



### Science Meeting – Scientific Report

**Scientific report (one single document in WORD or PDF file) should be submitted online within two months of the event. It should not exceed seven A4 pages.**

***Proposal Title:* *Quan Tissue* “**Mechanics and mechanisms for tissue shaping**”**

***Application Reference N°:* **4793****

#### **1) Summary (up to one page)**

The activity sponsored by the ESF Quantitative Models of Cellular and Developmental Biology network was intended to provide a specific workshop to the participants of the 8th European Zebrafish Meeting (<http://www.zebrafish2013.org>). The biannual European Zebrafish Meeting covers a wide range of topics of zebrafish research. The meeting in Barcelona lacked a specific session in which the integration of quantitative biology, biophysics, imaging and morphogenesis could be discussed. The workshop took place on Tuesday 9th of July, prior to the welcome reception of the Zebrafish Meeting. Four forefront scientists in different subjects were invited to present and discuss their novel work. In addition, four more researchers were selected from abstracts submitted to the general meeting. The activity took place in one of the main rooms of the Palau de Congressos de Catalunya, one of the most moderns conference halls in Barcelona. The workshop was organized by Hernán López-Schier (Helmholtz Zentrum München) and Berta Alsina (Universitat Pompeu Fabra). Virginie Lecaudey (University of Freiburg) and Berta Alsina (Universitat Pompeu Fabra) chaired the workshop. The ESF Workshop was announced in the Meeting Webpage (<http://www.zebrafish2013.org/workshops/>), in several specific distribution emailing lists (ie. developmental biologists in Spain, zebrafish researchers in the world), and finally to all participation of the 8<sup>th</sup> European Zebrafish Meeting. The participation to this workshop

was high, with 160 people participants. The total number of participants to the 8<sup>th</sup> European Zebrafish Meeting was around 867. The participants were from all over the world, but the countries with more participants ordered by numbers were UK, US, Germany, Spain, France, Canada, Netherlands, Italy, Switzerland, Japan.

## 2) Description of the scientific content of and discussions at the event (up to four pages)

As mentioned, the Quan Tissue workshop “Mechanics and mechanisms for tissue shaping” consisted of 8 talks; 4 of 30 minutes and 4 of 20 minutes. For the description of the scientific content, I reproduce here the node blog published at the node July 22<sup>nd</sup> reporting the QuanTissue Workshop ( report by Joaquin Letelier)

“The 8th European zebrafish meeting first started with the “**ESF QuanTissue**” workshop, a 4 hour session where speakers showed current research about basic mechanisms that regulate cellular behavior during morphogenetic processes. Talks were given by outstanding scientists studying in detail mechanistic behind epiboly, rhombomeres and MHB formation, proneuromast assembly, somitogenesis, and tracheal morphogenesis.

In the first talk, **Carl-Philipp Heisenberg** showed how the Enveloping Cell Layer spreads during epiboly to completely engulf the embryo at the end of gastrulation. Using laser cuts, cell ablation and embryo deformation to induce ectopic tension, he dissected the role of orientation of the mitotic spindle as a key regulator of this process. Then, **Guillaume Salbreux** and **Philippe-Alexandre Pouille**, talked about physics behind epiboly, how pulling forces and friction govern the movement of cells during early gastrulation and mediates shape changes.

Next, **Cristina Pujades** finely showed the role of apical actomyosin cables in cell segregation during rhombomeres boundary formation. Acting as barriers, these cables prevent cells to intermingle between adjacent rhombomere domains. Before the coffee break, **Jordi Casanova** (the fly “intruder”), showed his beautiful data about how tracheas are formed by migration and cell intercalation during development, a process that require modification of cadherin accumulation to change cell shape and allow cells to execute their normal behavior.

Later on, **Mansi Gupta** explored the relevance played by the extracellular matrix on the establishment of gradients of secreted factors (like *fgf8*) during gastrulation. Heparan sulfate molecules perform an active role in gradient formation regulating *fgf8* diffusion from its source. Then, **Virginie Lecaudey**, showed her fantastic work related to dissect signaling pathways required for rosette formation during proneuromast assembly. These rosettes are formed by constriction of the apical side of epithelial cells mediated by *fgf* signaling. She showed that *shroom3* is essential for rosette formation and that this gene acts downstream of *fgf* signaling to promote apical constriction and hence rosette formation in the proneuromast. Finally **Daniele Soroldoni**, showed amazing data related to the role of gene expression waves during somitogenesis. He visualized the activity of the segmentation clock and quantitatively compared the rate of somite formation and the release of gene expression waves in the pacemaker region. Surprisingly, he found that the period in the pacemaker region is different to the period of somitogenesis. Overall, the workshop was very interesting, with high quality talks. The mechanistic behind different processes during development is getting unraveled.”

The talks presented at the workshop covered different aspects of developmental biology, as well as the use of different model organisms, mainly zebrafish and *Drosophila*. The most prominent feature was the necessity of acquiring high-resolution life images to analyse the dynamics of the biological processes combined with the use of mathematics and physics. This allows integrating biological with quantitative/numerical data of physical and biological parameters and the formulation of models to reproduce in a better way distinct levels of biology.

All the talks were of excellent quality with not published presenting data. For this reason, there was a good discussion. The participants that approached me after the workshop were very enthusiastic about the talks and the discussion.

### **3) Assessment of the results and impact of the event on the future directions of the field (up to two pages)**

The zebrafish model is emerging as one of the best models to study biology for several reasons, its small size and easy maintenance outside its natural environment, its high numbers of offsprings, its easy use for drug screening and finally its high power of genetics and life imaging. For this reason, the zebrafish community is expanding at high speed around the world and this organism is not only used in basic research but is now being introduced in many pharmaceutical companies, medical institutions and well as biophysics laboratories. Together with the expansion of zebrafish in biomedical research and technology, the European Zebrafish meeting has also grown. The first zebrafish meeting started in the US, with its 11th edition right now. The European community is now on its 8<sup>th</sup> edition. Every two years, an european city hosts the meeting. This year was the biggest european meeting to date reaching a total of 866 participants, many of them coming from the US. Thus, the European meeting is now becoming as successful as the american one. Together with this, we want to stress that the zebrafish model is becoming a very interesting vertebrate model to perform quantitative biology due to the above-mentioned qualities. In fact, in recent years more and more studies are using the zebrafish system for quantitative biology and systems biology. For this reason was of high importance to organize the workshop of QuanTissue at the European Zebrafish Meeting. This has allowed for scientists in the zebrafish field working in other subjects to get interested in the approaches of biophysics and mathematical modeling, as well as to promote the ESF Quantissue network.

During the coffee break many participants has the opportunity to talk to the speakers, as well as to further discuss the projects. The discussion went on after the workshop at the Welcome Reception held to all the participants of the 8<sup>th</sup> European Zebrafish Meeting.

I suspect that the workshop might have fostered new collaborations or at least have positioned some of the research performed through the ESF network in a broad prespective.

4) Annexes 4a) and 4b): Programme of the meeting and full list of speakers and participants

Annex 4a: Programme of the meeting

TUESDAY 9 JULY

TUESDAY

10.30am - 6.00pm · Workshop Prensa II

## Working with Zebrafish Genome Resources

ORGANIZER: Wellcome Trust Sanger Institute

10.30 - 10.50am Introduction to Genome Assemblies  
10.50 - 11.45am Databases and de novo analysis of sequence  
11.45am - 1.00pm Genome Browsing  
1.00 - 2.00pm Lunch  
2.00 - 3.30pm Exploring sequence variation and disease  
3.30 - 4.00pm Coffee Break  
4.00 - 5.30pm Comparative Sequence Analysis  
5.30 - 6.00pm Discussion

2.00 - 6.30pm · Workshop Room J

## ESF QuanTissue workshop

2.00 - 2.30pm Cell and tissue mechanics in zebrafish gastrulation  
Carl-Philipp Heisenberg, Inst. of Science and Technology, Austria  
2.30 - 3.00pm Physics of tissue spreading and contraction  
Guillaume Salbreux, MPI, Physics of Complex Systems, Germany  
3.00 - 3.20pm Cell segregation in the vertebrate hindbrain relies on actomyosin cables located at the interhombomeric boundaries  
Cristina Pujades, Universitat Pompeu Fabra-PRBB, Spain  
3.20 - 3.50pm Genetics and forces in Drosophila tracheal morphogenesis  
Jordi Casanova, Institute for Research in Biomedicine, PCB, Spain  
3.50 - 4.30pm Coffee break  
4.30 - 4.50pm Regulation of Fgf8 morphogen gradient by the extracellular matrix  
Mansi Gupta, DFG-Center for Regenerative Therapies, Germany  
4.50 - 5.20pm Shroom3 is required downstream of FGF signaling to mediate proneuromast assembly in zebrafish  
Virginie Lecaudey, Center for Biological Signalling Studies, Germany  
5.20 - 5.40pm On the origin of kinematic waves of gene expression in the vertebrate segmentation clock  
Daniele Soroldoni, MPI, Molecular Cell Biology & Genetics, Germany  
5.40 - 6pm Hydrodynamic analysis to measure mechanical tension and energy supply driving Zebrafish epiboly  
Philippe-Alexandre Pouille, Institut de Biologia Molecular de Barcelona, Spain  
6 - 6.30pm Discussion

3.00 - 7.00pm · Registration

7.00pm · Welcome reception Gardens of the Hotel Rey Juan Carlos I

The flyer of the ESF Quan Tissue workshop that was used to advertise was:

## ESF Quan Tissue Workshop

9th July Barcelona- 2-6.30 pm

in Association with 8th European Zebrafish Meeting

### *Mechanics and Mechanisms for tissue shaping*

**2-2.30pm Carl-Philipp Heisenberg**

*Institute of Science and Technology, Austria*

**"Cell and tissue mechanics in zebrafish gastrulation"**

**2.30-3pm Guillaume Salbreux**

*MPI for the Physics of Complex Systems, Germany*

**"Physics of tissue spreading and contraction"**

**3pm-3.20pm Cristina Pujades**

*Universitat Pompeu Fabra-PRBB, Spain*

**"Cell segregation in the vertebrate hindbrain relies on actomyosin cables located at the interhombomeric boundaries"**

**3.20pm-3.50pm Jordi Casanova**

*Institute for Research in Biomedicine, PCB, Spain*

**"Genetics and forces in Drosophila tracheal morphogenesis"**

**3.50-4.30pm Coffee break**

**4.30-4.50pm Mansi Gupta**

*DFG-Center for Regenerative Therapies, Germany*

**"Regulation of Fgf8 morphogen gradient by the extracellular matrix"**

**4.50-5.20pm Virginie Lecaudey**

*Center for Biological Signalling Studies, Germany*

**"Shroom3 is required downstream of FGF signaling to mediate proneuromast assembly in zebrafish"**

**5-20-5.40pm Daniele Soroldoni**

*MPI of Molecular Cell Biology and Genetics, Germany*

**"On the origin of kinematic waves of gene expression in the vertebrate segmentation clock"**

**5.40-6pm Philippe-Alexandre Pouille**

*Institut de Biologia Molecular de Barcelona, Spain*

**"Hydrodynamic analysis to measure mechanical tension and energy supply driving Zebrafish epiboly"**

**6-6.30pm Discussion**

#### Organizers

Hernán López-Schier, *Helmholtz Zentrum München*

Berta Alsina, *Universitat Pompeu Fabra*

**Palau de Congressos de Catalunya**

Av. Diagonal, 661-671

08028 Barcelona

**OPEN ENTRANCE**

The final programme of the 8th European Zebrafish Meeting with a total of 140 talks divided in 6 Plenary Sessions and 5 Concurrent Sessions can be found at:

<http://www.zebrafish2013.org/wp-content/uploads/2013/07/Program-Oral-Presentations.pdf>

## **Annex 4b: Full list of speakers and participants**

### **ESF QuanTissue Speakers:**

Carl-Philipp Heisenberg, Institute of Science and Technology, Austria  
Guillaume Salbreux, MPI for the Physics of Complex Systems, Germany  
Cristina Pujades, Universitat Pompeu Fabra-PRBB, Spain  
Jordi Casanova, Institute for Research in Biomedicine, PCB, Spain  
Mansi Gupta, DFG-Center for Regenerative Therapies, Germany  
Virginie Lecaudey, Center for Biological Signalling Studies, Germany  
Daniele Soroldoni, MPI of Molecular Cell Biology and Genetics, Germany  
Philippe-Alexandre Pouille, Institut de Biologia Molecular de Barcelona, Spain

### **Participants:**

The QuanTissue Workshop was open to all the participants of the 8<sup>th</sup> European Zebrafish meeting and the scientific community not working in zebrafish. We did not register the name of the participants of the workshop but almost all of them were participants of the 8<sup>th</sup> European Zebrafish Meeting (with few exceptions, scientists working in chick, *Drosophila*). We expected around 60-80 participants but we had to add more chairs at the last minute due to the high assistance. We count that a total of 160 participants came to the workshop.



## 8<sup>th</sup> European Zebrafish Meeting- speakers of each session are underlined

### Plenary session 01 - Advances in Imaging

Wednesday · 9.00 - 10.30am · Auditorium

CHAIR: Jan Huisken

**PL01-01 Dynamic three-dimensional imaging of cellular shape changes in the developing zebrafish heart**

Vikas Trivedi, Thai Trinh, Le Trinh, Daniel Holland, Michael Liebling, Scott Fraser

**PL01-02 Three-dimensional, in-vivo, blood velocity quantification in zebrafish embryos**

Luca Fieramonti, Efrem Foglia, Stefano Malavasi, Cosimo Dandrea, Gianluca Valentini, Franco Cotelli, Andrea Bassi

**PL01-03 Hyperdimensional vertebrate phenotyping with high-throughput micron-resolution whole-animal tomography**

Carlos Pardo-Martin, Amin Allalou, Peter Eimon, Carolina Wählby, Fatih Yanik

**PL01-04 Systems-based discovery in the zebrafish skeleton using micro-computed tomography**

Philippe Huber, Brandon Ausk, Edith Gardiner, Steven Bain, Sundar Srinivasan, Ted Gross, Ronald Kwon

**PL01-05 Fast functional imaging of multiple brain regions in intact zebrafish larvae using selective plane illumination microscopy**

Thomas Panier, Sebastian Romano, Olive Raphaël, Pietri Thomas, Sumbre German, Candelier Raphaël, Debrégeas Georges

**PL01-06 Panoramic light-sheet microscopy reveals global endodermal cell dynamics**

Gopi Shah, Benjamin Schmid, Nico Scherf, Michael Weber, Konstantin Thierbach, Citlali Pérez Campos, Ingo Roeder, Pia Aanstad, Jan Huisken

### Plenary session 02 - Patterning and cell signalling

Wednesday · 11.00 - 12.30am · Auditorium

CHAIR: Paola Bovolenta

**PL02-01 Lypd6 enhances Wnt/ $\beta$ -catenin signaling by promoting LRP6 phosphorylation in raft plasma membrane domains**

Günes Özhan, Erdinc Sezgin, Daniel Wehner, Susanne J. Köhl, Birgit Kagermeier-Schenk, Michael Köhl, Petra Schwillie, Gilbert Weidinger

**PL02-02 Implications of Furin-mediated maturation of Nodal for the establishment of cardiac laterality in zebrafish**

Federico Tessadori, Emily Noël, Manon Verhoeven, Sonja Chocron, Jeroen Bakkers

**PL02-03 Bucky ball interacts with RNA binding proteins to pattern the oocyte and follicle cells in zebrafish**

Amanda Heim, Odelya Hartung, Sophie Rothhämel, Andreas Jenny, Florence Marlow

**PL02-04 The phosphatase calcineurin is required for setting the tissue boundaries between bones by instructing bone progenitor cells to become joint cells during regeneration of the zebrafish fin skeleton**

Rene Bernitz, Satu Kujawski, Christopher Antos

**PL02-05 Cxcr4a controls Cell Segregation of Telencephalic and Eye Field Progenitors**

Holger Bielen, Shelson Lim, Corinne Houart

**PL02-06 Otx proteins shape the zebrafish eye field by direct repression of Rx3**

Raquel Marco-Ferreres, Leonardo Beccari, Noemi Tabanera, Paola Bovolenta

### Concurrent session 01 - Morphogenesis and Organogenesis

Wednesday · 11.00 - 12.30am · Auditorium

CHAIR: Enrique Martín-Blanco

**CS01-01 Tissue architecture and constraints play a role in the emergence of non-apical progenitors in zebrafish retinal development**

Weber Isabell, Ramos Ana-Patricia, Norden Caren

**CS01-02 Cadherins regulate cell geometry and cell division orientation in zebrafish lens epithelium**

Toshiaki Mochizuki, Shohei Suzuki, Asako Sakaue-Sawano, Atsushi Miyawaki, Ichiro Masai

**CS01-03 A tissue-intrinsic mechanism controls the chirality of heart looping**

Emily Noël, Manon Verhoeven, Anne Karine Lagendijk, Federico Tessadori, Kelly Smith, Suma Choorapoikayil, Jeroen den Hertog, Jeroen Bakkers

**CS01-04 Heartbeat driven pericardial fluid forces direct epicardium morphogenesis**

Marina Peralta, Emily Steed, Sebastien Harlepp, Jose Manuel González-Rosa, Ana Ariza, Jose Luis Gomez-Skarmeta, Alfonso Cortés, Agustín Zapata, Julien Vermot, Nadia Mercader

**CS01-05 A dynamic view of the inner ear hollowing**

Esteban Hoijman, Berta Alsina

**CS01-06 The Digital Ear Project: a framework for systems-level studies of zebrafish inner ear development**

Nikolaus Obholzer, Kishore Mosaliganti, Sean Megason

**CS01-07 Capturing interactions between renal and cardiovascular development by two-photon, time-lapse microscopy of glomerulogenesis in the zebrafish**

Rachel Verdon, Ewan McGhee, Kurt Anderson, Ulrich Wiegand, Sari Pennings

**CS01-08 Mechanical control of zebrafish epiboly movements by hydrodynamics**

Amayra Hernandez-Vega, Maria Marsal, Philippe Pouille, Julien Colombelli, Tomàs Luque, Daniel Navajas, Enrique Martín-Blanco

## Concurrent session 02 · Cardiovascular development

Wednesday · 3.00 - 5.00pm · Room F

CHAIR: Stefan Schulte-Merker

### CS02-01 **SoxF and Notch directly control arterial identity through combined gene activation**

Natalia Sacilotto, Rui Monteiro, Martin Fritzsche, Philipp Becker, Philip Pinheiro, Ke Liu, Roger Patient, George Bou-Gharios, Sarah De Val

### CS02-02 **Notch signaling establishes the hemogenic potential of the dorsal aorta though Gata2b**

Emerald Butko, Tom Smith, David Stachura, Wilson Clements, Nathan Lawson, David Traver

### CS02-03 **Distinct functions of Cadherin5 during the formation of the common cardinal vein in zebrafish**

Christian Helker, Heinz-Georg Belting, Markus Affolter, Wiebke Herzog

### CS02-04 **GPR124 signalling at the zebrafish blood-brain barrier**

Benoit Vanhollenbeke, Emilie Maquet, Oliver Stone, Richard Daneman, Didier Stainier

### CS02-05 **Ubiad1 is a new antioxidant enzyme protecting cardiovascular tissues in vertebrates**

Vera Mugoni, Ruben Postel, Valeria Catanzaro, Elisa De Luca, Emilia Turco, Giuseppe Digilio, Lorenzo Silengo, Michael P. Murphy, Claudio Medana, Didier Y.R. Stainier, Jeroen Bakkers, Massimo M. Santoro

### CS02-06 **Gene traps reveal a dynamin-dependent functional difference between arteries and veins for protein and drug uptake**

Le Trinh, Sharon Lin, Russell Jacobs, Scott Fraser

### CS02-07 **Mechanodetection of hemodynamic forces in the developing endocardium**

Emilie Heckel, Julien Vermot

### CS02-08 **Of mice and men (and fish) – lymphangiogenesis in the vertebrate embryo**

Stefan Schulte-Merker

## Concurrent session 03 · Breeding and husbandry

Wednesday · 3.00 - 5.00pm · Room J

CHAIR: Robert Gleiser

### CS03-01 **Cryopreservation of testicular tissues and the re-establishment of the strains from cryo-preserved spermatogonial stem cells using surrogate system in medaka**

Kiyoshi Naruse, Shinsuke Seki, Seungki Lee, Yoshiko Iwasaki, Tadashi Hiratsuka, Kazunari Kusano, Endo Sumie, Takao Sasado, Goro Yoshizaki

### CS03-02 **Primordial germ cells as an alternative source for gene banking in zebrafish**

Marta F. Riesco, Paz Herráez, Vanesa Robles

### CS03-03 **Pain in fish: behavioural and physiological responses to fin clipping in zebrafish**

Clare Andrews, Craig McLaren, Ignacio Vinuela-Fernandez, Gidona Goodman

### CS03-04 **Zebrafish and 3R's: Refinement, Reduction and Replacement**

Karthika Paranthaman, E. Elizabeth Patton

### CS03-05 **Every egg counts: food trials to maximise fry survival and promote healthy development**

Nicola Goodwin, Elisabeth Busch-Nentwich, Ross Kettleborough, James Bussell, Derek L. Stemple

### CS03-06 **Status report on EZRC and ZIRC**

Robert Geisler, Carole Wilson, Zoltan Varga

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Thursday 11 July

## Plenary session 03 · Gene regulation and genomics

Thursday · 9.00 - 10.30am · Auditorium

CHAIR: José Luis Gómez Skarmeta

### PL03-01 **The Zebrafish Reference Genome Sequence**

Kerstin Howe, on behalf of the Zebrafish Genome Sequencing Consortium, and the Genome Reference Consortium

### PL03-02 **A novel technology to capture and analyze lineage-specific gene expression profiles in zebrafish**

Todd Townsend, H Joseph Yost

### PL03-03 **Identification of the global cis-regulatory elements bound by Etsrp/Etv2 in zebrafish embryos**

Gustavo Gomez, Matthew B Veldman, Jing Lu, Xi Ren, Jing Zhang, Li Lin, Jiang Liu, Shuo Lin

### PL03-04 **Efficient site-specific transgenesis and enhancer activity tests in medaka using PhiC31 integrase**

Stephan Kirchmaier, Burkhard Höckendorf, Eva Katharina Möller, Francois Spitz, Joachim Wittbrodt

### PL03-05 **A mutation in a distal, ultra conserved PAX6 enhancer reveals a novel causative mechanism for Aniridia**

Shipra Bhatia, Hemant Bengani, Margaret Fish, Alison Brown, Robert Grainger, Veronica Heyningen, Dirk Kleinjan

### PL03-06 **Dissecting the components of transcriptional regulation during the maternal-to-zygotic transition using high throughput sequencing**

Miler Lee, Ashley Bonneau, Valeria Yartseva, Carter Takacs, Elizabeth Fleming, Kate Divito, Ariel Bazzini, Antonio Giraldez

## Plenary session 04 · New technologies for gene manipulation

Thursday · 9.00 - 10.30am · Auditorium

CHAIR: Koichi Kawakami

### PL04-01 **The zebrafish CreZoo: An easy-to-handle database for novel CreERT2-driver lines**

Peggy Jungke, Stefan Hans, Michael Brand

### PL04-02 **Optogenetic tools for in vivo analysis of regeneration in zebrafish**

Carole Gauron, Jérémie Teillon, Christine Rampon, David Bensimon, Ludovic Jullien, Michel Volovitch, Sophie Vrız

### PL04-03 **Site-directed transgenesis into single genomic landing sites with phiC31**

Christian Mosimann, Ann-Christin Puller, Katy L. Lawson, Leonard I. Zon

### PL04-04 **Mutagenesis efficiencies of ZFNs and TALENs assembled using multiple platforms**

Raman Sood, Blake Carrington, Kevin Bishop, MaryPat Jones, Paul Liu

### PL04-05A **High-throughput strategy to map insertional elements in the zebrafish genome**

Gaurav K. Varshney, Matthew LaFave, Jing Lu, Derek Gildea, David Casero, Hiba Codore, Takashi Hirase, Haigen Huang, Sunny Huang, Li-En Jao, Melissa McNulty, Deborah Mosbrook-Davis, Helen Ngoc Bao Quach, Wuhong Pei, Nam Pho, Christoph Seiler, David Schoenfeld, Shijie Tao, Mark Urban, Pavle Vrljicak, Ian Woods, Zhongan Yang, Suiyuan Zhang, Steve Zimmerman, Harold Burgess, Karl J. Clark, Stephen C. Ekker, Richard Hardy, Dietmar Kappes, Matteo Pellegrini, Jennifer Rhodes, Karuna Sampath, Alexander F. Schier, David Wiest, Tyra Wolfsberg, Bo Zhang, Shuo Lin, Shawn M. Burgess

### PL04-06 **A Gal4 driver resource for developmental biology and neuroscience in zebrafish**

Koichi Kawakami, Deepak Ailani, Kazuhide Asakawa, Hideyuki Tanabe, Pradeep Lal, Andrew Steven Miller, Akira Muto, Hironori Wada, Akiko Yoshino

## Concurrent session 04 · Stem cells and regeneration

Thursday · 3.00 - 5.00pm · Auditorium

CHAIR: Laure Bally-Cuif

### CS04-01 **Dopamine from the brain promotes spinal motor neuron generation during development and adult regeneration**

Michell M. Reimer, Anneliese Norris, Jochen Ohnmacht, Rickie Patani, Zhen Zhong, Tatyana Dias, Veronika Kuscha, Angela Scott, Yu-Chia Chen, Stanislav Rozov, Sarah Frazer, Cameron Wyatt, Shin-ichi Higashijima, Elizabeth Patton, Perti Panula, Siddharthan Chandran, Thomas Becker\*, Catherina Becker\*

### CS04-02 **Slow-amplifying progenitors display specific expression of nucleotide and ribosome biogenesis transcripts in zebrafish midbrain**

Gaëlle Recher, Julia Jouralet, Alessandro Brombin, Aurélie Heuze, Emilie Mugniery, Jean-Michel Hermel, Sophie Desnoulez, Thierry Savy, Franck Bourrat, Nadine Peyrieras, Françoise Jamen, Jean-Stéphane Joly

### CS04-03 **Autophagy is required for zebrafish caudal fin regeneration**

Máté Varga, Miklós Sass, Diána Papp, Krisztina Takács-Vellai, Daniel Kliensky, Tibor Vellai

### CS04-04 **Regulation of tissue growth during Zebrafish caudal fin regeneration through the Hippo pathway**

Rita Mateus, Gonçalo Brito, Fábio Valério, António Jacinto

### CS04-05 **Clonal analysis and characterization of zebrafish hematopoietic stem and progenitor cells (HSPCs)**

David Stachura, Valerie Wittamer, Julien Bertrand, Ondrej Svoboda, Petr Bartunek, David Traver

### CS04-06 **The *rys* mutant reveals a novel regulator of retinal stem cells in the zebrafish CMZ**

Maria Augusta Sartori da Silva, Monica Dixon-Fox, Michael Mattocks, Natalie Sorfazlian, Jason Willer, Ronald Gregg, Vincent Tropepe

### CS04-07 **TNF and Notch function as positive and negative regulators of Muller glia proliferation during regeneration of the light-damaged zebrafish retina**

David Hyde, Craig Nelson, Clay Conner, Kristin Ackerman, Patrick OHayer, Travis Bailey, Ryne Gorsuch

### CS04-08 **Notch 3 signaling gates cell cycle entry and limits neural stem cell amplification in the adult pallium**

Alessandro Alunni, Monika Krecsmarik, Adriana Boscop, Sonya Galant, Pan Luyuan, Cecilia B. Moens, Laure Bally-Cuif

## Concurrent session 05 · Sensory systems

Thursday · 3.00 - 5.00pm · Room F

CHAIR: Alex Nechiporuk

### CS05-01 **Mechanisms for stepwise formation and functional diversification of neurons in the inner ear**

Bruce Riley, Husniye Kantarci

### CS05-02 **Foxi1 provides a neuronal ground state during inner ear induction preceding the *Dlx3b/4b* regulated sensory lineage**

Stefan Hans, Anne Irscher, Michael Brand

### CS05-03 **More than meets the eye: co-expression analyses of encephalic opsins uncover photosensory inter- and motoneurons in the vertebrate central brain**

Ruth Fischer, Bruno Fontinha, Stephan Kirchmaier, Satchidananda Panda, Simon Rumpel, Kristin Tessmar-Raible

### CS05-04 **A microfluidic device to study chemically-induced neural activity and behaviour in zebrafish larvae**

Raphaël Candelier, Meena Murmu, Sebastian Romano, Thomas Pietri, Adrien Jouary, Georges Debrégeas, German Sumbre

### CS05-05 **TRPM7 is required for neurotransmission by zebrafish hair cells**

Sean E. Low, Serhiy Pylawka, A. James Hudspeth

### CS05-06 **Molecular tattooing in live zebrafish: inhibition of myosin II dependent processes in space and time**

Miklos Kepiro, Boglarka H. Varkuti, Katalin Kis Petik, Miklos Z. Kellermayer, Mate Varga, Andras Malnasi-Csizmadia

CS05-07 **RA and FGF signalling act in an opposing manner to regulate the patterning and maintenance of the ventral otic vesicle**

Esther C. Maier, Tanya T. Whitfield

CS05-08 **Fgf3 and Fgf10 act in concert to induce epibranchial placodes**

Alex Nechiporuk, Matthew N. McCarroll

### Concurrent session 06 · Physiology and disease

Thursday · 3.00 - 5.00pm · Room J

CHAIR: Vincent Cunliffe

CS06-01 **Rab18 is essential for lipid mobilization during embryogenesis in zebrafish**

Yann Gibert, Susan Nixon, Daniel Fraher, Joan Cher, Piers Walsler, Sean McGee, Carol Kistler, Sally Martin, Robert Parton

CS06-02 **Loss and gain of FUS function impair neuromuscular synaptic transmission in a genetic model of ALS**

Gary Armstrong, Pierre Drapeau

CS06-03 **Exercise induction of cellular and molecular adaptations in skeletal muscle of adult zebrafish**

Mireia Rovira, Arjan P. Palstra, Josep V. Planas

CS06-04 **Syntaxin18 cis-SNARE complex is a novel alarm factor that detects vesicular transport defects**

Yuko Nishiwaki, Asuka Yoshizawa, Yutaka Kojima, Eri Oguri, Shohei Nakamura, Shohei Suzuki, Junichi Yuasa-Kawada, Mariko Kinoshita-Kawada, Toshiaki Mochizuki, Ichiro Masai

CS06-05 **TRPV channel-dependent activation of IGF signaling regulates calcium deficiency-induced epithelial remodeling**

Dai Wei, Hebda Lisa, Zhong Xueping, Cunming Duan

CS06-06 **The Zebrafish pineal-specific AgRP homologue: a possible link between energy balance and the circadian clock?**

Inbal Shainer, Shahar Alon, Yoav Gothilf

CS06-07 **New insights into the regulation of steroidogenesis: P450 side-chain cleavage enzyme (Cyp11a2) and ferredoxin (Fdx1b) specifically regulate steroid hormone synthesis in zebrafish**

Aliesha Griffin, Silvia Parajes, Angela Taylor, Cedric Shackleton, Ferenc Müller, Krone Nils

CS06-08 **Regulatory mechanisms and pharmacological control of epileptic seizures in zebrafish**

Paola Meza Santoscoy, Simon Hand, Vincent Cunliffe

### Concurrent session 07 · Immunity and Infection

Thursday · 5.30 - 7.00pm · Auditorium

CHAIR: Anna Huttenlocher

CS07-01 **Irg1-like promotes leukocyte migration by regulating mitochondrial ROS-driven mmp9 expression within epidermal cells**

Chris Hall, Rachel Boyle, Kathy Crosier, Phil Crosier

CS07-02 **Deciphering the role of inflammation and innate immunity during pancreas and fin regeneration in zebrafish**

Mathieu Lévesque, Steven Leach

CS07-03 **Diversity of class I major histocompatibility genes from divergent haplotypes in zebrafish**

Sean McConnell, Karlynn Neu, Anthony Restaino, Jill de Jong

CS07-04 **VegfC modulates the activity of the transcription factor Sox18 in early phases of lymphangiogenesis**

Solei Cermenati, Silvia Moleri, Christine Neyt, Alice Omini, Mathias François, Benjamin M. Hogan, Monica Beltrame

CS07-05 **The use of zebrafish embryos to understand enterococcal disease**

Tomasz Prajsnar, Gareth McVicker, Simon Foster, Stephane Mesnage, Stephen Renshaw

CS07-06 **Imaging leukocyte migration to tissue damage**

Anna Huttenlocher

### Concurrent session 08 · Endoderm

Thursday · 5.30 - 7.00pm · Room F

CHAIR: Didier Stainier

CS08-01 **Metabolic control of pancreatic endocrine differentiation**

Nikolay Ninov, Dan Hesselton, Philipp Gut, Didier Stainier

CS08-02 **Retinoic acid controls differentiation of pancreatic progenitors via regulation of Sox9b expression**

Michael Parsons, Wei Huang

CS08-03 **Cell type and tissue specific function of islet genes in zebrafish pancreas development**

Armin Wilfinger, Valeriya Arkhipova, Dirk Meyer

CS08-04 **Homeostatic generation of reactive oxygen species protects the zebrafish liver from steatosis**

Takuya Sakaguchi

CS08-05 **Dissecting the pancreas genetic networks using a novel expression disruption screen in zebrafish**

Silvia Naranjo, Solangel Rivero-Gil, Yolanda Roncero, José Luis Gómez-Skarmeta, Jose Bessa

CS08-06 **Screening for modulators of glucose homeostasis**

Didier Stainier

## Concurrent session 09 · Evolution

Thursday · 5.30 - 7.00pm · Room J

CHAIR: Ingo Braasch

### CS09-01 **Comparative transcriptomic and epigenomic analyses in distantly related teleost species identify a collection of conserved regulatory nodes active during the vertebrate phylotypic period**

Juan Tena, Cristina González-Aguilera, Ana Fernández-Miñan, Helena Parra-Acero, Joachim Wittbrodt, Jaime Carvajal, José Luis Gómez-Skarmeta, [Juan R. Martínez-Morales](#)

### CS09-02 **Activity of an ancient cis-regulatory module in the vertebrate lens is determined by deeply conserved enhancer and repressor sequences**

[Stefan Pauls](#), Debbie Goode, Greg Elgar

### CS09-03 **The zebrafish *tbx5* paralogue has redundant roles during heart and pectoral fin morphogenesis**

[Carolina Minguillon](#), Aina Pi-Roig

### CS09-04 **Retinoic acid controls tooth morphology and number in Cypriniformes**

[Eric Samarut](#), Yann Gibert, Emmanuel Pasco-Viel, Laure Bernard, Véronique Borday-Birraux, Stefan Schulte-Merker, Patrick Prunet, Laurent Viriot, Vincent Laudet

### CS09-05 **Evolution of the neo-Y chromosome through co-option of Sox3 in a medaka-related fish**

[Yusuke Takehana](#), Masaru Matsuda, Haruo Masuyama, Taijun Myosho, Maximiliano Suster, Koichi Kawakami, Tadasu Shin-i, Yuji Kohara, Yoko Kuroki, Atsushi Toyoda, Asao Fujiyama, Satoshi Hamaguchi, Mitsuru Sakaizumi, Kiyoshi Naruse

### CS09-06 **Zebrafish connects to human biology through the spotted gar genome**

[Ingo Braasch](#), Peter Batzel, Jason Sydes, Ryan Loker, Angel Amores, John H. Postlethwait

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Friday 12 July

## Plenary session 05 · Brain and neural crest development

Friday · 9.00 - 10.30am · Auditorium

CHAIR: M. Ángela Nieto

### PL05-01 **Determining the contribution of neural crest to the post-cranial dermal skeleton**

Raymond Lee, Ela Knapik, Jean-Paul Thiery, [Tom Carney](#)

### PL05-02 **Rabconnectin-3a regulates vesicle endocytosis and canonical wnt signaling in zebrafish neural crest migration**

[Adam Tuttle](#), Trevor Hoffman, Tom Schilling

### PL05-03 **Building a retina: deciphering intrinsic and extrinsic influences on cell fate**

Henrik Boije, William A. Harris

### PL05-04 **Understanding the function of Fgf signaling pathway in collective cell migration during the establishment of left right brain asymmetry**

[Myriam Roussigne](#), Matina Tsalavouta, Patrick Blader, Steve Wilson

### PL05-05 **Specific function of Gpr126 signaling at the onset of myelination**

Thomas Glenn, Kevin Paavola, [William Talbot](#)

### PL05-06 **Scratch2 prevents cell cycle re-entry by repressing miR-25 in postmitotic primary neurons**

Eva Rodríguez-Aznar, Alejandro Barrallo-Gimeno, [M. Ángela Nieto](#)

## Concurrent session 10 · Cancer

Friday · 11.00am - 12.30pm · Auditorium

CHAIR: Liz Patton

### CS10-01 **Role of the LMO1 oncogene in neuroblastoma pathogenesis**

Shizhen Zhu, Shuning He, Rebecca Stanton, Feng Guo, Andrew Wood, John Maris, [A. Thomas Look](#)

### CS10-02 **Micro-RNA mediated downregulation of JMJD6 is a critical step in ras induced transformation**

[Marina Mione](#), Viviana Anelli, Cristina Santoriello, Anita Ordas, Elisa Alghisi, Meijer Annemarie

### CS10-03 **Cdc94 promotes genomic stability and the ionizing radiation-induced G2 cell cycle checkpoint**

[Shelly Sorrells](#), Kaitlin Basham, Cristhian Toruno, Erik Harrington, Brett Milash, Rodney A. Stewart, Cicely Jette

### CS10-04 **Mechanisms of DNA damage response pathway impairment and reinstatement in a model of VHL loss**

[Paul Essers](#), Tim Klasson, Tamara Pereboom, Rachel Giles, Alyson MacInnes

### CS10-05 **Rapid in vivo screening for cell migration inhibitors**

[Viviana Gallardo](#), Gaurav Varshney, Miguel Allende, Shawn Burgess

### CS10-06 **Live imaging of tumour initiation and innate immune cell interaction in zebrafish larvae**

Yi Feng

## Concurrent session 11 · Toxicology and drug screening

Friday · 11.00am - 12.30pm · Room F

CHAIR: Uwe Strähle

### CS11-01 **Fishing for new drugs: whole-organism screening for gluconeogenesis modulators**

Philipp Gut, Bernat Baeza-Raja, Olov Andersson, Laura Hasenkamp, Joseph Hsiao, Daniel Hesselson, Katerina Akassoglou, Eric Verdin, Matthew Hirsche, Didier Stainier

### CS11-02 **Chemical suppressor screen for factor that alters transcriptional pausing in melanocytes and melanoma cells**

Cristina Santoriello, Bilguujin Dorjsuren, Isaac Adatto, Leonard Zon

### CS11-03 **Chemical screens in zebrafish identify novel inhibitors of retinal neovascularisation in mouse**

Breandan Kennedy, Yolanda Alvarez, Tosoletto Miriam, Kilty Claire, Temitope Sasore, Carmel McVicar, Alan Stitt, Adrian Murphy, Jacintha O'Sullivan, Alison Reynolds

### CS11-04 **The application of in-situ hybridisation in zebrafish (Danio rerio) to identify target tissues and effect mechanisms of silver nanoparticles**

Olivia Joanna Osborne, Katsuki Mukaigasa, Hitomi Nakajima, Makoto Kobayashi, Bjorn Stolpe, Isabella Romer, Jamie Lead, Tetsuhiro Kudoh, Charles Tyler

### CS11-05 **Zebrafish vascular development: An integrative system for predictive toxicology and in silico modeling**

Tamara Tal, Nicole Kleinstreuer, Stephanie Padilla, Knudsen Thomas

### CS11-06 **The environmental obesogen tributyltin chloride acts through RXR and LXR but not PPARgamma/delta isoforms to induce adipocyte hypertrophy in live zebrafish**

Nafia Ouadah-Boussouf, Patrick J. Babin

## Concurrent session 12 · Cilia and cell poetry

Friday · 11.00am - 12.30pm · Room J

CHAIR: Sylvie Schneider-Maunoury

### CS12-01 **A dual function of the zebrafish ESCRT complex in the formation and function of ciliated organs**

Morgane Poulain, Sophie Poles, Maximilian Fürthauer

### CS12-02 **Sept7b is essential for ciliogenesis and regulates pronephric function and left-right asymmetry in zebrafish**

Surjya Narayan Dash, Eero Lehtonen, Anita A Wasik, Antonino Schepis, Pertti Panula, W. James Nelson, Sanna Lehtonen

### CS12-03 **Role of MARVEL proteins in epithelial morphogenesis**

Alejo Rodriguez-Fraticelli, Jennifer Bagwell, Michel Bagnat, Fernando Martin-Belmonte

### CS12-04 **NINL and DZANK1 cooperate in assembling the cytoplasmic dynein 1 motor complex, a process essential for photoreceptor outer segment formation in zebrafish**

Margo Dona, Lissette Hetterschijt, Edith Tonnaer, Theo Peters, Sylvia van Beersum, Judith Bergboer, Jeroen van Reeuwijk, Yves Texier, Karsten Boldt, Marius Ueffing, Ronald Roepman, Hannie Kremer, Erwin van Wijk

### CS12-05 **Rapid photoreceptor degeneration occurs in zebrafish arl13b mutants following suppression of PCP signaling**

Brian Perkins

### CS12-06 **Dishevelled stabilization at the cilium by RPGRIP1L is essential for planar cell polarity**

Alexia Mahuzier, Helori-Mael Gaudé, Isabelle Anselme, Flora Silbermann, Sophie Saunier, Christine Vesque, Sylvie Schneider-Maunoury

## Concurrent session 13 · Skeletomuscular and craniofacial development

Friday · 3.00 - 5.00pm · Auditorium

CHAIR: Thomas Schilling

### CS13-01 **Finite element analysis reveals that the regions of a zebrafish jaw under maximal strain correspond to regions of high Wnt signalling**

Lucy Brunt, Kate Binley, Yaniv Hinits, Emily Rayfield, Chrissy Hammond

### CS13-02 **Regulation of endodermal endothelin-1 by grhl3 is critical for the development of the vertebrate craniofacial skeleton**

Sebastian Dworkin, Charbel Darido, Darren Partridge, Smitha Georgy, Tomasz Wilanowski, Graham Lieschke, Joan Heath, Stephen Jane

### CS13-03 **Stac3 is a novel member of the excitation-contraction complex in zebrafish**

Jeremy Linsley, Eric Horstick, Hiromi Hirata, Clara Franzini-Armstrong, John Kuwada

### CS13-04 **Knockdown of col22a1 gene in zebrafish induces a muscular dystrophy by disruption of the myotendinous junction**

Alexandre Guiraud, Benjamin Charvet, Marilyne Malbouyres, Daniela Zwolanek, Emilie Guillon, Sandrine Bretaud, Jörg Schulze, Bruno Allard, Manuel Koch, Florence Ruggiero

### CS13-05 **MicroRNA-92a upholds Bmp signaling by targeting noggin3 during pharyngeal cartilage formation**

Qiang Wang, Guozhu Ning, Xiuli Liu, Miaomiao Dai, Anming Meng

### CS13-06 **On the roles and regulation of chondroitin sulfate and heparan sulfate in zebrafish pharyngeal cartilage morphogenesis**

Katarina Holmborn, Judith Habicher, Zsolt Kasza, Anna S. Eriksson, Beata Filipek-Gorniok, Sandeep Gopal, John R. Couchman, Per E. Ahlberg, Malgorzata Wieweger, Dorothe Spillmann, Johan Kreuger, Johan Ledin

### CS13-07 **What's behind the screen: using zebrafish to identify and characterize ethanol-sensitive genetic loci**

Johann Eberhart, Mary Swartz, Charles Lovely, Neil McCarthy, Patrick McGurk, Michael Well, Melissa Griffin, Jenna Rozacky

### CS13-08 **The Zebrafish Marathon: exploring the effects of swim-training on zebrafish larval development**

Ansa Fiaz, Karen Léon-Kloosterziel, Gerrit Gort, Stefan Schulte-Merker, Sander Kranenbarg, Johan van Leeuwen

## Concurrent session 14 - Circuits and behavior

Friday - 3.00 - 5.00pm - Room F

CHAIR: Suresh Jesuthasan

### CS14-01 Spontaneous activity in the zebrafish larval tectae

[Thomas Pietri](#), [Sebastián Romano](#), [German Sumbre](#)

### CS14-02 Development and function of the Otp-dependent A11-type dopaminergic system

[Wolfgang Driever](#), [Antonio Fernandes](#), [Aristides Arrenberg](#), [Sebastian Reinig](#), [Heiko Loehr](#), [Joern Schweitzer](#)

### CS14-03 Non-invasive in vivo mapping of cerebellar Purkinje cell connectivity by trans-synaptic tracers, physiological analysis and optogenetic functional modulation

[Hideaki Matsui](#), [Kazuhiko Namikawa](#), [Mario Wullimann](#), [Andreas Babaryka](#), [Reinhard Koester](#)

### CS14-04 Multi-stepped optogenetics: infrared laser mediated local expression of ChR2 to visualize neural circuits involved in animal behaviors in zebrafish larvae

[Mariko Itoh](#), [Kohei Hatta](#)

### CS14-05 Stress alters stimulus responsiveness in larval zebrafish

[Rodrigo De Marco](#), [Antonia Groeneberg](#), [Luis Castillo-Ramírez](#), [Chen-Min Yeh](#), [Soojin Ryu](#)

### CS14-06 Axonal retrograde transport and its role in establishment of a retinotectal neural circuit

[Thomas Oliver Auer](#), [Karine Duroure](#), [Jochen Wittbrodt](#), [Filippo Del Bene](#)

### CS14-07 Dopaminergic gating of visual flow to auditory escape circuit via inhibition

[Yuan-yan Yao](#), [Xiao-quan Li](#), [Jiu-lin Du](#)

### CS14-08 High speed imaging of sensory-stimuli evoked neural activity in the habenula

[Suresh Jesuthasan](#), [Seetha Krishnan](#), [Ruey-Kuang Cheng](#), [Qian Lin](#)

## Concurrent session 15 - RNA world

Friday - 3.00 - 5.00pm - Room J

CHAIR: Derek Stemple

### CS15-01 Study of miRNA roles in retinal axon specification and growth

[Sabrina Carrella](#), [Ylenia D'Agostino](#), [Sara Barbato](#), [Francesco Giuseppe Salierno](#), [Stephan Neuhaus](#), [Sandro Banfi](#), [Ivan Conte](#)

### CS15-02 Mir-204 as a 'key regulator' of vertebrate eye development and function

[Ivan Conte](#), [Sabrina Carrella](#), [Sara Barbato](#), [Raffaella Avellino](#), [Francesco Giuseppe Salierno](#), [Ylenia D'Agostino](#), [Sandro Banfi](#)

### CS15-03 Transcriptome dynamics around zebrafish zygotic genome activation

[Håvard Aanes](#), [Olga Ostrup](#), [Cecilia Winata](#), [Leonardo Martin](#), [Amilcar Arenal](#), [Igor Babiak](#), [Sinnakaruppan Mathavan](#), [Philippe Collas](#), [Peter Aleström](#)

### CS15-04 Characterization of mRNA decay during the maternal-to-zygotic transition

[Carter Takacs](#), [Valeria Yartseva](#), [Miler Lee](#), [Minsun Jeong](#), [Ariel Bazzini](#), [Huiling Xue](#), [Antonio Giraldez](#)

### CS15-05 DEAH-box RNA helicase Dhx37 plays an essential role in the biogenesis of GlyR $\alpha$ subunit mRNAs and is indispensable for normal escape behavior

[Hiromi Hirata](#), [Kazutoyo Ogino](#), [Kenta Yamada](#), [Sophie Leacock](#), [Robert Harvey](#)

### CS15-06 lincRNA cyano hijacks miRNA/Argonaute complex for a non-canonical function indispensable to early development

[Alena Shkumatava](#)

### CS15-07 A highly expressed zebrafish tRNA derived fragment with microRNA-like features

[Ana Soares](#), [Noémia Fernandes](#), [Marisa Reverendo](#), [Manuel Santos](#)

### CS15-08 Transcript counting as a molecular phenotyping tool

[Derek L. Stemple](#), [John Collin](#), [Ian Sealy](#), [Neha Wali](#), [Richard J. White](#), [Samantha Carruthers](#), [Christopher M. Dooley](#), [Catherine Scahill](#), [Selina Mehroke](#), [James Morris](#), [Jeffrey Barrett](#), [Elisabeth M. Busch-Nentwich](#)

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Saturday 13 July

## Plenary session 06 - Disease models

Saturday - 9.00 - 10.30am - Auditorium

CHAIR: Leonard Zon

### PL06-01 TigarB causes mitochondrial dysfunction and neuronal loss in PINK1 deficiency in a zebrafish model of early onset Parkinson's Disease

[Oliver Bandmann](#), [Laura Flinn](#), [Marcus Keatinge](#), [Heather Mortiboys](#), [Hideaki Matsui](#), [Elena De Felice](#), [Reinhard Koester](#), [Phil Ingham](#)

### PL06-02 Premature aging in telomerase-deficient zebrafish

[Francisca Alcaraz-Pérez](#), [Monique Anachelin](#), [Carlos M. Martinez](#), [Manuel Bernabé-García](#), [Victoriano Mulero](#), [María L. Cayuela](#)

### PL06-03 Loss of function analysis of TDP-43 associated with amyotrophic lateral sclerosis and frontotemporal lobar degeneration

[Bettina Schmid](#), [Alexander Hruscha](#), [Laura Hasenkamp](#), [Katrin Strecker](#), [Christian Haass](#)

### PL06-04 Functional characterisation of novel regulators of haematopoiesis: from GWAS to function

[Ewa Bielczyk-Maczynska](#), [Nicole Soranzo](#), [Willem H. Ouwehand](#), [Ana Cvejic](#)

### PL06-05 Identification of a novel tumor-suppressor function exerted by Von Hippel Lindau-like genes in zebrafish

[Kirankumar Santhakumar](#), [David Greenald](#), [Ellen van Rooijen](#), [Oliver Watson](#), [Tim Chico](#), [Steve Renshaw](#), [Sinnakaruppan Mathavan](#), [Freek van Eeden](#)

### PL06-06 Developing Therapeutics Using The Zebrafish

[Leonard I. Zon](#)

## Participants 8<sup>th</sup> European Zebrafish Meeting

Apellido	Nombre	Institución	País
Aanes	Håvard	NVH	Norway
Abalo	Xesús	University of Uppsala	Sweden
Abramsson	Alexandra	Neuroscience and physiology	Sweden
Adams	Michelle	Bilkent University	Turkey
Adrião	Andreia	University of Algarve	Portugal
Afthinos	Maresa	University Hospital Zurich	Switzerland
Aho	Vilma	University of Helsinki	Finland
Al-afandi	Abdulrahman	University of Leiden	Netherlands
Al-ars	Zaid	Delft University of Technology	Netherlands
Albadri	Shahad	Centre for Organismal Studies	Germany
Alcaraz-Pérez	Francisca	HUVA-IMIB	Spain
Alestrom	Peter	NVH	Norway
Alexandre	Paula	UCL Institute of Child Health	United Kingdom
Alghisi	Elisa	University of Brescia	Italy
Allende	Miguel	Universidad de Chile	Chile
Almeida	Rafael	University of Edinburgh	United Kingdom
Almeida	Xana	University of Cambridge	United Kingdom
Alsina	Berta	UPF	Spain
Alsomali	Nimah	Medical School	United Kingdom
Alvarez	Marjorie	University of Chile	Chile
Alvarez Ochoa	Marco Antonio	-	Spain
Alzualde	Ainhoa	BBD BioPhenix S.L.	Spain
Anagianni	Sofia	BRFAA	Greece
Anbalagan	Savani	Weizmann Institute of Science	Israel
Andersson	Olov	Karolinska Institutet	Sweden
Andersson Lendahl	Monika	Karolinska Institutet	Sweden
Andrews	Clare	University of Edinburgh	United Kingdom
Antonio	Nicole	University of Bristol	United Kingdom
Antos	Christopher	Technische Universität Dresden	Germany
Aribas	Gökhan	Syntecnos	Netherlands
Anza Cosano	Ana	Centro Andaluz de Biología del Desarrollo-CABD	Spain
Arjona Madueño	Francisco Jesús	Radboud University Nijmegen Medical Centre	Netherlands
Armesto	Paula	IFAPA	Spain
Armstrong	Gary	Université de Montréal	Canada
Aroca Aguilar	Jose Daniel	University of Castilla-La Mancha	Spain
Arslan-Ergul	Ayca	Bilkent University	Turkey
Arulmozhivarman	Guruchandar	TU Dresden	Germany
Asakawa	Kazuhide	National Institute of Genetics	Japan
Asokan	Nandini	TU Dresden	Germany
Astin	Jonathan	The University of Auckland	New Zealand
Astone	Matteo	University of Padova	Italy
Auer	Thomas	Institut Curie	France
Auger	Katherine	Wellcome Trust Sanger Institute	United Kingdom
Azuaje	Francisco	CRP SANTE	Luxembourg
Azuma	Mizuki	University of Kansas	USA
Bosze	Bernadett	Karlsruhe Institute of Technology	Germany
Babin	Patrick J.	University of Bordeaux	France
Bakkers	Jeroen	Hubrecht Institute	Netherlands
Balciunas	Darius	Temple University	USA
Balciuniene	Jorune	Temple University	USA
Bally-Cuif	Laure	CNRS	France
Bandmann	Oliver	University of Sheffield	United Kingdom
Baptista	Julia	Policlinico S.Orsola Malpighi	Italy
Barber	Amelia	University of Utah	USA
Barrallo Gimeno	Alejandro	Universitat de Barcelona	Spain
Barriga	Eliás	Universidad Andrés Bello	Chile
Bartolini	Laura	Max-Delbrück-Center for Molecular Medicine (MDC)	Germany
Bartunek	Petr	Institute of Molecular Genetics	Czech Republic



Apellido	Nombre	Institución	País
Bassi	Andrea	Politecnico di Milano	Italy
Baumgardt	Magnus	Karolinska Institutet	Sweden
Baxendale	Sarah	University of Sheffield	United Kingdom
Bazzini	Ariel	Yale University	USA
Beaudoin	Jean-denis	Yale University	USA
Becker	Catherina	Edinburgh	United Kingdom
Becker	Thomas	University of Edinburgh	United Kingdom
Béhra	Martine	UPR-School of Medicine	USA
Beis	Dimitris	Biomedical Research Foundation Academy of Athens	Greece
Beker Van Woudenberg	Anna	TNO	Netherlands
Bellesso	Stefania	University of Padova	Italy
Beltrame	Monica	Universita' degli Studi di Milano	Italy
Benato	Francesca	University of Padova	Italy
Benitez Santana	Tibiabin	CNRS	France
Bensimon-Brito	Anabela	New University of Lisbon	Portugal
Benrop	Joachim	Karlsruhe Institute of Technology	Germany
Bergen	Dylan	University of Bristol	United Kingdom
Berger	Joachim	ARMI, EMBL Australia	Australia
Berger	Ina	University Hospital Ulm	Germany
Bertolini	Giovanni	University Hospital Zurich	Switzerland
Bertrand	Julien	University of Geneva - CMU	Switzerland
Bessa	Jose	CABD-Centro Andaluz de Biología del Desarrollo	Spain
Bhatia	Shipra	University of Edinburgh	United Kingdom
Bielczyk-Maczynska	Ewa	University of Cambridge	United Kingdom
Bielen	Holger	King's College	United Kingdom
Blader	Patrick	Centre de Biologie du Développement	France
Blanco-Sánchez	Bernardo	University of Oregon	USA
Blum	Nicola	University of Bayreuth	Germany
Boer	Elena	University of Utah Huntsman Cancer Institute	USA
Bogo	Maurício	PUCRS	Brazil
Boije	Henrik	University of Cambridge	United Kingdom
Boissel	Sarah	Université de Montréal	Canada
Boix Sabria	Nuria	GRET-CERETOX, Universitat de Barcelona	Spain
Bonneau	Ashley	Yale University	USA
Bonnet	Aline	ENS, INSERM, CNRS	France
Borga	Chiara	University of Padua	Italy
Borges	Ana	Centro de Estudos de Doenças Crónicas	Portugal
Bourguine	Paul	CNRS	France
Bovolenta	Paola	CBMSO, CSIC-UAM	Spain
Boyer	Karene	CBD	France
Bozic	Zoran	indulab ag	Switzerland
Braasch	Ingo	University of Oregon	USA
Bradford	Yvonne	Zebrafish Model Organism Database (ZFIN)	USA
Bradsher	John	UPR-School of Medicine	USA
Brand	Michael	Technische Universität Dresden	Germany
Breau	Marie	Université Pierre et Marie Curie	France
Brennan	Caroline	Queen Mary, University of London	United Kingdom
Brenner	Sydney	Salk Institute	USA
Bresolin De Souza	Karine	University of Gothenburg	Sweden
Bretau	Sandrine	Institut de Génomique Fonctionnelle de Lyon	France
Brock	Alistair	Queen Mary, University of London	United Kingdom
Brockhoff	Susan	University of Washington	USA
Brombin	Alessandro	CNRS	France
Brondolin	Mirco	University of Bonn - LIMES Institute	Germany
Brunt	Lucy	University of Bristol	United Kingdom
Bu	Ye	Peking University	China
Buenafe	Olivia Erin	KU Leuven	Belgium
Bührdel	John Bertrand	University Hospital Ulm	Germany
Burger	Alexa	University of Zurich	Switzerland
Burgess	Shawn	NHGRI/NIH	USA

Apellido	Nombre	Institución	Pais
Busch-Nentwich	Elisabeth	Wellcome Trust	United Kingdom
Butko	Emerald	UC San Diego	USA
Candelier	Raphaël	CNRS - UPMC	France
Cañas Perea	Xavier	PARC CIENTIFIC DE BARCELONA	Spain
Cañestro	Cristian	Universitat de Barcelona	Spain
Cardozo Ruiz	Marcos Julián	Centro de Biología Molecular Severo Ochoa	Spain
Carl	Matthias	University Heidelberg	Germany
Carl	Eva	University of Freiburg	Germany
Camey	Tom	Institute of Molecular and Cell Biology	Singapore
Carra	Silvia	Università degli Studi di Milano	Italy
Carrella	Sabrina	fondazione telethon	Italy
Carruthers	Samantha	Wellcome Trust Sanger Institute	United Kingdom
Castanon	Irinka	University of Geneva	Switzerland
Cayuso	Jordi	MRC-NIMR	United Kingdom
Cenijn	Peter	VU University Amsterdam	Netherlands
Cerda	Joan	IRTA	Spain
Certal	Catarina	Fundacao Champalimaud	Portugal
Chang	Carolyn	Saint Mary's University	Canada
Charlet	Anne	Universitätsherzzentrum Freiburg Bad Krozingen	Germany
Chen	Chien-cheng	university hospital zurich	Switzerland
Chen	Jie-shin	National Taiwan University	Taiwan
Chen	Yi-chun	Institute of Cellular and Organismic Biology	Taiwan
Chen	James	Stanford University School of Medicine	USA
Cheng	Wai Chun	University of Hong Kong	China
Cheng	Keith	Penn State College of Medicine	USA
Cherng	Bor-wei	National Taiwan University	Taiwan
Chiavacci	Elena	Consiglio nazionale delle ricerche	Italy
Chitramuthu	Babykumari	McGill University	Canada
Chopra	Kunal	University of Sheffield	United Kingdom
Chow	Renee Wei-yan	University of Cambridge, UK	United Kingdom
Cifuentes Buirra	Daniel	Yale University	USA
Clark	Richard	Wellcome Trust Sanger Institute	United Kingdom
Clements	Wilson	St Jude Children's Research Hospital	USA
Colletti	Elisa	University of Padova	Italy
Colombo	Sophie	Columbia University Medical Center	USA
Colon-Cruz	Luis	UPR-School of Medicine	USA
Conte	Ivan	fondazione telethon	Italy
Corallo	Diana	PhD student	Italy
Corti	Paola	University of Pittsburgh	USA
Costa	Roberto	University of Padova	Italy
Costagliola	Sabine	ULB	Belgium
Cotelli	Franco	Università degli Studi di Milano	Italy
Couso	Juan Pablo	-	Brazil
Crim	Marcus	IDEXX RADIL	USA
Cruz	Carlos	University of Sheffield	United Kingdom
Cruz-Garcia	Lourdes	University of Utah	USA
Cunliffe	Vincent	University of Sheffield	United Kingdom
Cvejic	Ana	University of Cambridge	United Kingdom
Dalla Valle	Luisa	University of Padova	Italy
Dash	Surjya Narayan	HAARTMAN INSTITUTE	Finland
David	Nicolas	IBENS - INSERM - CNRS	France
Davidson	Ann	University of Michigan	USA
Davies	Nick	University Of Edinburgh	United Kingdom
De Brouwer	Sara	Center for Medical Genetics	Belgium
De Croze	Noemie	INRA	France
De Jong	Jill	University of Chicago	USA
De Marco	Rodrigo	Max Planck Institute for Medical Research	Germany
De Sonneville	Jan	Life Science Methods BV	Netherlands
De Vrieze	Erik	Radboud University Nijmegen Medical Centre	Netherlands
De Witte	Peter	University of Leuven	Belgium

Apellido	Nombre	Institución	País
Dean	Benjamin	vanderbilt university	USA
Dekeyne	Anne	Institut de recherches Servier	France
Del Bene	Filippo	INSTITUT CURIE UMR3215 - U934	France
Delous	Marion	MPI	Germany
Den Broeder	Marjo	IVM	Netherlands
Den Hoed	Marcel	Uppsala University	Sweden
Denovan-Wright	Eileen	Dalhousie University	Canada
Desai	Ravi	University College London	United Kingdom
Devoto	Stephen	Wesleyan University	USA
Dhillon	Paraminder	Disease Models & Mechanisms	United Kingdom
Di Donato	Vincenzo	INSTITUT CURIE UMR3215-U934	France
Di Giaimo	Rossella	Heimholtz Zentrum Munich	Germany
Dias	Jorge	CCMAR	Portugal
Díaz Casado	Elena	Universidad de Granada, Instituto de biotecnología	Spain
Dickmeis	Thomas	Karlsruhe Institute of Technology	Germany
Divito	Kate	Yale University	USA
Djian-Zaouche	Johanna	CNRS	France
Dogra	Deepika	Max Planck Institute for Heart and Lung Research	Germany
Doldur Balli	Fusun	Bilkent University	Turkey
Domingo Moreno	Beatriz	Universidad de Castilla-La Mancha	Spain
Dona	Margo	Radboud University Nijmegen Medical Centre	Netherlands
Donaldson	Sarah	WELLCOME TRUST SANGER INSTITUTE	United Kingdom
Donat	Stefan	Max Delbrück Center for Molecular Medicine	Germany
Dooley	Christopher	Wellcome Trust Sanger Insitute	United Kingdom
Dos Santos	Ines	CNIC	Spain
Dosch	Roland	Georg-August-Universitaet Goettingen	Germany
Drabsch	Yvette	Leiden University Medical Center	Netherlands
Driessen	Marja	National Institute of Public Health	Netherlands
Driever	Wolfgang	University of Freiburg	Germany
Du	Jiu-lin	Chinese Academy of Sciences	China
Duan	Cunming	University of Michigan	USA
Duboc	Veronique	MRC-National Institute for Medical Research	United Kingdom
Duboue	Erik	Carnegie Institution	USA
Duboule	Denis	EPFL SV ISREC UPDUB University of Geneva	Switzerland
Dufourcq	Pascale	Centre de Biologie du Développement	France
Dworkin	Sebastian	Monash University	Australia
Dyballa	Sylvia	Universitat Pompeu Fabra	Spain
Eberhart	Johann	University of Texas at Austin	USA
Edouard	Joanne	CNRS	France
Eichenlaub	Michael	Heidelberg University	Germany
Eimon	Peter	MIT	USA
Ek	Olivier	University of Padua	Italy
Emilsson	Lina	Uppsala University	Sweden
Engel	Felix	University Hospital Erlangen	Germany
Engert	Florian	-	France
Epting	Daniel	Uniklinikum Freiburg	Germany
Ernest	Sylvain	Ecole Normale Superieure	France
Esguerra	Camila	University of Leuven	Belgium
Essers	Paul	Hubrecht Institute for Developmental Biology	Netherlands
Estévez Povedano	Raúl	Universitat de Barcelona	Spain
Eve	Alexander	MRC National Institute for Medical Research	United Kingdom
Fadeev	Andrey	Max Planck Institute for Developmental Biology	Germany
Fargas	Laura	Universitat Pompeu Fabra	Spain
Fei	Zhonghui	University of Toronto	Canada
Felker	Anastasia	University of Zurich	Switzerland
Feng	Yi	University of Edinburgh	United Kingdom
Fernandes	Noémia	Universidade de Aveiro	Portugal
Fernandez	Juan	Yale School of Medicine	USA
Fernandez	Joseph	Yale University	USA
Fernández	Ignacio	Centre of Marine Sciences (CCMAR)	Portugal

Apellido	Nombre	Institución	País
Fernández Riesco	Marta	UNIVERSITY OF LEON	Spain
Fiaz	Ansa	Wageningen University	Netherlands
Filipek-gorniok	Beata	Uppsala university	Sweden
Fischer	Ruth	Max F. Perutz Laboratories / University of Vienna	Austria
Fisher	Shannon	University of Pennsylvania	USA
Fleming	Angeleen	University of Cambridge	United Kingdom
Fleming	Elizabeth	Yale University	USA
Foglia	Efrem Alessandro	Università degli Studi di Milano	Italy
Folkertsma	Simon	TNO	Netherlands
Follo	Carlo	Università del Piemonte Orientale	Italy
Fontenas	Laura	inserm	France
Fontenille	Laura	Université montpellier II	France
Forn Cuni	Gabriel	Instituto e Investigaciones Marinas - CSIC	Spain
Fraher	Daniel	Deakin School of Medicine	Australia
Franz-Odendaal	Tamara	Mount Saint Vincent Univeristy	Canada
Frassine	Andrea	università degli studi di milano	Italy
Fujita	Misato	Toyo University	Japan
Furthauer	Max	CNRS IBV UMR7277	France
Gago-Rodrigues	Ines	CABD	Spain
Galaridi-Castilla	Maria	ZFBIolabs S.L	Spain
Galceran	Juan	Instituto de Neurociencias	Spain
Gallardo	Viviana	NHGRI/NIH	USA
Galvez Santisteban	Manuel Angel	Centro de Biología Molecular 'Severo Ochoa'	Spain
Ganz	Julia	University of Oregon	USA
Garcia	Adrian	Institute of Neuroscience of Castilla y León	Spain
Garcia Romero	Maria Montserrat	The University of Sheffield	United Kingdom
García Valcarce	David	INDEGSAL - University of León	Spain
Garrity	Deborah	Colorado State University	USA
Gärtner	Linda	University Hospital Ulm	Germany
Gauron	Carole	CIRB - Collège de France	France
Gavaia	Paulo	Centro of Marine Sciences - CCMAR	Portugal
Gays	Dafne	Molecular Biotechnology Center	Italy
Ge	Wei	The Chinese University of Hong Kong	China
Gebhardt	Christoph	INSTITUT CURIE UMR 3215 - U934	France
Geisler	Robert	Max Planck Institut für Entwicklungsbiologie Abteilung III	Germany
Georga	Ioanna	University of Patras	Greece
Gerety	Sebastian	Wellcome Trust Sanger Institute	United Kingdom
Gering	Martin	University of Nottingham	United Kingdom
Gerri	Claudia	Max Planck Institute for Heart and Lung Research	Germany
Geyer	Simone	Karlsruhe Institute of Technology (KIT)	Germany
Ghaye	Aurélie	GIGA-R-B34	Belgium
Gibbs-bar	Liron	Weizmann Institutir for Science	Israel
Gibert	Yann	Deakin School of Medicine	Australia
Gilardi-Hebenstreit	Pascale	IBENS, U1024 INSERM, UMR8197 CNRS	France
Giraldez	Antonio	Yale University	USA
Gistelink	Charlotte	Center for Medical Genetics Ghent (CMGG)	Belgium
Glasauer	Stella	University of Zurich	Switzerland
Glenn	Nikki	St. Jude Children's Research Hospital	USA
Gomez	Gustavo	UCLA	USA
Gomez Marin	Carlos	Centro Andaluz Biología del Desarrollo	Spain
Gómez Skameta	José Luis	Centro Andaluz de Biología del Desarrollo	Spain
Gong	Zhiyuan	National University of Singapore	Singapore
Gonzalez-Núñez	Veronica	University of Salamanca	Spain
Goodwin	Nicola	Wellcome Trust Sanger Institute	United Kingdom
Goodyear	Richard	University of Sussex	United Kingdom
Gorustovich	Alejandro	National Research Council (CONICET)	Argentina
Gothliff	Yoav	Tel Aviv University	Israel
Götz	Rudolf	indulab ag	Switzerland
Grassme	Kathrin	University of Muenster	Germany
Grealy	Maura	NUI Galway	Ireland

Apellido	Nombre	Institución	País
Griffin	Aliesha	University of Birmingham	United Kingdom
Grinblat	Yevgenya	University of Wisconsin	USA
Grivas	Dimitrios	CNIC	Spain
Groff	Megan	Children's Hospital Los Angeles	USA
Groneberg	Antonia	Max-Planck-Institute for medical research	Germany
Gu	Shan-ye	Chinese Academy of Sciences	China
Guerra	Jorge	Universidad de Santiago de Compostela	Spain
Guillon	Emilie	ENS de Lyon-CNRS UMR5242	France
Guiraud	Alexandre	CNRS UMR5242 - ENS de Lyon	France
Gupta	Puja	University of Bergen	Norway
Gupta	Mansi	DFG - Centre for Regenerative Therapies Dresden	Germany
Gut	Philipp	UCSF	USA
Gutierrez-Triana	Jose Arturo	Max Planck Institute for Medical Research	Germany
Gutiérrez-Vallejo	Irene	IBMB-CSIC	Spain
Habicher	Judith	Uppsala University	Sweden
Hakkesteeg	Jenna	University College London	United Kingdom
Hall	Chris	The University of Auckland	New Zealand
Hall	Amanda	Wellcome Trust Sanger Institute	United Kingdom
Hamm	Mailin	MPI for Molecular Biomedicine	Germany
Han	Ying	Chinese Academy of Medical Sciences	China
Han	Mitchell	Hubrecht Institute	Netherlands
Hand	Simon	University of Sheffield	United Kingdom
Hans	Stefan	TU-Dresden	Germany
Haramis	Anna-pavlina	Institute of Biology, Leiden University	Netherlands
Hartwell	Ryan David	University of Sheffield	United Kingdom
Harvey	Steve	The Wellcome Trust Sanger Institute	United Kingdom
Hasegawa	Tomoya	Tokyo Institute of Technology	Japan
Hatta	Kohei	University of Hyogo	Japan
Hawkins	Thomas	UCL	United Kingdom
He	Shuning	Dana-Farber Cancer Institute	USA
Heanue	Tiffany	MRC - National Institute for Medical Research	United Kingdom
Heath	Joan	Walter and Eliza Hall Institute	Australia
Heckel	Emilie	IGBMC	France
Heeren-Hagemann	Anja	Karlsruhe Institute of Technology (KIT)	Germany
Heisenberg	Carl-philipp	Institute of Science and Technology	Austria
Helker	Christian	University of Münster	Germany
Henry	Katherine	University of Sheffield	United Kingdom
Her	Guor Mour	National Taiwan Ocean University	Taiwan
Herbert	Shane	The University of Manchester	United Kingdom
Hernandez	Lydia	UC San Diego	USA
Hernandez Vega	Amayra	IBMB CSIC	Spain
Herzog	Wiebke	University of Muenster	Germany
Hess	Christopher	University of Zurich	Switzerland
Heuzé	Aurélié	CNRS	France
Hill	Caroline	Cancer Research UK London Research Institute	United Kingdom
Hirata	Hiromi	National Institute of Genetics	Japan
Hirth	Sofia	University Hospital Ulm	Germany
Hisano	Yu	RIKEN	Japan
Hochmann	Sarah	-	Austria
Hoffman	Ellen	Yale University	USA
Hojjman	Esteban	Universitat Pompeu Fabra	Spain
Holmborn Garpenstrand	Katarina	Uppsala university	Sweden
Holmgren	Lars	Karolinska Institutet	Sweden
Holthaus	Lisa	NIMR	United Kingdom
Hoodless	Laura	University of Edinburgh	United Kingdom
Hong	Jiun-lin	Taipei Medical University	Taiwan
Houart	Corinne	King's College London	United Kingdom
Howe	Kerstin	Wellcome Trust Sanger Institute	United Kingdom
Hruscha	Alexander	DZNE Munich	Germany
Hsiao	Yu Chuan	National Taiwan University	Taiwan

Apellido	Nombre	Institución	País
Hu	Chin-hwa	Nastional Taiwan Ocean University	Taiwan
Huang	Cheng	McDaniel College	USA
Huber-Reggi	Sabina	University of Zurich	Switzerland
Huisken	Jan	Max Planck Institute	Germany
Hung	Laure	WELLCOME TRUST SANGER INSTITUTE	United Kingdom
Huttenlocher	Anna	University of Wisconsin-Madison	USA
Hwang	Sheng-ping	Academia Sinica	Taiwan
Hyde	David	University of Notre Dame	USA
Inoue	Shinya	Osaka University	Japan
Irion	Uwe	Max-Planck Institute for Developmental Biology	Germany
Jacinto	Antonio	CEDOC	Portugal
Jamen	Françoise	CNRS	France
Janssens	Els	University of Ghent	Belgium
Jarrin	Miguel	Durham University	United Kingdom
Jaworski	Jacek	International Institute of Molecular and Cell Biology	Poland
Jean	Francesca	University of Alberta	Canada
Jeong	Minsun	Yale University	USA
Jesuthasan	Suresh	A*Star/Duke-NUS Neuroscience Research Partnership	Singapore
Jimenez	Laura	University of Utah Huntsman Cancer Institute	USA
Jiménez	Ada	Institute of Neuroscience of Castilla y León	Spain
Johnstone	Timothy	Yale University	USA
Joly	Jean-stéphane	CNRS	France
Jungke	Peggy	DFG-Center for Regenerative Therapies Dresden	Germany
Jurisch-Yaksi	Nathalie	VIB	Belgium
Jusuf	Patricia	Monash University	Australia
Kamminga	Leonie	Nijmegen Centre for Molecular Life Sciences	Netherlands
Kanagaraj	Palsamy	GZMB, University of Goettingen	Germany
Kapsimali	Marika	IBENS	France
Karetsou	Zoe	UNIVERSITY OF IOANNINA	Greece
Karlsson	Karl	Reykjavik University	Iceland
Kastenhuber	Edda	University of Zurich	Switzerland
Kawahara	Atsuo	Riken Quantitative Biology Center	Japan
Kawakami	Koichi	National Institute of Genetics	Japan
Keatinge	Marcus	University of Sheffield	United Kingdom
Kefalos	Panagiotis	Biomedical Research Foundation Academy of Athens	Greece
Kelley	Clair	St. Jude Children's Research Hospital	USA
Kelsh	Robert	University of Bath	United Kingdom
Ken	Chuan-fu	Institute of Biotechnology	Taiwan
Kennedy	Breandan	University College Dublin	Ireland
Kepiro	Miklos	Eotvos Lorand University	Hungary
Kergosien	Yannick	-	France
Kettleborough	Ross	WTSI	United Kingdom
Khuansuwan	Sataree	Vanderbilt University	USA
Kilty	Claire	University College Dublin	Ireland
Kim	Taeryn	The Rockefeller University	USA
Kimmel	Robin	University of Innsbruck	Austria
Kimura	Tetsuaki	National Institute for Basic Biology	Japan
Kirchmaier	Stephan	Heidelberg University	Germany
Kishida	Marcia	Cambridge University	United Kingdom
Kitano	Masahiro	University of Southern California	USA
Knopf	Franziska	Dresden University of Technology	Germany
Koch	Bjørn	Aarhus University	Denmark
Koester	Reinhard	TU Braunschweig	Germany
Koltowska	Kaska	Institute for Molecular Bioscience	Australia
Konu	Özlen	-	Turkey
Kopp	Renate	VU University Amsterdam	Netherlands
Korzh	Vladimir	Institute of Molecular and Cell Biology	Singapore
Kotapati Raghupathy	Rakesh	Glasgow Caledonian University	United Kingdom
Kotb	Ahmed	Anatomy and cell biology	Germany
Kroll	Jens	Heidelberg University	Germany

Apellido	Nombre	Institución	País
Krone	Nils	University of Birmingham	United Kingdom
Kuan	Yung-shu	National Taiwan University	Taiwan
Kurrasch	Deborah	University of Calgary	Canada
Kuznicki	Jacek	International Institute of Molecular and Cell Biology	Poland
Kwon	Ronald	University of Washington	USA
Lagman	David	Uppsala University	Sweden
Lahne	Manuela	University of Notre Dame	USA
Laize	Vincent	Centre of Marine Sciences	Portugal
Lambert	Katrin	MK1 Dresden	Germany
Lambert	Elise	UMR CNRS 5242 - ENS de Lyon	France
Landgraf	Kathrin	University of Leipzig	Germany
Laranjeiro	Ricardo	University College London	United Kingdom
Lau	Stephanie	Yale University	USA
Lecaudey	Virginie	University of Freiburg - BIOS	Germany
Leclair	Elizabeth	DePaul University	USA
Ledin	Johan	Uppsala Universitet	Sweden
Lee	Miler	Yale University	USA
Lee	Shyh-jye	National Taiwan University	Taiwan
Lee	Okhyun	University of Exeter	United Kingdom
Lee	Stacey	Vanderbilt University	USA
Lee	Simon Ming Yuen	University of Macau	China
Legler	Juliette	VU University Amsterdam	Netherlands
Legradi	Jessica	VU Amsterdam	Netherlands
Leibold	Sandra	University of Cologne	Germany
Lemmens	Kim	KU Leuven	Belgium
Leonard	Marc	L'OREAL	France
Letamendia	Ainhoa	-	Spain
Letelier	Joaquin	CABD	Spain
Lévesque	Mathieu	Johns Hopkins University	USA
Levkowitz	Gil	Weizmann Institute of Science	Israel
Li	Shang	University of Macau	China
Li	Yihao	Leiden University Medical Center	Netherlands
Li Yih	Lin	National Taiwan Normal University	Taiwan
Liao	Wei-hao	Institution of biological chemistry	Taiwan
Liao	Bo-kai	NIMR, MRC	United Kingdom
Lieschke	Graham	Monash University	Australia
Lin	Cheng-yung	National Taiwan University	Taiwan
Lin	Meng-ju	Institute of Zoology, NTU	Taiwan
Linsley	Jeremy	University of Michigan	USA
Lissouba	Alexandra	Université de Montréal	Canada
Liu	Yi-wen	Tunghai University	Taiwan
Liu	Wangta	Academia Sinica	Taiwan
Liu	Yanmei	Institute of Molecular Medicine, Peking University	China
Llopis Borrás	Juan	Universidad de Castilla-La Mancha	Spain
Look	Thomas	Dana Farber Cancer Institute	USA
Lopez Baez	Juan Carlos	University of Edinburgh	United Kingdom
Lopez Ramirez	Ana	University of Cambridge	United Kingdom
Lourenço Almeida	Ana	University of Porto	Portugal
Low	Sean	The Rockefeller University	USA
Lucas	Chris	University of Edinburgh	United Kingdom
Luengo	Mario	Centro Andaluz de Biología del Desarrollo	Spain
Macdonald	Ryan	University of Cambridge	United Kingdom
Macinnes	Alyson	Hubrecht Institute	Netherlands
Maier	Jana	Karlsruhe Institute of Technology (KIT)	Germany
Maier	Esther	Sheffield University	United Kingdom
Malicki	Jarema	university of sheffield	United Kingdom
Marco-Ferreres	Raquel	Centro de Biología Molecular Severo Ochoa UAM-CSIC	Spain
Marelli	Federica	IRCCS ISTITUTO AUXOLOGICO ITALIANO	Italy
Marlow	Florence	Einstein	USA
Marsal	Maria	IBMB CSIC	Spain

Apellido	Nombre	Institución	País
Martin-Blanco	Enrique	The Molecular Biology Institute of Barcelona	Spain
Martin-Caballero	Juan	PRBB	Spain
Martinez-Morales	Juan R	CABD	Spain
Martins	Teresa	Luxembourg Centre for Systems Biomedicine	Luxembourg
Masai	Ichiro	Okinawa Institute of Science	Japan
Mateus	Rita	Centro de Estudos de Doenças Crónicas	Portugal
Matsuoka	Ryota	Max Planck Institute for Heart and Lung Research	Germany
Mazzini	Flavia	CETESB	Brazil
Medeiros Tavares De Oliveira	Giovanna	Pontifical University Catholic of Rio Grande do Sul	Brazil
Meireles	Ana	Stanford University	USA
Meng	Anming	faculty/prof	China
Menke	Aswin	TNO Triskelion	Netherlands
Mensch	Sigrid	University of Edinburgh	United Kingdom
Mercader	Nadia	CNIC	Spain
Mesquita	Duarte	CEDOC, Faculdade de Ciências Médicas	Portugal
Meyer	Claudia	MK1, TU Dresden	Germany
Meyer	Dirk	University Innsbruck	Austria
Meyers	Jason	Colgate University	USA
Meza Santoscoy	Paola Leticia	University of Sheffield	United Kingdom
Miaczynska	Marta	International Institute of Molecular and Cell Biology (IIMCB)	Poland
Miguel-Escalada	Irene	University of Birmingham	United Kingdom
Minguillon	Carolina	IBMB CSIC	Spain
Mione	Maria Caterina	KIT	Germany
Mitani	Hiroshi	The University of Tokyo	Japan
Mitry	Richard	SYNCROSOME	France
Mochizuki	Toshiaki	OIST	Japan
Mohr	Alexandra	Sanofi-Aventis Deutschland GmbH	Germany
Mommaerts	Hendrik	KULeuven	Belgium
Monk	Kelly Monk	Washington University	USA
Moons	Lieve	KU Leuven	Belgium
Moreman	John	University of Exeter	United Kingdom
Moreno-Mateos	Miguel Angel	Yale University School of Medicine	USA
Moriarty	Miriam	NUI Galway	Ireland
Moro	Enrico	University of Padova	Italy
Mosimann	Christian	Institute of Molecular Life Sciences	Switzerland
Mueller	Patrick	Max Planck Institute for Developmental Biology	Germany
Mugniery	Emilie	CNRS	France
Mugoni	Vera	University of Turin	Italy
Muller	Marc	University of Liege	Belgium
Munch	Juliane	CNIC	Spain
Muriana	Arantza	BBD BioPhenix S.L.	Spain
Mysiak	Karolina	University of Edinburgh	United Kingdom
Nakatani	Hiroko	INSERM	France
Nakayama	Yukiko	Saitama University	Japan
Narayanan	Rachna	MRC National Institute for Medical Research	United Kingdom
Naruse	Kiyoshi	National Institute for Basic Biology	Japan
Navarro	Virginia	Azi-Tecnalia	Spain
Nechiporuk	Alex	Oregon Health&Science University	USA
Nencka	Radim	Institute of Organic Chemistry and Biochemistry AS CR	Czech Republic
Neuhauss	Stephan	University of Zurich	Switzerland
Newman	Trent	University of Otago	New Zealand
Nguyen	Phong	Monash University	Australia
Nicenboim	Julian	Weizmann Institute of Science	Israel
Nicolás-Pérez	María	CABD	Spain
Nicoli	Stefania	Yale School of Medicine	USA
Nielsen	Michael Engelbrecht	Technical University of Denmark	Denmark
Nieto	M. Ángela	CSIC - Universidad Miguel Hernández	Spain
Niklaus	Stephanie	University of Zurich	Switzerland
Ninov	Nikolay	MPI-Bad Nauheim	Germany
Nishimura	Kyohei	Shionogi & CO., LTD.	Japan



Apellido	Nombre	Institución	País
Nishiwaki	Yuko	Okinawa Institute of Science and Technology	Japan
Nissanov	Jonathan	Touro University, Nevada	USA
Noel	Emily	Hubrecht Institute	Netherlands
Norden	Caren	MPI-CBG Dresden	Germany
Novodvorsky	Peter	University of Sheffield	United Kingdom
Ny	Annelii	Laboratory for Molecular Biodiscovery	Belgium
Nystrom	Staffan	Dept Of Oncology And Pathology, Karolinska Institutet	Sweden
Oates	Andrew	MRC-NIMR/UCL	United Kingdom
Oberpichler	Inga	Karlsruhe Institute of Technology (KIT)	Germany
Obholzer	Nikolaus	Harvard Medical School	USA
Ocaña	Oscar	Instituto de Neurociencias	Spain
O'connor	Elaine	NUI Galway	Ireland
Odstrcil	Iris	HARVARD UNIVERSITY	USA
Ohnesorge	Nils	Max Planck Institute for Molecular Biomedicine	Germany
Oit	Jennifer	University of Sheffield	United Kingdom
Oltova	Jana	Institute of Molecular Genetics	Czech Republic
Oltrabella	Francesca	University of Manchester	United Kingdom
Omini	Alice	Università degli Studi di Milano	Italy
Opitz	Robert	ULB	Belgium
Ortmann	Julia	Helmholtz Centre for Environmental Research GmbH - UFZ	Germany
Osborne	Olivia	University of Exeter	United Kingdom
Oswald	Julia	Cambridge University	United Kingdom
Ota	Satoshi	Riken	Japan
Ott	Elisabeth	Uniklinikum Freiburg	Germany
Otten	Auke	Maastricht University	Netherlands
Ozcan	Guliz	University College London	United Kingdom
Özhan	Günes	Biotechnology Center-TU Dresden	Germany
Pack	Michael	UPenn	USA
Page	Lionel	IRO	Switzerland
Pallafacchina	Giorgia	CNR Institute of Neuroscience - University of Padova	Italy
Palstra	Arjan	IMARES	Netherlands
Panakova	Daniela	MDC	Germany
Panier	Thomas	Université Pierre et Marie Curie	France
Pantazis	Periklis	ETH	Switzerland
Pantoja	Carlos	University of California Berkeley	USA
Panza	Paolo	Max Planck Institute for Developmental Biology	Germany
Paolini	Alessio	Centre for Organismal Studies - Heidelberg University	Germany
Papamarcaki	Thomais	UNIVERSITY OF IOANNINA	Greece
Parajes Castro	Silvia	Max Planck Institute for Heart and Lung Research	Germany
Paranthaman	Karthika	University of Edinburgh	United Kingdom
Pardo	Miguel A.		Spain
Park	Hyewon	University of Kansas	USA
Parker	Matt	Queen Mary, University of London	United Kingdom
Parsons	Michael	Johns Hopkins University	USA
Patrick	Jane	Wellcome Trust Sanger Institute	United Kingdom
Patten	Shunmoogum	University of Montreal	Canada
Patton	Liz	University of Edinburgh Western General Hospital	United Kingdom
Pauls	Stefan	MRC National Institute for Medical Research	United Kingdom
Peers	Bernard	Université de Liège	Belgium
Penner	Marco	UniversityHospital Zurich	Switzerland
Peralta	Marina	CNIC	Spain
Pereira	Talita	PUCRS	Brazil
Peres	Joao	King's College London	United Kingdom
Perkins	Brian	Cleveland Clinic Foundation	USA
Peterkin	Tessa	University of Oxford	United Kingdom
Petrasko	Anne	Faculty of Life Sciences	Austria
Peyriéras	Nadine	CNRS	France
Pfeiffer	Jana	Institute of Cell Biology	Germany
Phng	Li-kun	VIB	Belgium
Pietri	Thomas	INSERM-1024	France

Apellido	Nombre	Institución	País
Pilsczek	Florian	University of Sheffield	United Kingdom
Pinheiro	Philip	University of Oxford	United Kingdom
Pinto	Wilson	Sparos, Lda	Portugal
Pinton	Gaëtan	IRO	Switzerland
Piqué	Ester	University of Barcelona	Spain
Pitto	Letizia	Institute of Clinical Physiology	Italy
Pooranachandran	Niedharsan	University of Sheffield	United Kingdom
Poulain	Morgane	IBV CNRS UMR7277 INSERM 1091	France
Pownall	Betsy	University of York	United Kingdom
Prajsnar	Tomasz	University of Sheffield	United Kingdom
Prill	Kendal	University of Alberta	Canada
Pruvot	Benoist	GIGA	Belgium
Przykhozij	Sergey	IWK Health Centre	Canada
Pujades	Cristina	Universitat Pompeu Fabra	Spain
Pujol-martí	Jesús	Helmholtz Zentrum München	Germany
Pusztai	Zsofia	Wellcome Trust Sanger Institute	United Kingdom
Pylawka	Serhiy	Rockefeller University	USA
Querol-Cano	Laia	Institute of Biology, Leiden University	Netherlands
Quevedo	Celia	BBD BioPhenix S.L.	Spain
Radev	Zlatko	INRA	France
Radomska	Katarzyna	Uppsala University	Sweden
Raimundo	Paulo	Ultragene, Lda	Portugal
Raldua	Demetrio	IDAEA-CSIC	Spain
Ramezani	Thomas	University of Edinburgh	United Kingdom
Rampon	Christine	CNRS UMR 7241 / INSERM U1050/College de france	France
Ramspacher	Caroline	CERBM	France
Razin	Aharon	-	Israel
Readman	Gareth	University of Bristol	United Kingdom
Recher	Gaëlle	CNRS	France
Reichert	Sabine	Cancer Research UK - London Research Institute	United Kingdom
Reichman-Fried	Michal	University of Münster	Germany
Reimer	Michell M.	University of Edinburgh	United Kingdom
Reis Schneider	Ana Claudia	Hospital de Clínicas de Porto Alegre	Brazil
Reischauer	Sven	Max Planck for Heart and Lung Research	Germany
Renn	Joerg	University of Liege	Belgium
Reverendo	Marisa	University of Aveiro	Portugal
Reyes	Ariel	Universidad Andrés Bello	Chile
Reynolds	Scott	University of Bristol	United Kingdom
Ribo Colls	Marta	PARC CIENTIFIC DE BARCELONA	Spain
Richardson	Rebecca	University of Bristol	United Kingdom
Richendrfel	Holly	Brown University	USA
Richter	Sandra	MRC National Institute for Medical Research	United Kingdom
Rider	Sebastien	The University of Edinburgh	United Kingdom
Riemer	Stephan	Georg-August-University Goettingen	Germany
Rihel	Jason	University College London	United Kingdom
Riley	Bruce	Texas A&M University	USA
Riley	Lela	IDEXX RADIL	USA
Rink	Elke	NUI Galway	Ireland
Rizzi	Barbara	CNRS	France
Robles	Omara	UPR-School of Medicine	USA
Robles	Vanesa	University of León	Spain
Rodriguez	Raquel E.	Institute of Neuroscience of Castilla y León	Spain
Rodriguez Fraticelli	Alejo Ezequiel	Centro de Biología Molecular 'Severo Ochoa'	Spain
Rodriguez-Mari	Adriana	Institute for Bioengineering of Catalonia	Spain
Roher Armentia	Nerea	UAB	Spain
Ropstad	Erik	Norwegian School of Veterinary Medicine	Norway
Rossi	Adriano	University of Edinburgh	United Kingdom
Roszko	Isabelle	WASHINGTON UNIVERSITY IN ST LOUIS MISSOURI	USA
Rotllant	Josep	IIM-CSIC	Spain
Roussigne	Myriam	Centre de Biologie du Developpement	France

Apellido	Nombre	Institución	País
Rovira	Mireia	Universitat de Barcelona	Spain
Rubbini	Davide	Universitat Pompeu Fabra	Spain
Ruggiero	Florence	ENS de Lyon - CNRS	France
Ruyra	Angels	Universitat Autònoma de Barcelona (UAB)	Spain
Ryan	Rebecca	NUI Galway	Ireland
Ryckebusch	Lucile	University of California, San Diego	USA
Sacilotto	Natalia	University of Oxford	United Kingdom
Sager	Jonathan	Uppsala University	Sweden
Sakaguchi	Takuya	Cleveland Clinic	USA
Salbreux	Guillaume	MPI for the Physics of Complex Systems	Germany
Samarut	Eric	IGBMC	France
Sánchez	Laura	Universidad de Santiago de Compostela	Spain
Sanderson	Leslie	University of Auckland	New Zealand
Santoriello	Cristina	Harvard University	USA
Santoro	Massimo	University of Torino	Italy
Santos	Alexandre	Ultragene, Lda	Portugal
Santos Barbosa	Joana	Helmholtz-Zentrum Muenchen	Germany
Sarantis	Panos	BRFAA	Greece
Sarris	Milka	Institut Pasteur	France
Sauteur	Loïc	University of Basel, Biozentrum	Switzerland
Savy	Thierry	inaf	France
Scahill	Catherine	Wellcome Trust Sanger Institute	United Kingdom
Schier	Alexander	Harvard University	USA
Schilling	Thomas	Developmental Biology - University of California	USA
Schmid	Bettina	DZNE	Germany
Schmid, Bs	Miriam	FERRER INTERNACIONAL S.A	Spain
Schneider-Maunoury	Sylvie	Universite Pierre et Marie Curie	France
Schober	Michaela	Karlsruhe Institute of Technology(KIT)	Germany
Scholpp	Steffen	Karlsruhe Institute of Technology (KIT)	Germany
Scholz	Stefan	Helmholtz Centre for Environmental Research - UFZ	Germany
Schorderet	Daniel	IRO - Institut de Recherche en Ophtalmologie	Switzerland
Schulte-Merker	Stefan	Hubrecht Institute	Netherlands
Schulze	Ulrike	MRC NIMR	United Kingdom
Schürmann	Annika	University of Münster	Germany
Sealy	Ian	Wellcome Trust Sanger Institute	United Kingdom
Serba	Justyna	The University of Sheffield	United Kingdom
Serifi	Iliana	UNIVERSITY OF IOANNINA	Greece
Serluca	Fabrizio	Novartis Institutes for Biomedical Research	USA
Shah	Gopi	Max Planck Institute for molecular Cell Biology and Genetics	Germany
Shainer	Inbal	Faculty of life sciences, Tel-Aviv University	Israel
Shaw	Benjamin	University of Cambridge	United Kingdom
Shayegi	Nona	University Hospital Dresden	Germany
Shen	Hongyuan	INSTITUTE OF MOLECULAR AND CELL BIOLOGY	Singapore
Shkumatava	Alena	Institut Curie	France
Shoela	Ramy	Lurie Children's Research Center	USA
Shore	Sarah	St. Jude	USA
Singer	Amy	Zebrafish Model Organism Database	USA
Skobo	Tatjana	UNIVERSITÀ DI PADOVA	Italy
Soares	Rui	Instituto de Medicina Molecular	Portugal
Soares	Ana	University of Aveiro	Portugal
Sohm	Frederic	INRA	France
Solek	Cynthia	University of Ottawa	Canada
Solnica-Krezel	Lilianna	Washington University School of Medicine	USA
Sood	Raman	NHGRI/NIH	USA
Sorby	Jan Roger Torp	Norwegian School of Veterinary Science	Norway
Soroldoni	Daniele	MPI-CBG	Germany
Sorrells	Shelly	University of Utah Huntsman Cancer Institute	USA
Soulika	Marina	IBENS	France
Soussi-Yanicostas	Nadia	INSERM U. 676	France
Speleman	Frank	Ghent University	Belgium

Apellido	Nombre	Institución	País
Stachura	David	University of California, San Diego	USA
Stainier	Didier	Max Planck Institute for Heart and Lung Research	Germany
Stanganello	Eliana	Karlsruhe Institute of Technology (KIT)	Germany
Steiner	Aaron	The Rockefeller University	USA
Stemple	Derek	Wellcome Trust Sanger Institute	United Kingdom
Steventon	Benjamin	Institut Pasteur	France
Stewart	Caitlin	Wellcome Trust Sanger Institute	United Kingdom
Stil	Aurélie	Université de Montréal	Canada
Straehle	Uwe	Karlsruhe Institute of Technology	Germany
Sugano	Yuya	University of Zurich	Switzerland
Sumanas	Saulius	Cincinnati Children's Hospital	USA
Suzuki	Makoto	National Institute for Basic Biology	Japan
Svoboda	Ondrej	Institute of Molecular Genetics	Czech Republic
Swartz	Mary	University of Texas at Austin	USA
Swinarski	Marie	Max-Delbrück-Center Berlin	Germany
Tada	Masa	University College London	United Kingdom
Takacs	Carter	Yale University	USA
Takahashi	Tokiharu	University of Manchester	United Kingdom
Takahashi	Kazuki	Saitama University	Japan
Takehana	Yusuke	National Institute for Basic Biology	Japan
Takesono	Aya	University of Exeter	United Kingdom
Tal	Tamara	US Environmental Protection Agency	USA
Talbot	William	Stanford University	USA
Tanaka	Hideomi	Waseda Univ.	Japan
Tang	Joyce	Benaroya Research Institute	USA
Tarifeño	Estefania	University of Liege	Belgium
Tawk	Marcel	Inserm	France
Tazzyman	Simon	University of Sheffield	United Kingdom
Tegelenbosch	Ruud	Noldus Information Technology	Netherlands
Teixidó	Elisabet	GRET-CERETOX University of Barcelona	Spain
Tekeli	Isil	Institute for Bioengineering of Catalonia (IBEC)	Spain
Ten Martin	Daniel	Université Pierre et Marie Curie	France
Terriente	Javier	UPF	Spain
Tessadori	Federico	Hubrecht Institute	Netherlands
Thermes	Violette	INRA	France
Thierion	Elodie	IBENS	France
Thomas	Rachael	University of Exeter	United Kingdom
Thorn	Robert	Brown University	USA
Tingaud-Sequeira	Angela	Université Bordeaux 1	France
Tiso	Nataschia	University of Padova	Italy
Tomaszewski	Joanna	Lurie Children's Research Center	USA
Topczewska	Jolanta	Children's Memorial Hospital Research Center/NU	USA
Topczewski	Jacek	Lurie Children's Research Center	USA
Torraca	Vincenzo	Leiden University	Netherlands
Torres	Jorge	Universidad de Valparaiso	Chile
Townsend	Todd	University of Utah	USA
Travnickova	Jana	Université Montpellier II	France
Trengove	Monique	Deakin University	Australia
Trinh	Le	University of Southern California	USA
Trivedi	Vikas	California Institute of Technology	USA
Troelsen	Karin De Linde	University of Copenhagen	Denmark
Tropepe	Vincent	University of Toronto	Canada
Trubihora	Achim	ULB	Belgium
Tschopp	Markus	University of Bern	Switzerland
Turkalo	Timothy	University of Kansas	USA
Turner	Katherine	UCL	United Kingdom
Tuttle	Adam	University of California, Irvine	USA
Valdivia	Leonardo E.	University College London	United Kingdom
Van Boxtel	Thijs	Cancer Research UK London Research Institute	United Kingdom
Van Den Brandhof	Evert-Jan	National Institute for Public Health and the Environment	Netherlands

Apellido	Nombre	Institución	País
Van Der Kolk	Kees-jan	Delft University of Technology	Netherlands
Van Eeden	Freek	University of Sheffield	United Kingdom
Vandermoot	Isabelle	ULB	Belgium
Vanhauwaert	Suzanne	Ghent University	Belgium
Vanhollebeke	Benoit	Max Planck Institute for Heart and Lung Research	Germany
Vanoevelen	Jo	Maastricht University Hospital (MUMC+)	Netherlands
Varga	Mate	Eotvos Lorand University	Hungary
Varga	Zoltan	Zebrafish International Resource Center	USA
Varkuti	Boglarka	Eotvos Lorand University	Hungary
Varshney	Gaurav	National Institutes of Health	USA
Vass	Sharron	University of Edinburgh	United Kingdom
Vastenhouw	Nadine	MPI-CBG	Germany
Vejnar	Charles	Yale	USA
Veneman	Wouter	Leiden University - Institute Biology Leiden	Netherlands
Verbueken	Evy	University of Antwerp	Belgium
Verdon	Rachel	University of Edinburgh	United Kingdom
Vesterlund	Liselotte	Karolinska Institutet	Sweden
Vettori	Andrea	University of Padova	Italy
Vicente	Catarina	The Node, The Company of Biologists	United Kingdom
Vijayakumar	Parameswaran	Centre of Marine Sciences (CCMAR)	Portugal
Vliegenthart	Bastiaan	Edinburgh University	United Kingdom
Von Alpen	Desiree	EPF/IIRO	Switzerland
Voz	Marianne	Université de Liège	Belgium
Wagner	Nelly	The University of Sheffield	United Kingdom
Wai	Htoo	Aston University	United Kingdom
Wali	Neha	Wellcome Trust Sanger Institute	United Kingdom
Wang	Qiang	Institute of Zoology , Chinese Academy of Sciences	China
Wang	Tienan	hong kong university of science and technology	China
Wang	Han	Soochow University	China
Ward	Alister	Deakin University	Australia
Watanabe-Asaka	Tomomi	The University of Tokyo	Japan
Watson	Rachel	Wellcome Trust Sanger Institute	United Kingdom
Webb	Alexis	MRC National Institute for Medical Research	United Kingdom
Weber	Thomas	University Medicine Göttingen	Germany
Weger	Benjamin	Karlsruhe Institute of Technology	Germany
Weger	Meltem	Karlsruhe Institute of Technology	Germany
Weiss-Lavi	Omri	Institute for Medical Research - Israel-Canada	Israel
White	Richard	Wellcome Trust Sanger Institute	United Kingdom
Wieczorek	Bartosz	University of Cambridge	United Kingdom
Wilges Kist	Luiza	PUCRS	Brazil
Wilkinson	Robert	University of Sheffield	United Kingdom
Willaert	Andy	Ghent University	Belgium
Willems	Jelle	QM Diagnostics	Netherlands
Williams	Jennifer	Cincinnati Children's Hospital Medical Center	USA
Wilson	Steve	UCL	United Kingdom
Wilson	Carole	UCL	United Kingdom
Winata	Cecilia Lanny	Genome Institute of Singapore	Singapore
Windhausen	Thomas	GIGA Ulg	Belgium
Winter	Matthew	AstraZeneca, Brixham, UK	United Kingdom
Wittamer	Valerie	Université Libre de Bruxelles	Belgium
Wittbrodt	Joachim	University of Heidelberg	Germany
Witters	Hilda	VITO	Belgium
Wiweger	Malgorzata	International Institute of Molecular and Cell Biology	Poland
Wolinska	Lidia	International Institute of Molecular and Cell Biology	Poland
Wolterbeek	André	TNO	Netherlands
Wong	Loksum	University of Toronto	Canada
Wright	Jonathan	Dalhousie University	Canada
Wu	Jen-leih	Academia Sinica	Taiwan
Wu	Bo-kai	National Taiwan University	Taiwan
Wu	Xiushan	Hunan Normal University	China

Apellido	Nombre	Institución	Pais
Wulff	Tune	DTU Food - National Food Institute	Denmark
Xu	Bing	Chinese Academy of Sciences	China
Yacoby-Zeevi	Oron	Neurodem Ltd.	Israel
Yaksi	Emre	Neuro-Electronics Research Flanders	Belgium
Yakulov	Toma	Uniklinik freiburg	Germany
Yamasu	Kyo	Saitama University	Japan
Yan	Bo	HKUST	China
Yan	Chuan	National university of singapore	Singapore
Yang	Ran	Peking University	China
Yanicostas	Constantin	INSERM U. 676	France
Yartseva	Valeria	Yale University	USA
Yeh	Chen-min	Max Planck Institute for Medical Research	Germany
Yelin-Bekerman	Laura	Bar Ilan University	Israel
Yeomans	James	University of Sheffield	United Kingdom
Yu	Tao	Hong Kong University of Science & Technology	China
Zamora	Jorge	Wellcome Trust Sanger Institute	United Kingdom
Zampedri	Maria Cecilia	Instituto de Fisiología Celular	Mexico
Zancan	Ilaria	University of Padova	Italy
Zecca	Andrea	Barcelona Biomedical Research Park	Spain
Zhang	Yiyue	Southern Medical University	China
Zhang	Jingpu	Chinese Academy of Medical Sciences	China
Zhao	Jue	Peking University	China
Zhao	Qiong	Chinese Academy of Medical Sciences	China
Zhu	Lu	Hong Kong University of Science and Technology	China
Zielinska	Katarzyna	National University of Ireland, Galway NUIG	Ireland
Zizioli	Daniela	School of Medicine Brescia	Italy
Zon	Leonard	Boston Children's Hospital	USA
Zsigmond	Aron	Eötvös Loránd University	Hungary
		<b>TOTAL PARTICIPANTES REALES</b>	<b>866</b>