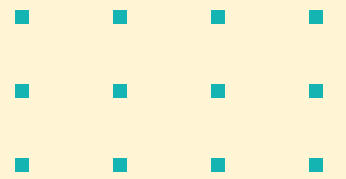
# SCIENTIFIC COMMITTEE



# INRAE



# Granted by :



The Company of Biologists is a not-for-profit publishing organisation dedicated to supporting and inspiring the biological community.



The European Zebrafish Society (EVS) is a network of fish researchers with the aim to promote the further development of fish models in biomedical research.



BioCampus Montpellier is a Research Support Unit of the Biology-Health and Agronomy, Environment and Biodiversity Clusters.



The French Society for Cell Biology (SBCF) is the French pool of students and researchers in the domain of Cell Biology.

PARTNER :

**ViewPoint**

Behavior Technology

EXHIBITOR LIST :

**ACQUIFER**  
A BRUKER COMPANY

 **PLANKTOVIEW**<sup>SAS</sup>  
Innovation for Aquatic Animal Research

**bionomous**

 **Sodispan s.l.**  
Research

**IDEXX BioAnalytics**

**sparos**  
I&D nutrition in aquaculture

**interscience**  
*pour la microbiologie*

**LXA Fishlab**

 **TECNIPLAST**  
*innovation through passion*<sup>SM</sup>

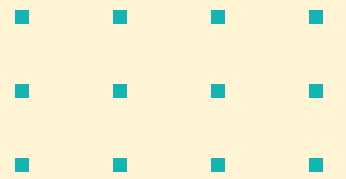
**Noldus**  
Information Technology

 **tefor**  
Paris-Saclay

**OXFORD INSTRUMENTS** **ANDOR**

**ZANTIKS**  
behaviour, simply

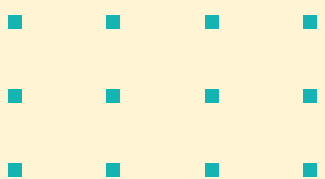
# ***PARTNER :***



- ***VIEWPOINT***

# ***EXHIBITOR LIST :***

- ***ACQUIFER***
- ***BIONOMOUS***
- ***IDEXX BIOANALYTICS***
- ***INTERSCIENCE***
- ***LXA FISHLAB***
- ***NOLDUS***
- ***OXFORD***
- ***PLANKTOVIE***
- ***SODISPAN RESEARCH***
- ***SPAROS***
- ***TECHNIPLAST***
- ***TEFOR***
- ***ZANTIKS***







**KEYNOTE SPEAKER:**

**Prof. Karina YANIV**

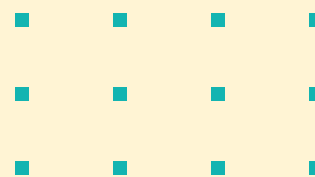
**Cancelled**

**Last minute information : Due to the situation in Israel, Karina Yaniv will not be able to attend the meeting. She has also decided to give up her place at the Keynote Talk, as the current conditions in Tel Aviv make it impossible to hold a videoconference in good conditions. We wish Ms Yaniv to stay safe and look forward to welcoming her to the next French zebrafish meeting.**

**Prof. Filippo Del Bene will replace Mrs Yaniv for the Keynote Talk.**



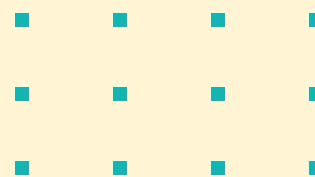
# Daily Plan



## Wednesday 18th October 2023 DAY 1

11:00 AM - 1:00 PM	Participants Registration
1:00 PM - 1:30 PM	Welcome Talk - Plateforme ZEFIX - VIEWPOINT Béatrice DELAVAL & Antoine Barbot
1:30 PM - 3:10 PM	Session I : Cell Biology and Development Pascale BOMONT & Guillaume VAN NIEL
3:10 PM - 3:40 PM	Coffee Break Exhibition
3:40 PM - 4:30 PM	Session II : Cancer Pierre Olivier ANGRAND & Vincent HYENNE
4:30 PM - 5:15 PM	Keynote Lecture Filippo Del Bene
5:15 PM - 5:45 PM	Sponsors Talks - Session I
5:45 PM - 7:30 PM	Poster Session I with some wine and cheese

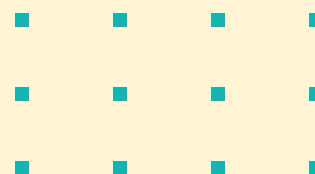
# Daily Plan



## Thursday 19th October 2023 DAY 2

9:00 AM - 10:00 AM	<i>Session III : Neurobiology and Neurosciences Filippo DEL BENE &amp; Owen RANDLETT</i>
10:00 AM - 10:30 AM	<i>Coffee Break Exhibition</i>
10:30 AM - 11:30 AM	<i>Session III : Neurobiology and Neurosciences Filippo DEL BENE &amp; Owen RANDLETT</i>
11:30 AM - 12:20 AM	<i>Session IV : Ageing and Metabolism Yoan ARRIBAT &amp; Aurelie QUILLIEN</i>
12:20 - 2:20 PM	<i>Lunch, Poster session II Exhibition</i>
2:20 PM - 3:20 PM	<i>Session V : Infection and Immunity Mai NGUYEN CHI &amp; Christelle LANGEVIN</i>
3:20 PM - 3:50 PM	<i>Sponsors Talk Session II</i>
3:50 PM - 4:20 PM	<i>Coffee Break Exhibition</i>
4:20 PM - 5:20 PM	<i>Session VI : Ecotoxicology and Environmental Toxicology Nadia SOUSSI YANICOSTAS &amp; Xavier COUSIN</i>
7:00 PM - 11 PM	<i>Social Event : Planet Ocean Montpellier including private visit and cocktail dinner</i>

# Daily Plan



**Friday 20th October 2023**

**DAY 3**

9:00 AM - 10:00 AM	Session VII : Regeneration Farida Djouad & Anabela BENSIMON-BRITO	9:00 AM - 12:00 PM	<p>Morning Parallel Session (Room 106 )</p> <ul style="list-style-type: none"> <li>Parallel Session I : Cryopreservation <u>Abdelkrim Mannioui</u></li> <li>Parallel Session II : Environmental enrichment <u>Marie-Laure BEGOUT</u></li> <li>Parallel Session III : Link between feed and zootechnical performance <u>Dimitri RIGAUDEAU &amp; Christelle LANGEVIN</u></li> </ul> <p>10:00 AM - 10:30 AM : Coffee Break Exhibition</p>
10:00 AM - 10:30 AM	Coffee Break Exhibition		
10:30 AM - 11:30 AM	Session VIII : Genetic diseases Benjamin DELPRAT & Guy MALKINSON		
11:30 AM - 12:00 AM	Closing Remarks and Discussion		
12:00 PM - 2:00 PM	Lunch, Poster session III Exhibition		
2:00 PM - 5:00 PM	Formation : 3R's applied to the zebrafish model		
5:00 PM	END of the Meeting		



# Sponsors Talks

Wednesday 18th October : 5:15 PM - 5:45 PM

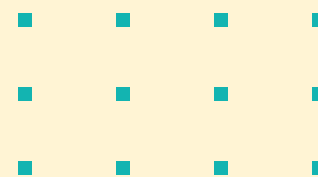
TIME	SPONSORS
5:15 PM - 5:20 PM	TEFOR
5:20 PM - 5:25 PM	VIEWPOINT
5:25 PM - 5:30 PM	SPAROS
5:30 PM - 5:35 PM	INTERSCIENCE
5:40 PM - 5:45 PM	TECHNIPLAST
5:45 PM - 5:50 PM	BIONOMOUS

Thursday 19th October : 3:20 PM - 3:50 PM

TIME	SPONSORS
3:20 PM - 3:25 PM	ANDOR
3:25 PM - 3:30 PM	LUXAQUA
3:30 PM - 3:35 PM	ZANTIKS
3:35 PM - 3:40 PM	IDEXX
3:40 PM - 3:45 PM	NOLDUS
3:45 PM - 3:50 PM	ACQUIFER

# 18th October

## Day 1



### Session I : Cell Biology and Development

Pascale BOMONT & Guillaume VAN NIEL  
1:30 PM - 3:10 PM

- Coralie FASSIER - Institut de la Vision Paris

Selective modifications of tubulin polyglutamylation patterns rescue the axonal defects caused by reduced levels of disease - causing microtubule-severing enzymes.

- Maximilian FURTHAUER - Université Côte d'Azur

Flow-dependent and flow-independent functions of unconventional type 1 Myosins in zebrafish Left-Right Asymmetry.

- Amelie ELOUIN - Ecole Polytechnique Palaiseau

A non-cell autonomous role of Myosin-II in guiding collective migration.

- Nicolas TAULET - CRBM Montpellier

Controlled cytokinesis ensures the maintenance of kidney tubule organization in vivo.

- Victor BERNARD - IGF Montpellier

Mecano-regulation of cardiac extracellular matrix in heart development and disease.

- Julie BATUT - CBI Toulouse

Zebrafish Olfactory Organ morphogenesis modelisation.

- Emilie DAMBROISE - Institut Imagine Paris

Phex and cranofacial skeleton : study of a new Pheloxlof Zebrafish model.

- Ramy ELSAID - Institut Curie Paris - Présenté by Aya MIKDACHE

a non-invasive light-inducible split-cre recombinase system for genome engineering in zebrafish embryos.

### Session II : Cancer

Pierre Olivier ANGRAND & Vincent HYENNE  
3:40 PM - 4:30 PM

- Vincenzo VERDI - Université de Paris

Manipulation of Tumor Extracellular vesicles biodistribution and uptake in vivo by a versatile cell-surface EV-trap.

- Marina PERALTA-LOPEZ - Centre de Recherche en Biomedecine Strasbourg

Deciphering the role of endothelial plasticity in metastasis.

- Amandine DUPAS - Centre de Recherche en Biomedecine Strasbourg

Endothelial intraluminal protrusions drive CTC arrest during endothelial remodeling- mediated extravasation.

- Vincent HYENNE - Université de Strasbourg

Tracking tumor extracellular vesicles on their way to premetastatic niches.

# Poster

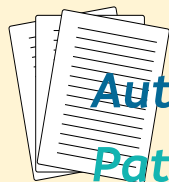
Wednesday 18th October  
Day 1

5:45 PM - 7:30 PM

18-1

Zebrafish embryo to model a persistent infection with clinical *Pseudomonas aeruginosa* isolates and treatment efficiency..

Presented by Stéphane Pont Institute : LPHI Montpellier

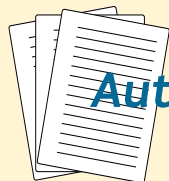


Authors : Stéphane Pont, Flore Nilly, Laurence Berry, Anne Bonhoure, Patrick Plésiat and Anne Blanc-Potard

18-2

DNA damage, Neurotoxicity, Oxidative Stress, Hematological response and Behavioral alteration in Zebrafish (*Danio rerio*) exposed to Polyvinylchloride (PVC) Microplastics: An Analysis of Microplastics Toxicity in Model Organism.

Presented by Muhammed Sinan Malik Institute : Periyar University, Salem, India



Authors : Muhammed Sinan Malik P.C, Devapriya, R. Maheshwaran.

18-3

Phenotypic characterization of a *kcnb1* knock-out zebrafish model in the context of epileptic and neurodevelopmental disorders.

Presented by Lauralee Robichon Institute : Imagine Paris

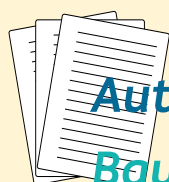


Authors : Lauralee Robichon, Claire Bar, Lisa Lehmann, Anca Marian, Solène Renault, Sorana Ciura, Edor Kabashi and Rima Nabbout

18-4

Defective autophagosome maturation and A152T-tau clearance in *fkbp4* mutant zebrafish.

Presented by Emilie Lesport Institute : Institut Professeur Baulieu

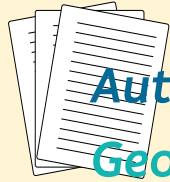


Authors : Lucie Commeau, Mélanie Genet, Marcel Tawk, Etienne Emile Baulieu, Julien Giustiniani and Emilie Lesport

**18-5**

Therapeutic approaches targeting calcium signaling limits inflammatory damage in a zebrafish model of cystic fibrosis.

Presented by [Cornélie Sarahdja Sarahdja](#) Institute : LPHI Montpellier

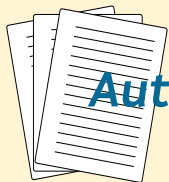


Authors : Sarahdja Cornélie, Sylvaine Brandt, Stephen Renshaw, Georges Lutfalla and Audrey Bernut

**18-6**

An axial sensory system informs development, posture and innate immunity

Presented by [Feng Quan](#) Institute : Brain Institute Paris

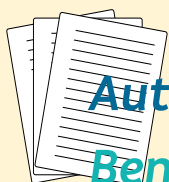


Authors : Feng Quan and Claire Wyart

**18-7**

Dual-topology of myotomal collagen XV-B and tenascin C acts in concert to guide and shape developing motor axons.

Presented by [Sandrine Bretaud](#) Institute : ENS Lyon

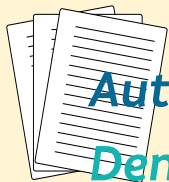


Authors : Laurie Nemoz-Billet, Martial Balland, Laurent Gilquin, Benjamin Gillet, Isabelle Stévant, Emilie Guillon, Sandrine Hughes, Gilles Carpentier, Elisabeth Vaganay, Vladimir Misiak, Mary-Julieth Gonzalez-Melo, Manuel Koch, Yad Ghavi-Helm, Florence Ruggiero and Sandrine Bretaud

**18-8**

NCS1 overexpression restored mitochondrial activity and behavioral alterations in a zebrafish model of Wolfram syndrome.

Presented by [Lucie Crouzier](#) Institute : Université de Montpellier



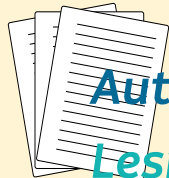
Authors : Lucie Crouzier, Elodie M. Richard, Camille Diez, Morgane Denus, Amandine Peyrel, Hala Alzaeem, Nicolas Cubedo, Thomas Delaunay, Tangui Maurice, and Benjamin Delprat



**18-9**

Schwann cells have a limited window of time to divide while migrating to initiate myelination in vivo.

Presented by Océane El Hage Institute : INSERM Paris

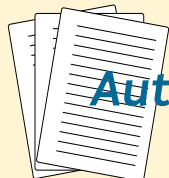


Authors : Océane El Hage, Aya Mikdache, Marie-José Boueid, Emilie Lesport, Brigitte Delespierre, Julien Loisel-Duwattez, Cindy Degerny and Marcel Tawk

**18-10**

Development of a pain scale in zebrafish.

Presented by Cynthia Froc Institute : CRNS Saclay

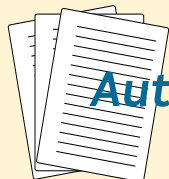


Authors : Froc Cynthia and Schwartz Marie-Elise

**18-11**

hand2 loss-of-function mutation causes aberrant pronephric phenotype in zebrafish.

Presented by Camilo Alfonso Sanabria Institute : CRBM Montpellier

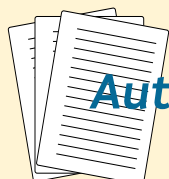


Authors : Sanabria, C.A. & Garavito-Aguilar, Z.V.

**18-12**

Understanding the role of the tubulin code in organism-wide functions.

Presented by Julie Dang Institute : Institut de la Vision

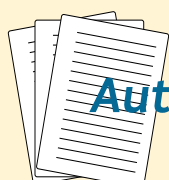


Authors : Julie DANG and Filippo DEL BENE

**18-13**

Study of the Glia-Neuron Crosstalk in the regulation of Neurofilament Dynamics in Zebrafish.

Presented by Jessy Van Asperen Institute : INMG-PGNM Lyon

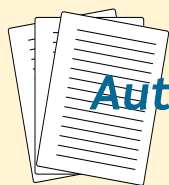


Authors : Van Asperen JV, Arias L and Bomont P.

**18-14**

The role of melatonin and its receptors on habituation learning in larval zebrafish.

Presented by [Dominique Baas](#) Institute : Université Claude Bernard Lyon 1

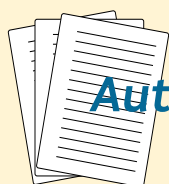


Authors : D. Baas , I. Darvaux-Hubert , R. Dorado Doncel and O. Randlett

**18-15**

Investigations of zebrafish lines with loss-of-function mutations in the genes encoding the skeletal muscle sodium channel Nav1.4 orthologs.

Presented by [Sophie Nicole](#) Institute : IGF Montpellier

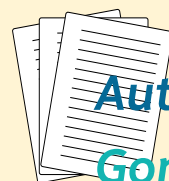


Authors : C. Bernat, Y. Issa, A. Mkadmi, A. Lesage, P. Lory and S. Nicole

**18-16**

Duality between congenital and ageing associated cardiovascular calcification.

Presented by [Nuno-Valerio Santos Silva](#) Institute : Marseille Medical Genetics

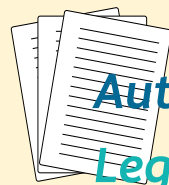


Authors : Nuno Valério Santos-Silva, Luisamaria C. Matiz, Bárbara Gonçalves-Cardoso, Catherine Robert, Camille Humbert, Inês Cristo, Stephane Zaffran and Anabela Bensimon-Brito

**18-17**

Development of active-targeting liposomes for better treatment of pediatric acute megakaryoblastic leukemia (AMKL).

Presented by [Céline Delansay](#) Institute : Institut Galien Paris Saclay

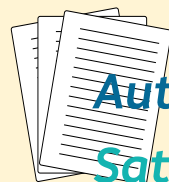


Authors : Celine Delansay, Jean-Philippe Michel and François-Xavier Legrand

**18-18**

In The Eye Of The Swarm - Studying Neutrophil Swarm Resolution in vivo.

Presented by [Nils Olijhoek](#) Institute : University of Sheffield



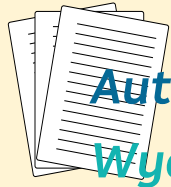
Authors : Nils I. Olijhoek, Catherine A. Loynes, Sankeert Satheesan, Phil M. Elks and Stephen A. Renshaw



**18-19**

Optimization of a protocol of primary culture of zebrafish sensory neurons for drug screening.

Presented by Loeva Tocquer Institute : Brain Institute Paris



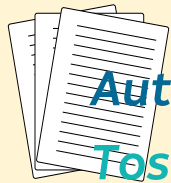
Authors : Loeva Tocquer, Hugo Marnas, Laetitia Straehl and Claire Wyart



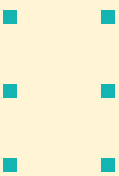
**18-20**

Study of environmental parameters influencing activity of the caudal neurosecretory system in zebrafish.

Presented by Berenice Bichon Institute : Musée National d'Histoire Naturelle

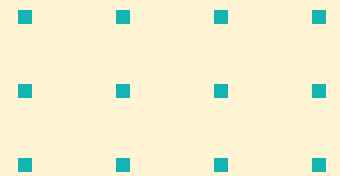


Authors : Bérénice Bichon, Gladys Alfama, Anne-Laure Gaillard, Hervé Tostivint and Guillaume Pézeron



# 19th October

## Day 2



### Session III : Neurobiology and Neurosciences

Filippo DEL BENE & Owen RANDLETT  
9:00 AM - 10:00 AM

- Jonathan BOULANGER-WEILL - Institut de la Vision Paris

Validation of a neural integrator circuit through correlated light and electron microscopy.

- Elena PUTTI - Institut de la Vision Paris

LRRN2 and LRRN3a Govern Precise Retino-Tectal Circuit Formation in the zebrafish Visual System.

- Adrien JOUARY - Champalimaud Research

Megabouts : A toolbox for quantifying zebrafish locomotion.

- Giulia Faini - Institut de la Vision Paris

Fast, efficient and flexible manipulation of neuronal activity with single cell precision.

- Melina KOHLER - KIT Germany

Temporal single-cell transcriptomic analysis of the sox1a:eGFP transgenic line identified the lateral floor plate progenitor cells as the origin of intraspinal serotonergic neurons.

### Session III : Neurobiology and Neurosciences

Filippo DEL BENE & Owen RANDLETT  
10:30 AM - 11:30 AM

- Feng QAN - Brain Institute Paris

Investigation of the functional roles of a human genetic factor involved in the etiopathogenesis of adolescent idiopathic scoliosis in a zebrafish model.

- Soumaiya IMARRAINE- Sorbonne University

Cholinergic modulation of anti-correlated activity in the aversive brain.

- Elise CAU - Université Toulouse

Contribution of the eye and of opn4xa function to circadian photoentrainment in the diurnal zebrafish.

- Aya MIKDACHE - Institut Curie Paris

Sox2 and sox3 modulate the development and regeneration of the zebrafish lateral line.

Session IV : Ageing and Metabolism

Yoan ARRIBAT & Aurelie QUILLIEN

11:30 AM - 12:20 AM

- Miguel GODINHO-FERREIRA - Université Côte d'Azur

cGAS-STING is required for senescence and aging in telomerase deficient zebrafish.

- Prateek CHAWLA - Technische Universität Dresden

"Tobe ( $\beta$ ) or not to be ( $\beta$ )": a quest to investigate De NOVO  $\beta$ -cell regeneration.

- Julian PERRIN - INM Montpellier

Characterization and functional analysis of KD and KO models of the mitochondrial DNA replication gene *ssbp1*.

- Aurélie QUILLIEN- Restore Inserm Toulouse

Sarcosensors : new tools to detect and predict the onset and progression of sarcopenia in zebrafish.

Session V: Infection and Immunity

Mai NGUYEN CHI & Christelle LANGEVIN

2:20 PM - 3:20 PM

- Pedro HERNANDEZ CERDA - Institut Curie

Role of host-microbiota crosstalk on gut physiology.

- Annette VERGUNST - Université de Montpellier

Elucidating the molecular basis for the difference between persistent and acute fatal infections caused by the opportunistic bacterium *Burkholderia cenocepacia* in zebrafish larvae.

- Audrey BERNUT - LPHI Montpellier

Curcumin-mediated NRF2 induction simultaneously enhances host defense against infections and limits inflammatory damage in preclinical models of cystic fibrosis.

- Raquel LAMA-LOPEZ- INRAE Jouy en Josas

Contribution of reverse genetics and in vivo imaging techniques in zebrafish larvae to better understand spring viremia of carp virus infection.

Session VI: Ecotoxicology and Environmental Toxicology

Nadia SOUSSI YANICOSTAS & Xavier COUSIN

4:20 PM - 5:20 PM

- Audrey PHAN - Recetox Masaryk University

An Adverse Outcome Pathway for Retinoid Signaling Disruption: implications for Craniofacial Malformation, Feeding Behavior, and Mortality in Zebrafish early development.

- Sara KASSIR - Université de Bordeaux

Identification of obesogens using zebrafish larvae as a model.

- Mélanie BLANC-LEGENDRE - INRAE Marbec

Role of brain aromatase in mediating early and late behavioral defects in the context of endocrine disruption.

- Vincenzo DI DONATO - Ze Clinics

Harmonizing embryonic zebrafish Light/Dark Behavior Test for the OECD Developmental NeuroToxicity In Vitro Battery: last advances of an international consortium.

- Constantin YANISCOSTAS - Université Paris

The zebrafish: a powerful model to study the molecular and cellular basis of autism syndrome disorders.

## **Social Event Information**

**The Social Event will be held at Planet Ocean Montpellier  
Only the persons who registered for the Social event can attend  
(Entrance at Planet Ocean will be validated upon remittance of a  
voucher. The voucher will be given with the badges)**

**Address : Centre commercial Odysseum, All. Ulysse, 34000 Montpellier**

**You will have to make your own way there.**

**Make sure you're there on time if you don't want to miss the private tour  
of Espace Ocean.**

**A Planet Ocean aquarist will be on hand during the tour. Topics will  
include : The role of aquariums and zoos in the conservation of species,  
relations with the world of research, the many similarities and a few  
differences between the breeding of zebrafish and Planet Ocean's  
residents.**

**For those who registered to the Social Event, the evening will continue  
in a pub in Montpellier and we will be happy to welcome you there if you  
wish.**

**Free drinks will be offered ...**

**Address : Barberousse, 6 Rue Boussairolles, 34000 Montpellier**



# Poster

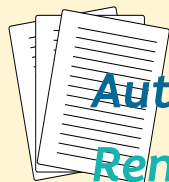
Thursday 19th October  
Day 2

12:20 - 2:20 PM

19-1

*Gingerol treatment can simultaneously promote host defences and reduce inflammatory damage in a context of cystic fibrosis.*

Presented by Sylvaine Huc-Brandt Institute : LPHI Montpellier

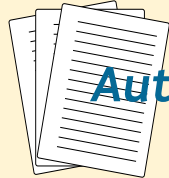


Authors : S. Huc-Brandt, A. Fortuin, M. Lagune, L. Marshall<sup>3</sup>, A. Floto, S. Renshaw, J.-L. Herrmann, A. Bernut

19-2

*Meningeal repair is dependent on PDGFRb signalling and involves migration of arachnoid cells.*

Presented by Payel Banerjee Institute : Neuro - PSI Saclay

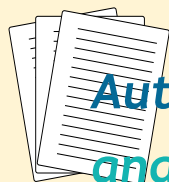


Authors : Payel Banerjee, Dorian Champelovier and Jean-Pierre Levraud

19-3

*Morphological and behavioral analysis of BMAA in zebrafish larvae.*

Presented by Jeanne Lichtfouse Institute : Université de Nîmes

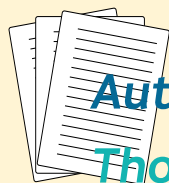


Authors : Lichtfouse Jeanne, Courtier Audrey, Vergunst Annette and Giannoni Patrizia

19-4

*Novel Multiplexed Time-lapse Imaging Tools: Quantifying Kidney Regeneration Post Laser Injury.*

Presented by Sankeert Satheesan Institute : Acquirer Imagine GmbH

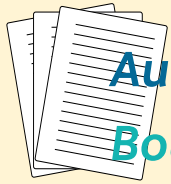


Authors : Sankeert Satheesan, Jana Heigwer, Jens H. Westhoff, Laurent Thomas and Jochen Gehrig



**19-5** Identifying motor unit specific alterations in FUS deletion mutant zebrafish model of ALS.

Presented by Xhuljana Mingaj Institute : Institut Imagine

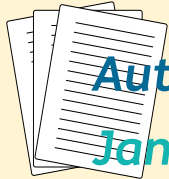


Authors : Xhuljana Mingaj, Maria-Letizia Campanari, Annis Bouferis, Anca Marian, Ivan Nemazanyy, Chiara Guerrera, Sorana Ciura and Edor Kabashi

**19-6**

In Vivo efficacy of NITD-916 against Mycobacterium fortuitum.

Presented by Claire Hamela Institute : Institut de Recherche en Infectiologie Montpellier

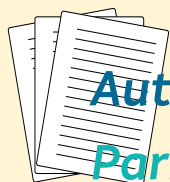


Authors : Claire Hamela, Françoise Banères-Roquet, Matthéo Alcaraz, Jan Abendroth, Thomas E. Edwards and Laurent Kremer

**19-7**

Function of Ust2r signalling in spine formation and homeostasis.

Presented by Guillaume Pezeron Institute : MMHN

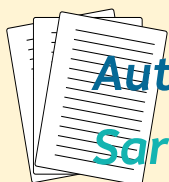


Authors : Faredin Alejevski, Bérénice Bichon, Fabrice Girardot, Caroline Parmentier, Anne-Laure Gaillard, Gladys Alfama, Guillaume Pézeron and Hervé Tostivint

**19-8**

Using zebrafish larvae as a behavioral model to assess the pathogenicity of a HOMER2 nonstop variant segregating with dominant deafness.

Presented by Christel Vaché Institute : CHU Montpellier

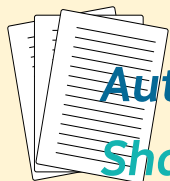


Authors : Christel Vaché , Nicolas Cubedo , Luke Mansard , Jérôme Sarniguet , David Baux, Valérie Faugère , Corinne Baudoin , Melody Moclyn , Renaud Touraine Geneviève Lina-Granade , Mireille Cossee , Anne Bergognoux , Vasiliki Kalatzis, Mireille Rossel and Anne-Françoise Roux

**19-9**

Generation of a GAL4 driver line in the locus of the dopamine 1 receptor.

Presented by Agnès Hocquemiller Institute : Brain Institute Paris

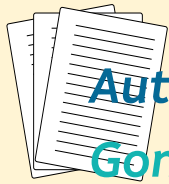


Authors : Agnès Hocquemiller, Loéva Tocquer, Martin Carbo-Tano, Shahad Albadri, Filippo Del Bene, Feng Quan and Claire Wyart

**19-10**

The role of ECM in zebrafish cardiac valve regeneration.

Presented by [Barbara Cardoso](#) Institute : AIDFM Lisboa



Authors : Nuno Valério Santos-Silva, Luisamaria C. Matiz, Bárbara Gonçalves-Cardoso, Catherine Robert, Camille Humbert, Inês Cristo, Stephane Zaffran and Anabela Bensimon-Brito

**19-11**

Activation of the PERK pathway in zebrafish tauopathy models.

Presented by [Mireille Rossel](#) Institute : INSERM Montpellier

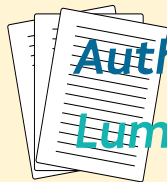


Authors : Eva Coumes, Clément Barbereau, Nicolas Cubedo, Jérôme Sarniguet, Jean-Charles Liévens, Angeleen Fleming, Ana Lopez, Marie-Laure Parmentier, Tangui Maurice and Mireille Rossel

**19-12**

Zebra fish : Rapid help in interpreting rare variants in ALS.

Presented by [Arthur Forget](#) Institute : CHU Nîmes

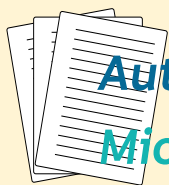


Authors : Forget A, Chudinova A, Rossel M, Guissart C, Raoul C, Lumbroso S and Mouzat K

**19-13**

Understanding the role of the tubulin code in organism-wide functions.

Presented by [Malo Serafini](#) Institute : Institut de la Vision

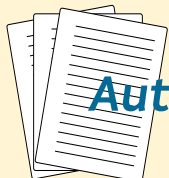


Authors : Malo Serafini, Marion Rosello, Carine Giovannangeli, Marina Mione, Jean-Paul Concordet, Filippo Del-Bene

**19-14**

Analysis of the caudal neurosecretory system at the single cell level.

Presented by [Fabrice Girardot](#) Institute : MMHN

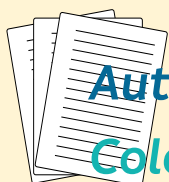


Authors : Girardot F., Pezeron G., Tostivint H. and Cahueau M

**19-15**

Evaluation of RFX7 as a mis-spliced target gene in the pathophysiology of minor spliceosome-deficient microcephalic syndromes .

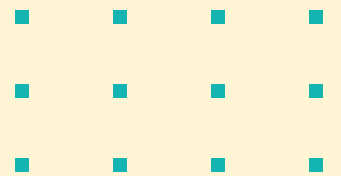
Presented by [Cyril Jovani](#) Institute : University Claude Bernard Lyon



Authors : Cyril Jovani, Marianne Gaubert, Deepak Khatri, Audric Cologne, Anne Meiller, Justine Guguin, Alicia Besson, Sylvie Mazoyer, Marion Delous

# 20th October

## Day 3



### Session VII : Regeneration

Farida DJOUAD & Anabela BENSIMON-BRITO

9:00 AM - 10:00 AM

- Joao CARDEIRA DA SILVA - Max Planck Institute

A link between the endocardium and antigen presentation underlies zebrafish heart regeneration.

- Jourdano MAURICIO MANCILLA ABAROA - Institut Genomique Montpellier

The ion channel *Trpc6a* regulates the cardiomyocyte regenerative response to mechanical stretch.

- Luisamaria MATIZ - AIDFM Lisboa

Zebrafish innate immune response in cardiac valve regeneration and disease.

- Valentina CIGLIOLA - Université Côte d'Azur

Spinal cord repair is modulated by the neurogenic factor *Hb-egf* under direction of a regeneration-associated enhancer.

- Dora SAPEDE - IRMB Montpellier

Zebrafish as an *in vivo* model to study mesenchymal stem cell regulatory effect on macrophages during regeneration.

### Session VIII : Genetic diseases

Benjamin DELPRAT & Guy MALKINSON

10:30 AM - 11:30 AM

- Marion COOLEN - Institut Imagine Paris

Decrypting the impact of defective *PRDM13* function on hindbrain development using the zebrafish model.

- Christelle GOLZIO - CERBM-GIE IGBMC Strasbourg

Loss of autism-candidate *CHD8* perturbs neural crest development and intestinal homeostatic balance.

- Marion DELOUS - CRNL/UCBL Lyon

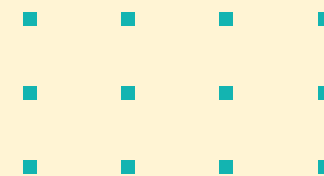
The zebrafish model to elucidate the pathophysiological mechanisms of a microcephalic syndrome associated with minor splicing defects.

- Pascale BOMONT - Institut Neuromyogène Lyon

Physiological roles of the neuromuscular junction: imaging & therapeutic development.

- Elodie RICHARD - MNDN Montpellier

Heterozygous variants in *ZFR* cause neurodevelopmental alterations, intellectual disability, and microcephaly.



**Morning Parallel Session :**  
**Room 106**  
**9:00 AM - 12:00 PM**

**48 places disponibles**

- **Parallel Session I : Cryopreservation**

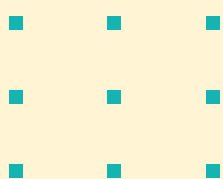
**Abdelkrim Mannioui**

- **Parallel Session II : Environmental enrichment**

**Marie-Laure BEGOUT**

- **Parallel Session III : Link between feed and zootechnical performance**

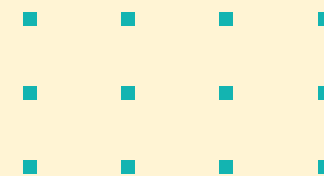
**Dimitri RIGAUDEAU & Christelle LANGEVIN**



**10:00 AM - 10:30 AM**

**Coffee Break**  
**Exhibition**





## **FORMATION :**

**3R's applied to the zebrafish model**

**Jerôme SARNIGUET & Catherine GONZALEZ**

**JP.MOCHO & K.MESBAH**

- 1. Génotype et phénotype : Les exigences réglementaires**
- 2. Analgésie pour poissons zèbres**
- 3. Points limites adaptés aux poissons zèbres**
- 4. Sévérité des protocoles utilisant les poissons zèbres**
- 5. Euthanasie des poissons zèbres**
- 6. Discussion**

**3:30PM - 3:50 PM**

**Coffee Break  
Exhibition**



**The schedule/programme may still be subject to change.**

# Poster

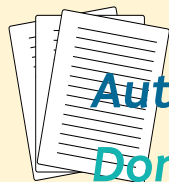
Friday 20th October  
Day 3

12:00 PM - 2:00 PM

20-1

*T-type calcium channels are required for sinoatrial pacemaker function and atrioventricular conduction in zebrafish larvae.*

Presented by Juan Llopis Institute : Universidad de Castilla-La Mancha

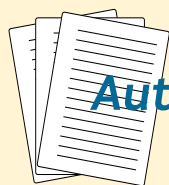


Authors : Salgado J, Molina Y, Vicente M, Martinez A, Vincent P, Domingo B and Llopis J

20-2

*Assessment of microplastics toxicity on Zf model.*

Presented by Christelle Langevin Institute : INRAE Jouy en Josas

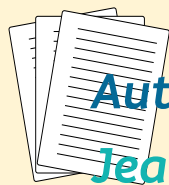


Authors : Maxence Frétaud, Dimitri Rigaudeau and Christelle Langevin

20-3

*Fish experimental unit IERP for the in vivo investigations of human and animal diseases.*

Presented by Manon Mehraz Institute : INRAE Jouy en Josas

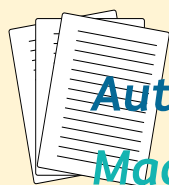


Authors : Baby Naznin, Manon Mehraz, Maxence Frétaud, Jean-Philippe Renault, Stéphanie Devineau and Christelle Langevin

20-4

*A pilot project to produce, breed and distribute germ-free zebrafish as potent tools for the study of host- microbe interactions..*

Presented by Dimitri Rigaudeau Institute : INRAE Jouy en Josas



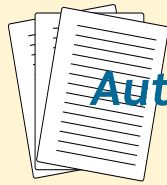
Authors : D. Rigaudeau, M.Frétaud, D.Pérez-Pasqual, A.De Souza, Magalie Bouvet, JM.Ghigo and P.Boudinot



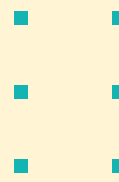
**20-5**

Neural circuit repair in the zebrafish optic tectum.

Presented by Diego Topsakalian Institute : ENS Paris



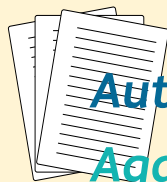
Authors : Topsakalian Diego and Sumbre German



**20-6**

Characterization of the energetic metabolism of zebrafish uveal melanoma models.

Presented by Francesca Lorenzini Institute : University of Trento

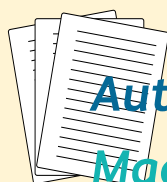


Authors : Francesca Lorenzini, Antonella Calore, Stephanie Marini, Agata Carreira and Marina Mione

**20-7**

Behavioural pharmacology predicts disrupted signalling pathways and candidate therapeutics from zebrafish mutants of Alzheimer's disease risk genes.

Presented by François Kroll Institute : Institut de la Vision

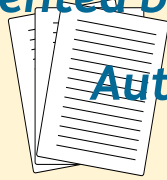


Authors : François Kroll, Joshua Donnelly, Güliz Gürel Özcan, Eirinn Mackay and Jason Rihel

**20-8**

Dynamic changes of macrophage polarization favor intracellular survival of Salmonella and shape disease outcome in zebrafish.

Presented by Mai Eva Nguyen Chi Institute : LPHI

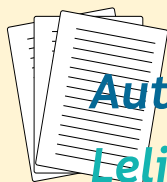


Authors : Jade Leiba et al

**20-9**

CEACAMz1 as a novel marker of proton pump-rich ionocytes on the zebrafish epidermis.

Presented by Laure Yatime Institute : LPHI



Authors : Julien Kowalewski, Théo Paris, Catherine Gonzalez, Etienne Lelièvre, Lina Castaño Valencia, Morgan Boutros, Camille Augier, Georges Lutfalla and Laure Yatime

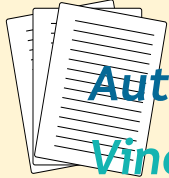




**20-10**

From bench to bedside: zebrafish childhood epilepsy F0 models for target validation and high-throughput drug discovery.

Presented by [Flavia Desantis](#) Institute : ZeClinics

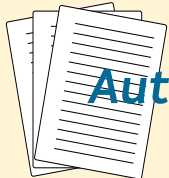


Authors : Silvia Locubiche Serra, Victor Ordoñez, Elena Abad Adan, Vincenzo Di Donato and Flavia De Santis

**20-11**

CRISPR / Cas9 strategy for modeling motor neuron diseases in zebrafish.

Presented by [Aixin Li](#) Institute : Institut Imagine

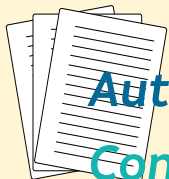


Author : Aixin Li

**20-12**

Neural stem cell redox biology : the role of redox signaling in retinal progenitor cell differentiation.

Presented by [Shahad Albadri](#) Institute : Institut de la Vision

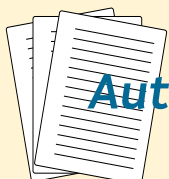


Authors : Shahad Albadri, Mayrone Mongellaz, Xia Tang, Gonzalo Rios Conception, Alice Pailleret, Jie He and Filippo Del Bene

**20-13**

Identification of Neuronal Neurotransmitter Type.

Presented by [Sarah Nourin](#) Institute : IBENS

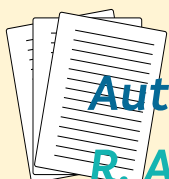


Authors : Enrique Hansen and Sarah Nourin

**20-14**

Zebrafish models and endocrine disruptors.

Presented by [Nathalie Hinfrey](#) Institute : INERIS



Authors : Hinfrey N, Piccini B, Chadili E, Maillot-Maréchal E, Beaudouin R, Aït-Aïssa S and Brion F