FINAL PROGRAMME

The 9th European Zebrafish Meeting
Oslo, Norway, June 28-July 2, 2015
Do you want to be an IVF Expert, but are afraid to try?

We can supply you with the correct training, develop your competence with continuing support to turn you into that Expert!

Cryogenetics offers:

- IVF kit making the task of IVF (In Vitro Fertilization) much easier
- IVF training
- Full Cryopreservation, Storage and Back-up service

Come and visit us at booth #16 to hear lots more. This may be the most “fertile” conversation that you have this summer.

EJM9 COMPETITION

Question:
On average, how many sperm cells does it take to fertilize a zebrafish egg?

The first person that comes to booth #16 with the correct answer to this question will win a fantastic prize.

www.cryogenetics.com
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Plenary zebrafish lectures on mutagenesis/disease modeling, development/organ dysfunction, and chemical biology/drug discovery:

- Dr. Daniel Curtis, Director, Developmental and Molecular Pathways, Novartis Pharmaceuticals
  "Model systems for drug discovery"
- Dr. Stephen Ecker, Editor-in-Chief, Zebrafish & Mayo Clinic Rochester, USA
  "The science of engineering the zebrafish genome"
- Dr. Joanna Yeh, Massachusetts General Hospital and Harvard Medical School, USA
  "CRISPR technologies and a zebrafish phenotyping platform"
- Dr. Misha Ahrens, Janelia Farm, USA
  "Circuit discovery through large-scale imaging in behaving zebrafish"
- Dr. James Chan, Chemical and Systems Biology, Stanford University, USA
  "Light-activated technologies for zebrafish models"
- Dr. Bettina Schmid, German Center for Neurodegenerative Disease (DZNE), Germany
  "Zebrafish models of neurodegenerative diseases"
- Dr. Brian Oruna, The Hospital for Sick Children, Toronto, Canada
  "Linking motor cell dysfunction with adolescent idiopathic scoliosis"
- Dr. Rachel Gliss, Nephrology and Hypertension, UMC Utrecht, Netherlands
  "The zebrafish model of von Hippel-Lindau disease can improve treatment of VHL and kidney cancer"
- Dr. Josh Bonkowsky, Neurobiology & Anatomy, University of Utah, USA
  "From tank to bedside and back again: integrating discovery and treatment in pediatric neurological diseases"
- Dr. David Koke, University of California, San Francisco, USA
  "High-throughput behavior-based neuroactive drug discovery"
- Dr. Thomas Look, Dana Farber Cancer Institute, USA
  "A new class of drugs that activate PP2A and induce apoptosis in T-ALL is revealed in a zebrafish screen"
- Dr. Didier Stahrer, Max Planck Institute for Heart and Lung Research, Germany
  "Regulation of glucose homeostasis"

Plenary lectures on personalized/precision medicine and drug discovery:

- Dr. Kym Boycott, Co-Chair, International Rare Disease Research Consortium (IRDRC), University of Ottawa, Canada
  "Canada’s path forward for rare diseases; discovery to translation"
- Dr. David McKinzie, Senior Research Advisor, Eli Lilly & Company
  "Drug development woes; how can we improve attrition?"
- Dr. Muhammad Mammadli, Director, Applied Health Research Centre, St. Michael’s Hospital, Canada
  "From bench to bedside: clinical trials, pharmacoeconomics and drug policy considerations"
- Dr. Donald Weaver, Director, Toronto Western Research Institute & University of Toronto, Canada
  "Design and development of disease modifying agents for the treatment of dementia"
- Dr. Kurt R. Branden, University of Pennsylvania, USA
  "The pharmacological characterization of lead compounds"
- Dr. Raymond Anderson, University of British Columbia, Canada
  "Sponging off nature for new drug leads"
- Dr. Abraham Fleiss, CEO, Chemtria Inc.
  "Deep neural networks for drug binding affinity prediction"
- Dr. Yonne Will, Head of Science and Technology, Drug Safety Research and Development, Pfizer
  "The impact of assay technology for safety assessment in reducing compound attrition in drug discovery"

International Organizing Committee Members:

- Dr. Randall Peterson (Co-Chair, Harvard Medical School, USA)
- Dr. Elizabeth Patton (University of Edinburgh, UK)
- Dr. James Dowling (University of Toronto, Canada)
- Dr. Sridhar Sivasubbu (Genomics and Integrative Biology, India)
- Dr. Pierre Drapeau (University of Montreal, Canada)
- Dr. Christopher Barden (Treviciti Corporation)
- Dr. Xiao-Yan Wen (Chair, St. Michael’s Hospital, Canada)
Dear all participant

We are excited to host the 9th EZM in Oslo, Norway 2015!

The preparations for the 9th EZM have been smooth since it always is a pleasure to work and interact with the zebrafish community, always being “open source and free share minded” by default. As expressed in the programme, the zebrafish community gradually includes other model fish as well, with medaka as the main “non-family cousin”.

We have organized the meeting with an attempt at clustering into thematic areas. This is not really easy, and of course shouldn’t be. The focus on day 1 is on omics-related research. In the afternoon two parallel oral sessions on omics-related work and on advanced methods with imaging and genome editing will be on display. We have also included a husbandry session since this important field of management and refinement of zebrafish care lays the foundation for further increasing the competitiveness of our eminent research model. The poster session will fill many holes of sub-areas that cannot be covered in the short oral sessions due to lack of time.

The second day is basically dedicated to zebrafish as a biomedical model, an important driving force for technological development and for gradual delivery to applications with potential for clinical relevance. The three parallel oral sessions in the afternoon will include various biomedical applications together with relevant basic biology on morphogenesis and cell signaling. Again, this session will be complemented by a large poster session with lots of nice data presented.

On day 3 we highlight focus on an until now little explored thematic area for which we are convinced our favorite species can help to further develop food production in the sea; aquaculture. We have also included in this session a broad range of important applications for the zebrafish model, such as toxicology and biotechnology. Please be aware that posters and short talks covering day four topics will take place in the afternoon on day three.

Thursday July 2, the last day, will cover the exciting fields of zebrafish development and neurobiology, two diverse and highly popular areas of zebrafish research. In terms of abstracts submitted, the day 4 thematic areas attracted 47% of the total and were distributed to both day 1 (Oral-II and related posters) and day 2 (Oral-VI and related posters) afternoon programs.

In addition to the main programme there are three workshops: [1] Sunday morning with Working with Zebrafish Genome Resources, [2] Wednesday Lunch break with Zebrafish in Teaching and [3] Wednesday early evening, the DANIO_CODE. All represent important aspects for further development of the zebrafish model.

The social programme includes the Welcome reception on Sunday, an Invitation to the Oslo City Hall by the Mayor on Monday, and the EZM Conference dinner in the Opera house on Wednesday.

We hope you all will enjoy both the EZM2015 programme and the city of Oslo and look forward to be your hosts for the days during the 9th European Zebrafish Meeting!

Peter, Gareth, Vidar, Finn-Arne
On behalf of the organizing committee
COMMITTEES

9th EZM LOCAL ORGANIZING COMMITTEE
Peter Aleström, Norwegian University of Life Sciences
Gareth Griffiths, University of Oslo
Tor Øjøen, University of Oslo
Trude M. Haug, University of Oslo
Jan Ludvig Lyche, Norwegian University of Life Sciences
Charles Press, Norwegian University of Life Sciences
Finn-Arne Weltzien, Norwegian University of Life Sciences
Hanne C. Winther-Larsen, University of Oslo

SCIENTIFIC PROGRAMME SUB-COMMITTEES

Zebrafish Genome and Phenome
Peter Aleström, Norwegian University of Life Sciences, Norway
Ferenc Müller, University of Birmingham, UK
Johan Ledin, Uppsala University, Sweden/NHGRI-NIH, USA
Staale Ellingsen, National Institute of Nutrition and Seafood Research, Norway
Kurt Buchman, University of Copenhagen, Denmark

Biomedicine Models
Gareth Griffiths, University of Oslo, Norway
Elizabeth Patton, University of Edinburgh, UK
Ewa Snaar-Jagalska, Leiden University, Netherlands
Annemarie Meijer, Leiden University, Netherlands
Tor Øjøen, University of Oslo, Norway
Hanne Winther-Larsen, University of Oslo, Norway

Aqua Models
Jon Vidar Helvik, University of Bergen, Norway
Igor Babiak, University of Nordland, Norway
Peter Aleström, Norwegian University of Life Sciences, Norway
Petter Arnesen, Marine Harvest AS, Norway
Anna Wargelius, Institute of Marine Research, Norway
Gert Flik, Radboud University Nijmegen, Netherlands

Development, Neurobiology
Finn-Arne Weltzien, Norwegian University of Life Sciences, Norway
Charles Press, Norwegian University of Life Sciences, Norway
Max Schuster, University of Bergen, Norway
Ingvild Mikkola, University of Tromsø, Norway
Johan Ledin, Uppsala University, Sweden / NHGRI-NIH USA
Jean-Stephane Joly, CNRS GIF-SUR-YVETTE / AMGEN, France
Camila Esguerra, The Biotechnology Centre of Oslo, Norway

CONGRESS ORGANIZER
Congress-Conference AS,
Oslo, Norway
Mail: ezm2015@ccnorway.no
ccnorway.no
INVITED SPEAKERS

Keynote Speakers
Ewan Birney, EMBL Outstation – Hinxton, United Kingdom
Rainer Friedrich, Friedrich Miescher Institute for Biomedical Research, Switzerland
Leonard Zon, Boston Children’s Hospital, United States
Laia Ribas, Institut de Ciencies del Mar, Spain

Invited
Jochen Wittbrodt, Heidelberg University, Germany
David Traver, University of California at San Diego, United States
Jan Huiskens, Max Planck Institute of Molecular Cell Biology and Genetics, Germany
Jean-Pierre Levraud, Institut Pasteur, France
Didier Stainier, Max Planck Institute for Heart and Lung Research, Germany
Antonio J. Giraldez, Yale University, United Kingdom
Shawn Burgess, National Human Genome Research Institute, United States
Pierre Drapeau, University of Montreal, Canada
David Tobin, Duke University School of Medicine, United States
Olivier Kah, Research Institute in Health, Environment and Occupation, France
Steve Harvey, The Wellcome Trust Sanger Institute, United Kingdom
Simon MacKenzie, Institute of Aquaculture at University of Sterling, United Kingdom
Christian Lawrence, Boston Children’s Hospital, United States
Hanne C. Winther-Larsen, University of Oslo, Norway
Jeroen Bakkers, Hubrecht Instituut, The Netherlands
Claire Wyart, ICM, France
Ewa Snaar-Jagalska, Institute of Biology at Leiden University, The Netherlands
Florence Marlow, Albert Einstein College of Medicine, United States
Jose Luis Gomez-Skarmeta, Centro Andaluz de Biología del Desarrollo, Spain
Anne-Laure Duchemin, Centre for Organismal Studies, Germany
SOCIAL EVENTS

Get-together
The Get-together will be held at the Venue Oslo Congress Centre
Sunday the 28th of June from 17:00 until 19:00.

Reception
The Reception will be held at the Oslo City Hall, Monday the 29th of
June at 19:00 hrs - 20:30.
Inaugurated in 1950, Oslo City Hall is the city’s administrative body
and the seat of the City Council. The building has been decorated by
great Norwegian art from 1930-1950, with motifs from Norwegian
history, culture and working life.

The Mayor of Oslo invites you for a glass of wine and a light meal in
great surroundings at the waterfront of the City. Please present your
invitation card at the entrance.

Conference Dinner
The Conference Dinner will be held at the Opera building,
Wednesday the 1st of July at 20:00 hrs.

EZM2015 invites its participants to this very exclusive location for the
Congress Dinner. Oslo’s Opera House is located right at the harbour,
with an angled, white exterior that appears to rise from the water.
It invites its visitors to climb its roof and enjoy panoramic views of
Oslo and the fjord, all year round.

The building’s interior is mainly oak, and the main hall is shaped
like a horseshoe, reminiscent of classical theatres of the past.
The opera is designed by the Norwegian architecture firm Snøhetta,
and has received several prestigious awards.

Price: 800,- NOK [Limited number of seats].
Check with the registration desk for available tickets.
GENERAL INFORMATION

Oslo
Oslo is the political and economic capital of Norway and city of 650,000 inhabitants. It is a global city and hub for Norwegian trade, transport and industry as well as a centre for the arts and culture.

Venue
Oslo Kongressenter
Youngs gate 11, 0181 Oslo
http://www.oslokongressenter.no/en/

Access to Oslo Kongressenter
Getting to the Oslo Congress Centre is easy. It is about 700 metres (about a 7-minute walk) from Oslo central station, where trains, airport shuttle trains and busses and underground trains constantly arrive. The closest tram and bus stop is Brugata, at the Gunerius shopping centre. From Brugata it is a 5-minute walk to the congress centre.

Registration desk
The registration desk/secretariat will be located in the foyer of Oslo Kongressenter. All participants are requested to register onsite to receive their conference material. Please wear your badge at all times.

Opening hours
Sunday 28th: 15:00 – 19:00
Monday 29th: 07:30 – 18:00
Tuesday 30th: 07:30 – 18:00
Wednesday 1st: 07:30 – 18:00
Thursday 2nd: 07:30 – 14:30

Name badges
All registered participants and accompanying persons receive a badge once arriving at the registration desk. The badge is your document to enter the conference site or any of the social activities. We kindly ask you to always wear your badge visible during all events.

Language
The conference language is English.

Climate and clothing
The average day-time temperature in Oslo at the end of June is around 15–20°C. Evenings may be cooler. Occasional rain showers are likely to occur. It is advisable to bring some warm clothes with you just in case.

Internet services
Free wi-fi is available at Oslo Kongressenter.

Tourist Information
Between the Oslo Fjord and the green hills of Oslomarka lies the Norwegian capital! The combination of city life and easy access to outdoor activities makes Oslo a unique destination. The easiest and most inexpensive way to experience Oslo is the to buy the Oslo Pass at the tourist office which provides free travel on all public transport, free admission to museums and sights, free parking in all Oslo municipal car parks, discounts on car hire, Tusenfryd Amusement Park etc.

For more information visit www.visitoslo.com or visit the tourist information centers in Oslo that can help you with information and free brochures about Oslo.

Currency
The monetary unit in Norway is Norwegian Kroner (NOK). VISA, MasterCard, Diners and American Express are all accepted in most ATMs, hotels, shops, and restaurants. Currency can be exchanged at banks and exchange centers around Oslo.

Useful information
Police: 112
Ambulance: 113
Fire department: 110

PCO
Congress-Conference AS
mail@ccnorway.no
tel: +47 22 56 19 30
fax: +47 22 56 05 41
www.ccnorway.no

Speaker Room
There is no designated Speaker Room. Speakers are requested to upload the presentation in their session room 1/2 hour before session start.
LIST OF HOTELS

Accommodation
The EZM2015 offers accommodation at different hotels in different categories, all within walking distance to the Venue.

<table>
<thead>
<tr>
<th>HOTEL</th>
<th>STREET ADDRESS</th>
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<tbody>
<tr>
<td>Radisson Blu Plaza Hotel</td>
<td>Sonja Henies plass 3</td>
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<tr>
<td>Clarion Hotel Royal Christiania</td>
<td>Biskop Gunnerus’ gate 3</td>
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<tr>
<td>Thon Hotel Munch</td>
<td>Munchs gate 5</td>
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<tr>
<td>Thon Hotel Opera</td>
<td>Dronning Eufemias gate 4</td>
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<tr>
<td>Clarion Hotel Folketeateret</td>
<td>Storgata 21-23</td>
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<tr>
<td>Scandic Oslo City</td>
<td>Europarådets Plass 1</td>
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<td>Thon Hotel Spectrum</td>
<td>Brugata 7</td>
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## LIST OF EXHIBITORS

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<th>SPONSOR</th>
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<tbody>
<tr>
<td>Platinum sponsor</td>
<td>Stand 7</td>
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<td>TECNIPLAST</td>
<td>innovation through passion™</td>
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<td>Key sponsor</td>
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<td>Fulcrum Automation &amp; Control Technologies</td>
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- Stand 15   Aqua Schwarz GMBH
- Stand 11   Aquaneering
- Stand 4    BioTek
- Stand 10a  Bitplane
- Stand 14   Carl Zeiss AS
- Stand 16   Cryogenetics AS
- Stand 18   Eppendorf AG
- Stand 29   EZRC (European zebrafish resource center)
- Stand 32   IDEXX BioResearch
- Stand 17   INTAVIS Bioanalytical Instruments AG
- Stand 1    Leica Microsystems / Ortomedic AS
- Stand 19   Loligo Systems
- Stand 31   MDE Ltd.
- Stand 12   Nikon & Inter Instrument AS
- Stand 13   Noldus Information Technology
- Stand 2    Olympus Norge AS
- Stand 8    Pentair Aquatic Eco-Systems
- Stand 6a   R&W Associates
- Stand 33   Skretting Group
- Stand 10b  Sparos LDA
- Stand 9    Union Biometrica Inc.
- Stand 3    Viewpoint
- Stand 6b   World Precision Instruments
- Stand 30a  Zebrafish Model Organism Database (ZFIN)
- Stand 30b  ZIRC (Zebrafish International Research Centre)
SESSION SCHEDULE
SUNDAY, JUNE 28, 2015

09:00 - 16:30 Room: Hall D
The Wellcome Trust Sanger Institute and ZFIN Workshop; Working with Zebra-fish Genome Resources

15:00 - 19:00 Room: Foyer
Registration at Oslo Kongressenter

17:00 - 19:00 Room: Foyer
Welcome reception at the Venue

MONDAY, JUNE 29, 2015

08:00 - 08:10 Room: Plenary hall - Hall A
Opening of EZM2015 by the Rectors of Norwegian University of Life Sciences, Mari Sundli Tveit and University of Oslo, Ole Petter Ottersen

08:10 - 09:00 Room: Plenary hall - Hall A
Opening address Keynote 1

08:10 Big Data In Biology KN-01
Ewan Birney
EMBL Outstation - Hinxton, UNITED KINGDOM

09:00 - 09:30 Room: Plenary hall - Hall A
Invited plenary 1
Chairs: Andrea Pauli, Christian Mosiman

09:00 Gene Regulation Dynamics And Chromatin Architecture During Development And Evolution IP-01
Jose Luis Gomez-Skarmeta
Centro Andaluz de Biología del Desarrollo, SPAIN

09:30 - 10:00 Coffee and Exhibition Room: Foyer

10:00 - 10:30 Room: Plenary hall - Hall
Invited plenary 2

10:00 Spatial And Single Cell Transcriptomics IP-02
Steve Harvey
The Wellcome Trust Sanger Institute, UNITED KINGDOM
### Invited plenary 3

**10:30 - 11:00**

**Room: Plenary hall - Hall A**

**Characterizing Gene Regulation During Embryonic Development Using Ribosome Footprinting, Interactome Capture And Clip-seq**

Antonio J Giraldez  
Yale University, USA

### Invited plenary 4

**11:00 - 11:30**

**Room: Plenary hall - Hall A**

**Genetic Compensation Induced By Deleterious Mutations But Not Gene Knockdowns**

A. Rossi; Z. Kontarakis; C. Gerri; H. Nolte; S. Hoelper; M. Krueger; Didier Stainier  
Max Planck Institute for Heart and Lung Research, GERMANY

### Invited plenary 5

**11:30 - 12:00**

**Room: Plenary hall - Hall A**

**Genome-wide RNA Tomography**

Jeroen Bakkers; F Kruse; S Burkhard; E Noël; P Junker; A Van Oudenaarden  
hubrecht Institute, NETHERLANDS

### Posters I (even)

**13:00 - 14:00**

**Room: Møller**

**Transcriptional Regulation And Function Of Gla Rich Protein Gene In Zebrafish**

Natércia Conceição¹; C Fazenda¹; G Martins¹; PJ Gavaia¹; ML Cancela³  
¹Center of Marine Sciences (CCMAR). University of Algarve. Faro., PORTUGAL; ²Center of Marine Sciences (CCMAR). PhD Programme in Biomedical Sciences, Depart. Biomedical Sciences a, PORTUGAL; ³Center of Marine Sciences (CCMAR). Department of Biomedical Sciences and Medicine, University of Alg, PORTUGAL

**HAVANA’s Move To GRCz10**

S.J. Donaldson; G.K. Laird; D.M. Lloyd; K. Howe; J.E. Collins; J.L. Harrow  
Wellcome Trust Sanger Institute, UNITED KINGDOM

**Studying The Gene Regulatory Network Of Heart Development In Danio Rerio Using Genomics Approach**

K. Niescierowicz; CL Winata  
International Institute of Molecular and Cell Biology, Poland; Max-Planck Institute of Heart and Lun, POLAND
Pathogenetic Study At The Intersection Of Marfan Syndrome And Autosomal Dominant Polycystic Kidney Disease

Dorien Schepers¹; C Golzio²; E Davis³; C Claes¹; E Reyniers¹; A Raes³; N Katsanis²; L Van Laer¹; B Loeys¹
¹Center for Medical Genetics, University of Antwerp, Antwerp, BELGIUM; ²Center for Human Disease Modeling, Duke University Medical Center, Durham, NC, UNITED STATES; ³Department of Pediatrics, Ghent University, Ghent, BELGIUM

Developing Allelic Discrimination Assays In Zebrafish Embryos

Htoo Wai; Laura Doglio; Stefan Pauls; Greg Elgar
The Francis Crick Institute, UNITED KINGDOM

Targets Of Somatic Hypermutation In Zebrafish Immunoglobulin Heavy Chain Gene Segments

Ana Zimmerman
College of Charleston, UNITED STATES

MiRNA-212 And MiRNA-29a Modulate Dopaminergic Differentiation Through Opioid Signaling And Notch Pathway

A. Garcia Concejó¹; A. Jimenez Gonzalez¹; L. Garric²; P. Blader²; R. Rodriguez Rodriguez¹
¹Institute of Neurosciences of Castilla y Leon (INCyL), SPAIN; ²Université de Toulouse, UPS, Centre de Biologie du Développement (CBD), FRANCE

New Insights In The Effects Of Morphine On CNS Development: Role Of MiR-212/132 And OPRM1 In The Regulation Of BDNF In Zebrafish Embryos

A. Jimenez Gonzalez; A. Garcia Concejó; S. Lopez Benito; J.C. Arevalo; R. Rodriguez Rodriguez
Institute of Neurosciences of Castilla y Leon (INCyL), SPAIN

Normal Formation Of The Vertebrate Body Plan And Loss Of Cardiac Integrity In The Absence Of Ezh2

Leonie Kamminga¹; N. Wittkopp¹; N.D. Chrispijn¹; B. San¹; S.J. Van Heeringen¹; A.K. Lagendijk³; N. Wittkopp¹; R.F. Ketting²
¹Radboud Institute for Molecular Life Sciences, NETHERLANDS; ²Institute for Molecular Biology, GERMANY; ³Institute for Molecular Biosciences, AUSTRALIA; ⁴Hubrecht Institute, NETHERLANDS

Developmental Dynamics And Tissue Distribution Of Hydroxymethylcytosine In The Zebrafish

Jorke Kamstra¹; Marianne Løken²; Peter Aleström²; Juliette Legler¹
¹VU University Amsterdam, Institute for Environmental Studies, NETHERLANDS; ²Norwegian University of Life Sciences, Faculty of Veterinary Medicine and Biosciences, NORWAY

5-hmC In Zebrafish Genome And The Role Of The TET Proteins In DNA Demethylation

Agnieszka Kolano¹; M Pastor²; M Wojciechowski¹; T Fricke¹; M Wawrzyniak¹; M Bochtler³
¹INTERNATIONAL INSTITUTE OF MOLECULAR AND CELL BIOLOGY AT WARSAW, POLAND; ²INSTITUTE OF BIOCHEMISTRY AND BIOPHYSICS, POLAND

The Role Of Ezh2 In Intestinal Function And Tissue Maintenance During Development

B San¹; N Van Buuringen¹; K Völztke¹; Rf Ketting²; Lm Kamminga¹
¹Department of Molecular Biology, Radboud Institute for Molecular Life Sciences, Radboud University N, NETHERLANDS; ²Institute for Molecular Biology, Mainz, GERMANY
Changes In Muscle DNA Methylation Patterns Associated With Rearing Temperature In Zebrafish
I. Shcherbakova\textsuperscript{1}; M. Kopp\textsuperscript{1}; P. Sætrom\textsuperscript{2}; C. Presslauer\textsuperscript{1}; S. Kollias\textsuperscript{1}; I. Babia\textsuperscript{1}; J.M.O. Fernandes\textsuperscript{1}
\textsuperscript{1}UiN, NORWAY; \textsuperscript{2}NTNU, NORWAY

IGC Zebrafish Facility: A Global Outlook
Ana Borges; N Pereira; M Franco; L Vale; J Rodrigues; M Pinto; M Rebelo
Instituto Gulbenkian de Ciência, PORTUGAL

Understanding Establishment Of Fish Pigment Pattern Formation - A Transgenic Reporter Approach To Countershading
Laura Cal\textsuperscript{1}; C. Gomez-Marin\textsuperscript{2}; J.L. Gomez-Skarmeta\textsuperscript{a}; P. Moran\textsuperscript{3}; J.M. Cerda-Reverter\textsuperscript{b}; R.N. Kelsh\textsuperscript{c}; J. Rotllant\textsuperscript{1}
\textsuperscript{1}Institute of Marine Research (IIM-CSIC), SPAIN; \textsuperscript{2}Andalusian Center of Developmental Biology (CSIC/UPO), SPAIN; \textsuperscript{3}Dep. Biochemistry, Genetic and Immunology, University of Vigo, SPAIN; \textsuperscript{a}Institute of Aquaculture of Torre de la Sal (IATS-CSIC), SPAIN; \textsuperscript{b}Centre for Regenerative Medicine and Developmental Biology Programme, University of Bath, UNITED KINGDOM

Factors Of Importance For Successful In Vitro Fertilization With Fresh Or Cryopreserved Sperm From Zebrafish (Danio Rerio)
Inger Synnøve Grevle; K.N. Ruud; J. Sunde
Cryogenetics AS, NORWAY

Melatonin And Parameters Of Locomotion And Stress In Zebrafish (Danio Rerio)
L. C. Lunkes; L. D. S. Murgas; I. M. Paiva; T. F. D. Castro; R. C. Egger; I. L. Assis; C. S. E. Do Carmo; L. T. Libeck; P. R. Ribeiro; R. R. Paulino
Universidade Federal de Lavras UFLA, BRAZIL

Strategic And Technological Changes In Line Regeneration, Quality Control, And Distribution At The Zebrafish International Resource Center (ZIRC)
Andrzej Nasiadka; J Hwang-Shum; J Matthews; K Core; E Loucks; D Marston; J Murphy; E Williams; D Lains; A Freeman; R Holland; M Westerfield; Z M Varga
Zebrafish International Resource Center, UNITED STATES

Creation And Implementation Of A Body Conditioning Scoring System To Standardise Health Checking Of Laboratory Zebrafish
C.L Wilson; K,D Dunford
UCL, UNITED KINGDOM

Progress Of The European Zebrafish Resource Center
Robert Geisler; N Borel; M Ferg; J Maier; D Marcato; R Peravali; U Strähle
Karlsruhe Institute of Technology, GERMANY

SPNS2 Function Is Essential For Heart Chamber Specification In Zebrafish
D Asam; E Patzel; W Rottbauer; S Just
University Hospital Ulm, GERMANY

The Role Of Calcium Cues During Angiogenesis
Laura Bartolini; D. Panakova
Max Delbrueck Center, GERMANY
Phenotypic And Transcriptional Analyses Of Zebrafish Myh6-/- Adult Ventricles
A Agalou; P Kefalos; C Roedel; Dimitris Beis
BRFAA, GREECE

The Knockdown Of Vsg1 Causes Defects In Early Lymphatic Development
S. Cremenati; S. Moleri; A. Omini; F. Fontana; G. Pavesi; M. Beltrame
Dip. Bioscienze - Universita’ degli Studi di Milano, ITALY

Genetic Analysis Of Endocardial Chamber Differentiation In Zebrafish
Dorothee Bornhorst1; A.-C. Dietrich1; S. Abdelilah-Seyfried2
1Hannover Medical School, GERMANY; 2University of Potsdam;
Hannover Medical School, GERMANY

Loss Of Histone Deacetylase 1 Leads To Cardiac Hypoplasia In Zebrafish Embryos
Anja Bühler; Sofia Hirth; Wolfgang Rottbauer; Steffen Just
University Hospital Ulm, Internal Medicine II, Molecular Cardiology, GERMANY

AP-1 Transcription Factor Junb Controls Lymphatic Vascular Development In Zebrafish Via MiR-182
K Kiesow1; K Bennewitz2; La Gutierrez Miranda1; Si Stoll2; P Angel1; J Kroll2;
M Schorpp-Kistner1
1Division of Signal Transduction and Growth Control, DKFZ-ZMBH Alliance,
German Cancer Research Cente, GERMANY; 2Department of Vascular Biology
and Tumor Angiogenesis, Center for Biomedicine and Medical Technology, GERMANY

Identification Of Molecular Interactions Between Wnt11 Non-Canonical Signaling Pathway And L-Type Calcium Channel
K.* Csalyi; T.* Rharass; E. Klussmann; D. Panakova
*equally contributed, Max Delbrueck Center for Molecular Medicine, GERMANY

Zebrafish Mespaa Regulates MiR-430 Expression And Initiates Cardiac Laterality
C Doganli1; M Sandoval1; M Baalbaki1; J Lee1; S Thomas2; Do Hart1
1University of California, San Francisco, UNITED STATES;
2The Gladstone Institutes, UNITED STATES

Intestinal Tissue Factor Expression In Zebrafish
Ebru Emekli-Alturfan1; U.V. Ustundag1; F.D. YazıCı1; H. Hazineci1;
E. Caliskan-Ak1; N. Emekli2
1Marmara University, TURKEY; 2Istanbul Medipol University, TURKEY

Molecular Causes Of Hypoplastic Left Heart Syndrome
A Felker; N Samson; H Lindsay; A Burger; Md Robinson; C Mosimann
University of Zurich, SWITZERLAND

Differentiation Of The Vascular Endothelial Cells In The Developing Zebrafish
Misato Fujita1; E Saito2; S Isogai3
1Department of Life Sciences, Toyo University, JAPAN; 2Hirosaki University,
JAPAN; 3Iwate Medical University, JAPAN

S1P-Yap1 Signaling Regulates Endoderm Formation Required For Cardiac Precursor Cell Migration In Zebrafish
Hajime Fukui; Shigetomo Fukuhara; Naoki Mochizuki
Department of Cell Biology, National Cerebral and Cardiovascular Center Research Institute, JAPAN
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<td>1MPI for Heart and Lung Research, GERMANY; 2Academical Medical Centre, University of Amsterdam, the Netherlands, NETHERLANDS; 3Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany, GERMANY; 4Division of Cardiology, Department of Medicine, CVRI, University of California, San Francisco, CA, U, UNITED STATES; 5Institut de Biologie et de Médecine Moléculaires (IBMM), Université Libre de Bruxelles, 6041 Gosseli, BELGIUM; 6Department of Medicine III, Cardiology, Heidelberg University Hospital, 69120 Heidelberg, Germany, GERMANY</td>
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Loss Of Trap230/Med12 Leads To Defective Heart Valve Formation In Zebrafish

Julia Segert¹; Wolfgang Rottbauer²; Steffen Just²
¹Molecular Cardiology, Internal Medicine 2, GERMANY; ²Uniklinik Ulm, GERMANY

PCP-driven Cardiac Remodeling Couples Changes In Actomyosin Tension With Myocyte Differentiation

M. Swinarski¹; A. Merks¹; A.M. Meyer¹; S. Donat²; S. Abdelilah-Seyfried²; D. Panáková¹
¹Max-Delbrück-Centrum für Molekulare Medizin, Berlin, GERMANY; ²Institute for Biochemistry and Biology, Animal Physiology, University Potsdam, GERMANY

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Thomas Whitesell; S.J. Childs
University of Calgary, CANADA

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Elke Muth-Köhne¹; M. Teigeler¹; V. Schiller¹; J. Brückner²; S. Konradi²; K. Westphal-Settele¹; M. Fenske¹; C. Schäfers¹
¹Fraunhofer IME, GERMANY; ²UBA, GERMANY

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M. Den Hoed¹; Mkvv Bandaru²; P. Ranefall³; A. Emmanouilidou¹; L. Tao⁴; A. Larson⁵; J. Ledin⁶; C. Wahlby⁵; E. Ingelsson⁶
¹Uppsala University, SWEDEN; ²Department of Medical Sciences, Molecular Epidemiology and SciLifeLab, Uppsala University, SWEDEN; ³Department of Information Technology, Division of Visual Information and Interaction, SciLifeLab, Up, SWEDEN; ⁴Department of Medical Sciences, Molecular Epidemiology and SciLifeLab, Uppsala University, Uppsala, SWEDEN; ⁵Department of Medical Sciences, Biochemical structure and function, Uppsala University, Uppsala, SWEDEN; ⁶Department of Organismal Biology, Evolutionary and Developmental Biology, Uppsala University, Uppsala, SWEDEN

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F. AzuaJe¹; S. Rodius¹; O. AndrosOva¹; S. MerZ¹; I. CresPo²; P. NazaroV³; M. Ibberson⁴; N. De Klein⁴; C. JeanTe⁴; J.M. Gonzalez-Rosa⁴; A. Muller³; F. Bernardin³; S.P. Niclou¹; L. Vallar³; N. Mercader³; I. Xenarios²
¹LIH Luxembourg Institute of Health, NorLux Neuro-Oncology Laboratory, LUXEMBOURG; ²SIB Swiss Institute of Bioinformatics Lausanne, Vital-IT Systems Biology Division, SWITZERLAND; ³LIH Luxembourg Institute of Health, Genomics Research Unit, LUXEMBOURG; ⁴Massachusetts General Hospital and Harvard Medical School, Cardiovascular Research Center, UNITED STATES; ⁵CNIC Centro Nacional de Investigaciones Cardiovasculares Carlos III Madrid, Department of Cardiovasc, SPAIN

Stepwise Genetic Ablation Of The Neural Crest And Single Embryo Transcriptomic Sequencing Give New Insights Into The Crest Gene Regulatory Network.

Christopher Dooley; N. Wali; J. E. Collins; I. Sealy; R. J. White; R. N. W. Kettleborough; S. Carruthers; I. Brocal; D. L. Stemple; E. M. Busch-Nentwich
Wellcome Trust Sanger Institute, UNITED KINGDOM
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Christelle Etard¹; O Armant²; U Roostalu³; M Ferg⁴; U Strähle⁴
¹Karlsruher Institut für Technologie, Institut für Toxikologie und Genetik, GERMANY; ²Karlsruher Institut für Technologie, GERMANY; ³University of Manchester, UNITED KINGDOM; ⁴Karlsruher Institut für Technologie, GERMANY

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W.A. Sassen¹; G. Rosso²; S. Wargenau¹; S. Duebel³; R.W. Koester¹
¹Division of Cellular and Molecular Neurobiology, Zoological Institute, Braunschweig University of Te, GERMANY; ²Department of Biotechnology, Institute for Biochemistry, Biotechnology and Bioinformatics, Braunschweig, GERMANY

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Wellcome Trust Sanger Institute, UNITED KINGDOM

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S Sugunan¹; A Sokol²; P Chroscicki³; M Bazala³; A Chacinska³; C Winata¹
¹International Institute for Molecular and Cell Biology, Warsaw and Max-Planck Institute for Heart and, POLAND; ²International Institute for Molecular and Cell Biology, Warsaw, POLAND

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Dept. Biol., Grad. Sch. Sci., Kobe Univ., JAPAN

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National University of Singapore, SINGAPORE

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Tjakko Van Ham¹; N. Oosterhof¹; I Holtman²; H. Van Der Linde¹; L. Kuil¹
¹Dept of Clinical Genetics, Erasmus MC, Rotterdam, NETHERLANDS; ²Dept of Neuroscience, UMC Groningen, NETHERLANDS

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Jan de Sonneville¹; WJ Veneman¹; HJ Jansen³; V Torraca²; W van der Ent³; R Marin-Juez²; Chao Cui²; MI Wiwege²; A Ordas³; WP Leenders⁴; RP Dirks³; AH Meijer³; BE Snaar-Jagalska³; HP Spink²
¹life science methods bv, NETHERLANDS; ²Leiden University, NETHERLANDS; ³ZF-screens, NETHERLANDS; ⁴LUMC, NETHERLANDS

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F Smet¹; R Bongaarts¹; M Malinouski²; E Davis³; D Kokel⁴
¹Union Biometrica, BELGIUM; ²Union Biometrica, UNITED STATES; ³Duke University, UNITED STATES; ⁴MGH Harvard Medical School, UNITED STATES
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Y Tonomura; Y Kato; H Hanafusa; C Kondo; K Nishimura; T Fukushima; M Ueno Shionogi & Co., Ltd., JAPAN

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Kunal Chopra1; B Simoes2; M Garcia Romero1; R Kelsh2; H Roehl1
1University of Sheffield, UNITED KINGDOM; 2University of Bath, UNITED KINGDOM

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JA Davis; A Lubert; S Palencia-Desai; S Sumanas Cincinnati Children's Hospital Medical Center, UNITED STATES

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Johanna Djian-Zaouche1; J.S. Joly2
1CNRS, FRANCE; 2TEFOR, CNRS, Neuroscience Paris-Saclay Institute (Neuro-PSI), FRANCE

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Raman Sood; B Carrington; G Varshney; K Bishop; A Prakash; Mp Jones; S Burgess National Institutes of Health, UNITED STATES

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T. Thumberger; M. Stemmer; M. Del Sol Keyer; J. Wittbrodt; J. L. Mateo Centre for Organismal Studies (COS), Heidelberg University, GERMANY

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Rebecca Anderson1; E. E. LeClair2; J. M. Topczewskas2; J. Topczewskisi3
1Northwestern University Feinberg School of Medicine, UNITED STATES; 2DePaul University, UNITED STATES; 3Northwestern University Feinberg School of Medicine/Stanley Manne Children's Research Institute, UNITED STATES

Making CRISPR/Cas9 Mutants
Richard White; I. Brocal; A. Hall; C. M. Dooley; I. Sealy; E. M. Busch-Nentwich; R. N. W. Kettleborough; D. L. Stemple Wellcome Trust Sanger Institute, UNITED KINGDOM
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Jose Daniel Aroca-Aguilar1; J.J. Ferre-Fernández2; S Alexandre1;
J.M. Bonet-Fernández1; C.D. Méndez-Hernández2; L. Morales2; J. García-Feijoo2; J. Escribano1
1Human Genetics Lab., University of Castilla-La Mancha / IDINE, Albacete, SPAIN;
2Ophthalmology Dept., San Carlos Hospital, Madrid, SPAIN

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L. Brunt; K Roddy; R Skinner; E Rayfield; C Hammond
University of Bristol, UNITED KINGDOM

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PJ Gavaia1; A Pereira2; A Grenha1; G Martins2; LEC Conceição1; S Rodrigues3; W Pinto4; ML Cancela5; J Dias4
1Centre of Marine Sciences [CCMAR], Faro, PORTUGAL; 2Centre of Marine Sciences, Universidade do Algarve, Faro, PORTUGAL; 3Faculty of Sciences and Technology, Universidade do Algarve, Faro, PORTUGAL; 4Sparos Lda, Área Empresarial de Marim, Olhão, PORTUGAL; 5Department of Biological Sciences and Medicine, Universidade do Algarve, Faro, PORTUGAL

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J. Habicher1; G.K. Varshney2; P.E. Ahlberg1; S.M. Burgess2; J. Ledin1
1Department of Organismal Biology, Uppsala University, SWEDEN;
2Translational and Functional Genomics Branch, National Human Genome Research Institute, National Ins, UNITED STATES

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H Önsbring Gustafson; T Haitina
Department of Organismal Biology, Science for Life Laboratory, Uppsala University, SWEDEN

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Jeffrey Jenkin Kelu1; H.L.H. Chan2; S.E. Webb1; A.H.H. Cheng1; M. Ruas2; J. Parrington2; A. Galione2; A.L. Miller1
1The Hong Kong University of Science and Technology, HONG KONG, CHINA PR;
2The University of Oxford, UNITED KINGDOM

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Aurélie Landemaine; Jerôme Bugeon; Pierre-Yves Rescan; Jean-Charles Gabillard
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E.E. Leclair1; R.M. Dale2
1DePaul University, UNITED STATES; 2Loyola University Chicago, UNITED STATES

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E Molinari1; H Ando2; T Lopardo1; T Ito2; H Handa2; L Guerrini1
1University of Milan, ITALY; 2Tokyo Medical University, JAPAN
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Wellcome Trust Sanger Institute, UNITED KINGDOM

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Reynolds Scott¹; K. Robson Brown²; A.J. Hayes³; C. Hammond¹
¹School of Physiology and Pharmacology, University of Bristol, UNITED KINGDOM; ²School of Arts, University of Bristol, UNITED KINGDOM; ³Cardiff School of Biosciences, Cardiff University, UNITED KINGDOM

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Joanna Smeeton¹; A Askary¹; N Ellis²; I Braasch³; J Postlethwait³; CT Miller²; G Crump¹
¹University of Southern California, UNITED STATES; ²UC Berkeley, UNITED STATES; ³University of Oregon, UNITED STATES

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Camilla Teng; G. Crump; R. Maxson
University of Southern California, UNITED STATES

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¹Center for Medical Genetics, Ghent University, Ghent, BELGIUM; ²Department of Biology, Ghent University, Ghent, BELGIUM; ³Department of Molecular Medicine, Biochemistry Unit, University of Pavia, Pavia, ITALY; ⁴VIB Department of Medical Protein Research, Department of Biochemistry, University Ghent, Ghent, BELGIUM

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A. Willaert¹; C.A. Gistelinck¹; P. Simoens¹; S. Symoens¹; C. Vanhove²; F. Malfait¹; A. De Paepe¹; P. Coucke¹
¹Center for Medical Genetics, Ghent University, Ghent, BELGIUM; ²Department of Electronics and information systems, University Ghent, Ghent, BELGIUM

How MiRNAs Shape Bone Formation In The Zebrafish
N. Wittkopf¹; E. Berezikov²; L. J. Kaaij³; S. Schulte-Merker³; S. Van Der Elst³; R. F. Ketting³
¹Institute of Molecular Biology (IMB), GERMANY; ²European Research Institute for the Biology of Aging (ERIBA), NETHERLANDS; ³Institut für kardiovaskuläre Organogenese und Regeneration, GERMANY; ⁴Hubrecht Institute for Developmental Biology and Stem Cell Research, NETHERLANDS

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Elodie De Job¹; P. Affaticati¹; L. Rivière¹; N. De Croze²; M. Léonard²; J.S. Joly¹; A. Jenett¹
¹TEFOR CORE FACILITY, CNRS Neuroscience Paris-Saclay Institute (Neuro-PSI), FRANCE; ²Environmental Research Department, L’Oréal Research & Innovation, FRANCE

Confined Primed Conversion Enables Highlighting Single Cells In Complex Systems
Hanyu Qin¹; William P. Dempsey²; Lada Georgieva¹; Patrick M. Helbling¹; Ali Y. Sonay¹; Thai V. Truong²; Michel Haffner¹; Periklis Pantazis¹
¹Department of Biosystems Science and Engineering (D-BSSE), Eidgenössische Technische Hochschule (ET), SWITZERLAND; ²Department of Molecular and Computational Biology, University of Southern California, Los Angeles, C, UNITED STATES
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1Imperial College, UNITED KINGDOM; 2University College London, UNITED KINGDOM

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High-resolution 3D Imaging Of Whole Zebrafish Ovary. P1-089
M Frétaud1; S Gay1; JJ Lareyre1; E De Job2; P Affaticati2; JS Joly2; V Thermes1
1INRA, FRANCE; 2CNRS, FRANCE

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Jan de Sonneville1; WJ Veneman2; KJ Kolk2; A Ordas3; Z Al-Ars3; AH Meijer2; HP Spaink2
1Life Science Methods bv, NETHERLANDS; 2Leiden University, NETHERLANDS; 3TUDelft, NETHERLANDS

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M. A. Bazala; A. M. Sokol; A. Chacinska
Laboratory of Mitochondrial Biogenesis, International Institute of Molecular and Cell Biology in War, POLAND

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Sarah Pelan; J Collins; W Chow; K Howe
Wellcome Trust Sanger Institute, UNITED KINGDOM

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Joanna Collins; S Pelan; K Howe; J Wood
Wellcome Trust Sanger Institute, UNITED KINGDOM

15:00 - 17:00 Room: Hall A
ORAL I - Omics
Chairs: Shawb Burgess, Ferenc Müller

15:00 Resolving The Cellular Hierarchy Of Thrombocyte Lineage Development Using Single Cell RNA-Seq O-I-1
I Macaulay1; C Labalette2; V Svensson1; L Ferreira2; F Hamey1; S Teichmann1; A Cvejic2
1Wellcome Trust Sanger Institute, UNITED KINGDOM; 2European Bioinformatics Institute, UNITED KINGDOM

Elisabeth Busch-Nentwich; J. E. Collins; N. Wali; I. Sealy; C. M. Dooley; C. Scailhi; R. J. White; S. Carruthers; Z. Pusztai; I. Brocal; R. Clark; A. Hall; P. Clarke; S. Fitzgerald; R. Gibbons; R. N. W. Kettleborough; D. L. Stemple
Wellcome Trust Sanger Institute, UNITED KINGDOM
15:30 Pharmacological Restoration Of Visual Function In A Blind Zebrafish
Mutant Following Hdac Inhibitor (hdaci) Treatment 0-I-3
C Daly; E Dillon; D Duffy; G Cagney; Breandán Kennedy
University College Dublin, IRELAND

15:45 TRAWLER For De Novo DNA-motif Discovery In Regulatory Regions
Of Fish Genomes 0-I-4
M Ramialison1; LTC Dang1; J Revote2; HMH Chiu1
1Australian Regenerative Medicine Institute, AUSTRALIA; 2Monash University, AUSTRALIA

16:00 Maternal Control Of Development: Translational Regulation Of
Maternal Transcripts 0-I-5
C.L. Winata1; C. Vaz2; L. Pryszzcz3; S. Nama4; M.H. Ismail5; M. Lapinski5;
V. Tanavde6; P. Sampath6; S. Mathavan6
1International Institute of Molecular and Cell Biology, Poland; Max-Planck Institute for
Heart and Lu, POLAND; 2Bioinformatics Institute, SINGAPORE; 3International Institute of
Molecular and Cell Biology; Max-Planck Institute for Heart and Lung Resea, POLAND;
4Institute of Medical Biology, SINGAPORE; 5Nanyang Technological University, Genome
Institute of Singapore, SINGAPORE

16:15 Identification Of Novel Ovarian Predominant MiRNAs In Medaka
(Oryzias Latipes) 0-I-6
A Bouchareb; A Le Cam; J Montfort; S Gay; T Nguyen; J Babe; V Thermes
INRA, UR1037 Fish Physiology and Genomics, FRANCE

16:30 From Genomics To Novel Gene Functions In Zebrafish 0-I-7
Andrea Pauli; AF Schier
Harvard University, UNITED STATES

16:45 Comparative Transcriptomic Analysis Of The Distinct Pancreatic Cell Types 0-I-8
Bernard Peers; E. Tarifeno; A Lavergne; K Padamata; A Bernard; M Voz; I Manfroid
University of Liège, BELGIUM

15:00 - 17:00 Room: Hall B
ORAL II - New Technologies & Imaging
Chairs: Johan Ledin, Jan Huisken

15:00 The ZCre Project: Cre/lox Transgenic Tools In Zebrafish 0-II-1
B Simões1; K Chopra2; A Gesell3; A Jacinto3; P Martin3; R Patient4; E Patton4;
M Placzek5; S Wilson1; HH Roehl3; RN Kelsh1
1Department of Biology and Biochemistry, University of Bath, UNITED KINGDOM;
2Department of Biomedical Science, The University of Sheffield, UNITED KINGDOM;
3CEDOC, Instituto Gulbenkian de Ciência, PORTUGAL; 4Departments of Biochemistry and
Physiology, School of Medical Sciences, University of Bristol, UNITED KINGDOM;
5Weatherall Institute of Molecular Medicine, University of Oxford, UNITED KINGDOM;
6MRC Human Genetics Unit MRC IGM, University of Edinburgh Western General Hospital,
UNITED KINGDOM; 7Department of Cell and Developmental Biology, University College of
London, UNITED KINGDOM

15:15 A Conditional Rescue Approach To Investigate The Role Of Cilia In
The Vasculature 0-II-2
Stone Elworthy; H. H. Roehl; J Malicki; T
ChicoUniversity of Sheffield, UNITED KINGDOM
MONDAY

15:30 Crispants: Saturating Somatic Mutagenesis With Active, Fluorescent CRISPR-Cas9 Ribonucleoprotein Complexes In Zebrafish. O-II-3
A. Burger1; H. Lindsay2; A. Felker1; J. Zaug1; C. Hess1; C. Anders3; L. M. Weber2; R. Catena1; N. E. Samson1; M. Jinek3; M. D. Robinson2; Christian Mosimann1
1Institute of Molecular Life Sciences, University of Zürich, CH-8057 Zürich, Switzerland, SWITZERLAND; 2Institute of Molecular Life Sciences, SIB Swiss Institute of Bioinformatics, University of Zurich, C, SWITZERLAND; 3Institute of Biochemistry, University of Zürich, CH-8057 Zürich, Switzerland, SWITZERLAND

15:45 Clonal Analysis Of Gene Loss-of-function Via A Novel Cas9/Cre-based Strategy O-II-4
Flavia De Santis1; V Di Donato1; To Auer1; N Testa1; H Sánchez-Iranzo2; N Marcader2; Jp Concordet3; F Del Bene1
1Institut Curie, FRANCE; 2Centro Nacional de Investigaciones Cardiovasculares (CNIC), SPAIN; 3Museum National d’Histoire Naturelle, FRANCE

16:00 Munch's SCREAM And Analysis On Neural Circuits Controlling Stereotyped Pectoral Fin And Axial Movements Using Multi-stepped Optogenetics O-II-5
Kohei Hatta1; M. Itoh2
1Graduate School of Life Science, University of Hyogo, JAPAN; 2Graduate School of Life Science, University of Hyogo, JAPAN

16:15 Optobow: All-optical Mapping Of Excitatory Connections In The Zebrafish Brain O-II-6
Herwig Baier; D. Foerster; M. Dal Maschio
Max Planck Institute of Neurobiology, GERMANY

16:30 Label-Free Imaging Of Lipids In Zebrafish Adipocytes By Stimulated Raman Scattering Microscopy O-II-7
M.J. Den Broeder1; M.J.B. Moester1; P. Cenijn1; F. Ariese2; J.F. De Boer2; L.M. Kamminga3; J Legler1
1Institute for Environmental Studies, VU University Amsterdam, NETHERLANDS; 2Institute for Lasers, Life and Biophotonics Amsterdam, Department of Physics and Astronomy, VU Unive, NETHERLANDS; 3Department of Molecular Biology, Faculty of Science, Radboud Institute for Molecular Life Sciences, NETHERLANDS

16:45 Tools For Dynamic Imaging Of Neural Regeneration In Vivo. O-II-8
Fz Zhu1; Dw Wlodkowic1; Timo Friedrich2; Jk Kaslin2
1RMIT, AUSTRALIA; 2Australian Regenerative Medicine Institute, AUSTRALIA

15:00 - 17:00 Room: Hall C
ORAL III - Husbandry
Chairs: Stefan Schulte-Merker, Frederic Sohm

15:00 Guidelines Proposed For Zebrafish Housing, Husbandry And Health Monitoring Recommendations O-III-1
Peter Aleström1; Livia D’Angelo2; Paul J. Midtlyng3; Daniel F. Schorderet4; Stefan Schulte-Merker4; Frederic Sohm5; Susan Warner6
1Department of Basic Science and Aquatic Medicine Department, Norwegian University of Life Science, NORWAY; 2Dept of Veterinary Medicine and Animal Productions, University of Naples Federico II, ITALY; 3Norwegian University of Life Sciences, Faculty of Veterinary Medicine and Biosciences, NORWAY; 4Institute for Research in Ophthalmology, University of Lausanne and Ecole polytechnique fédérale de, SWITZERLAND; 5WWU Münster, Faculty of Medicine, GERMANY; 6CNRS, UMS 3504 AMAGEN; INRA, UMS 1374, AMAGEN, FRANCE; 7Karolinska Institute, Comparative Medicine, SWEDEN
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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tr>
<td>15:30</td>
<td>SOP Of Medaka Husbandry And Special Reference To See-through Medaka</td>
<td>Shin-Ichi Chisada; K Naruse</td>
<td>National Institute for Basic Biology, JAPAN</td>
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<td>15:45</td>
<td>A Scalable Health Standard For The Zebrafish Research Community</td>
<td>Zoltan Varga¹; Kathy Snell²; Katy Murray¹</td>
<td>¹University of Oregon, Zebrafish International Resource Center, UNITED STATES; ²University of Oregon, UNITED STATES</td>
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<tr>
<td>16:00</td>
<td>Optimized Cryopreservation And Thawing Methods For Community And Resource Center Use</td>
<td>Zoltan Varga¹; J Matthews¹; C Carmichael¹; H Yang²; A Guitreau²; L Torres²; J Murphy¹; T Tiersch²; M Westerfield¹</td>
<td>¹University of Oregon, Zebrafish International Resource Center, UNITED STATES; ²Aquatic Germplasm and Genetic Resources Center, Louisiana State University Agricultural Center, Bato, UNITED STATES</td>
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<tr>
<td>16:15</td>
<td>The Importance Of Accurate Reporting Of Environmental And Husbandry Conditions For Zebrafish Studies</td>
<td>Christian Lawrence</td>
<td>Boston Children’s Hospital, UNITED STATES</td>
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<td>16:30</td>
<td>Different Feeds And Feeding Regimens Have An Impact On Zebrafish Larval Rearing And Breeding Performance</td>
<td>Ana Catarina Certal; M Farias</td>
<td>Champalimaud Foundation, PORTUGAL</td>
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17:00 - 18:00 POSTERS AND DRINKS
19:00 - 20:30 RECEPTION AT OSLO CITY HALL
**TUESDAY, JUNE 30, 2015**

**08:00 - 09:00  Room: Plenary hall - Hall A**

**Keynote 2**  
*Chairs: Zhiyuan Gong, Gareth Griffiths*

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<th>Event</th>
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<tr>
<td>08:00</td>
<td>Finding Therapeutics Using The Zebrafish</td>
<td></td>
<td>Leonard Zon, Boston Children's Hospital, UNITED STATES</td>
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**09:00 - 09:30  Room: Plenary hall - Hall A**

**Invited plenary 6 - This lecture is sponsored by Norwegian Society for Microbiology**

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<th>Time</th>
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<th>Location</th>
<th>Speaker(s)</th>
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<tr>
<td>09:00</td>
<td>Using The Zebrafish To Understand Tuberculosis</td>
<td></td>
<td>David Tobin, Duke University School of Medicine, UNITED STATES</td>
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<tr>
<td>09:30 - 09:30</td>
<td>All roads lead to Rome: Multiple paths to tuberculous granuloma necrosis</td>
<td></td>
<td>Antonio J. Pagan, Chao-Tsun Yang, James Cameron, Laura E. Swaim, Felix Ellett, Graham J. Lieschke, and Lalita Ramakrishnan, UK, USA</td>
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**10:00 - 10:30  Room: Plenary hall - Hall A**

**Invited plenary 7**

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<th>Speaker(s)</th>
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<tr>
<td>10:00</td>
<td>Decoding The Molecular Cues That Regulate HSC Specification.</td>
<td></td>
<td>David Traver, Isao Kobayashi, Albert D. Kim, Chase Melick, Raquel Espin Palazon, Wilson K. Clements, Jingjing Sun University of California at San Diego, UNITED STATES</td>
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**10:30 - 11:00  Room: Plenary hall - Hall A**

**Invited plenary 8**

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**11:00 - 11:30  Room: Plenary hall - Hall A**

**Invited plenary 9**

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<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Speaker(s)</th>
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<tr>
<td>11:00</td>
<td>Host-virus Interactions In Zebrafish</td>
<td></td>
<td>Jean-Pierre Levraud, G Passoni, E Aleksejeva, V Briolat, N Palha, C Langevin, P Herbomel, P Boudinot</td>
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1. www.zebrafish2015.org
11:30 - 12:00  Room: Plenary hall - Hall A

Invited plenary 10 - This lecture is sponsored by Norwegian Biochemical Society

11:30  Neuroleptics For ALS  IP-10
P Drapeau
University of Montréal, CANADA

12:00 - 13:00  LUNCH AND EXHIBITION  ROOM: FOYER

13:00 - 14:00  Room: Møller

Posters II (even)

Evaluation Of Zebrafish Embryos As A Model To Study The Pathogenesis Of The Opportunistic Pathogen Cronobacter Turicensis  P2-002
A. Fehr; A. K. Eshwar; S. C. F. Neuhauß; M. Ruetten; A. Lehner; L. Vaughan
University of Zurich, SWITZERLAND

Direct Visualization Of Behavior And Efficacy Of Biodegradable Nanoparticles Against Tuberculosis In Zebrafish Embryos  P2-004
Federico Fenaroli¹; H. Høgset¹; J. Benjaminsen²; S. Bagherifam¹; J. Hildahl¹; G. Griffiths¹
¹University of Oslo, NORWAY; ²EMBL Heidelberg, GERMANY

Adequate Th2-Type Response Associates With Restricted Bacterial Growth In Latent Mycobacterial Infection Of Zebrafish  P2-006
M.M. Hammarén; K.E. Oksanen; H.M. Nisula; B.V. Luukinen; M. Pesu; M. Rämet; M. Parikka
BioMediTech, University of Tampere, FINLAND

Analysis Of The Innate Immune Response In Zebrafish Upon Chlostridium Difficile Infection  P2-008
J. Li; K. Namikawa; R.W. Käster
Division of Cellular and Molecular Neurobiology, Zoological Institute, TU Braunschweig, Germany, GERMANY

Protective Immune Response To Tuberculosis In The Zebrafish Infection Model  P2-010
H.M. Luukinen; M.M. Hammarén; M. Parikka
BioMediTech, University of Tampere, FINLAND

In Vivo Dynamics Of Anti-Salmonella Autophagy  P2-012
Samrah Masud; Annemarie H.Meijer
University of Leiden., NETHERLANDS

Mycobacterial Reactivation Model In Adult Zebrafish  P2-014
Henna Myllymäki; M Niskanen; K Oksanen; M Ahava; M Rämet
University of Tampere, BioMediTech, FINLAND

Genes Affecting Host Response Against Mycobacteria In Zebrafish (Danio Rerio)  P2-016
Markus Ojanen; Sk Harjula; K Oksanen; H Myllymäki; C Bauerlein; M Rämet
BioMediTech, University of Tampere, FINLAND

A Forward Genetic Screen For Zebrafish Genes Involved In Pneumococcal Infection  P2-018
Anni Saralahti¹; J. Jouppila¹; S-K. Harjula²; M. Parikka¹; S. Rounioja²; M. Rämet¹
¹BioMediTech, University of Tampere, FINLAND; ²Fimlab Laboratories, FINLAND
A Zebrafish Infection Model For Studies Of Salmon Rickettsial Syndrome
Julia Isabel Tandberg; L Lagos; H Winther-Larsen
University of Oslo, NORWAY

Common And Specific Downstream Signaling Targets Controlled By Tlr2 And Tlr5 Innate Immune Signaling In Zebrafish
Shuxin Yang1; R. Marín-Juez2; A.H. Meijer1; H.P. Spaink1
1Leiden University/IBL, NETHERLANDS; 2Max Planck Institute for Heart and Lung Research, GERMANY

Spontaneous Targeting Of Mucosal Antigen-Presenting Cells By Biodegradable And Surfactant Free Poly(lactic Acid) Nanoparticles In Adult Zebrafish
J. Rességuier1; E. Delaune1; Jp. Levrard1; P. Boudinot2; Al. Coolen1; D. Le Guellec1; B. Verrier1
1CNRS/University of Lyon 1 - Institut de Biologie et Chimie des Protéines - LBTI - UMR 5305 - Lyon, FRANCE; 2CNRS - Institut Pasteur - Macrophage et Développement de l’Immunité - UMR 2578 - Paris, FRANCE; 3Institut National de la Recherche Agronomique - Virologie et Immunologie Moléculaire - Jouy-en-Josas, FRANCE

Effect Of Embryonic Temperature On The Innate Immune Response Of Zebrafish (Danio Rerio)
Q. Zhang1; M. Bogdanova1; P. Pereiro2; B. Novoa2; I. Babiak1; J. Fernandes1
1University of Nordland, NORWAY; 2Institute of Marine Research-CSIC, SPAIN

Circadian Effect Of MTX In Zebrafish Toxicity And Proliferation
Veronica Akle; Arianna Minuche
Universidad de los Andes, COLOMBIA

Screening Of Anticancer Activity And In Vivo Toxicity Of Novel Indole-benzimidazole Ethylsulfonyl Derivatives
Z Ates-Alaqoz1; M. Yaman1; F Zengin1; T Baydin1; O Konu2
1Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Ankara University, TURKEY; 2Department of Molecular Biology and Genetics, Faculty of Science, Bilkent University, TURKEY

Leptin Receptor Knockout Medaka Exhibit Hyperglycemia And Impaired Insulin Secretion
Shin-Ichi Chisada1; Y Taniguchi2; T Andoh3; J Stolper4; Y Yoshiura5; Y Kamei1; K Naruse1
1National Institute for Basic Biology, JAPAN; 2Kyorin University, JAPAN; 3Seikai National Fisheries Research Institute, JAPAN; 4Heidelberg University, GERMANY; 5National Research Institute of Fisheries and Enhancement of Inland Sea, JAPAN

Investigating The Role Of Dystrophin As A Tumor Suppressor And Therapeutic Target For Pediatric Rhabdomyosarcoma
A. Davidson1; D. Mostafa1; H. Gonorazky1; E. Chen2; J. Dowling1
1Hospital for Sick Children, CANADA; 2University of Washington, UNITED STATES

Zebrafish Embryos As A Model To Assess Oncolytic Viruses And Their Interactions With The Tumour Microenvironment
Naomi De Silva1; E Boudreau1; L Li1; L Lambein2; S Tazzyman2; K Ottolino-Perry1; C Lewis4; J Fish1; JA McCart1
1Toronto General Research Institute - University Health Network, CANADA; 2Department of Oncology, University of Sheffield, UNITED KINGDOM
Zebrafish Chemical Screen To Identify RXR-γ Specific Agonists For The Treatment Of Multiple Sclerosis
J. Early1; C. Ffrench-Constant2; R. J. M. Franklin3; D. A. Lyons1
1Centre for Neuroregeneration, The University of Edinburgh, UNITED KINGDOM; 2MRC Centre for Regenerative Medicine, The University of Edinburgh, UNITED KINGDOM; 3Wellcome Trust-MRC Cambridge Stem Cell Institute, University of Cambridge, UNITED KINGDOM

The Effects Of Cinacalcet And Paricalcitol In The Skeleton Of A Zebrafish Model Of Diabetes
PJ Gavaia1; F Carvalho1; A Pimentel2; PL Neves2; ML Cancela3
1Centre of Marine Sciences (CCMAR), Faro, PORTUGAL; 2Centro Hospitalar do Algarve, Nephrology Service, Faro, PORTUGAL; 3Dept Biomedical Sciences, University of Algarve, Faro, PORTUGAL

In Silico And In Vivo Analysis Of Erythropoietin Using Zebrafish Embryos As Animal Model
Michela Guarienti1; E. Giacopuzzi; A. Gianoncelli; S. Sigala; M. Memo
UNIVERSITY OF BRESCIA - Department of Molecular and Translational Medicine, ITALY

Stealth Properties Of Nanoparticles Against Cancer: Using Nanoparticles For Passive Targeting To Human Cancer Tissue In Zebrafish Embryos
Patrick Johansen1; L Evensen1; G Koster1; F Fenaroli1; G Mælandsmo2; L Prasmickaitė2; E Snaar-Jagalska3; M Speth1; S Fam1; Z Kaizheng1; L Herfindal3; G Griffths1
1Institute of Biosciences, University of Oslo, Oslo, NORWAY; 2Department of Tumor Biology, The Norwegian Radium Hospital, Oslo, NORWAY; 3Institute of Biology Leiden, Leiden University, Leiden, NETHERLANDS; 4Institute of Chemistry, University of Oslo, Oslo, NORWAY; 5Department of Biomedicine, University of Bergen, Bergen, NORWAY

A Zebrafish Model Of Demyelination And Remyelination
Marja Karttunen1; M Goedhart1; T Czopka2; D A Lyons1
1University of Edinburgh, UNITED KINGDOM; 2Technische Universität Munchen, GERMANY

Diabetic Pdx1-mutant Zebrafish Show Conserved Responses To Nutrient Overload And Anti-glycemic Treatment
R. Kimmel1; S. Dobler; T. Walsen; N. Schmitner; D. Meyer
University of Innsbruck, AUSTRIA

Conserved Pharmacological Rescue Of Hereditary Spastic Paraplegia-related Phenotypes Across Simple Model Organisms
Alexandra Lissouba1; C Julien2; S Madabattula3; J Strautman4; J O’Sullivan4; A Bysice5; G Bouleau5; P Drapeau5; Ja Parker2; Fv Bolduc3
1CRCHUM and Department of Neuroscience, Université de Montréal, Montréal, Québec, Canada, CANADA; 2CRCHUM and Department of Neuroscience, Université de Montréal, Montréal, Québec, CANADA; 3Institute for Neuroscience and Mental health and Department of Pediatrics, University of Alberta, Ed, CANADA; 4Institute for Neuroscience and Mental health, University of Alberta, Edmonton, Alberta, CANADA; 5Neurological Institute and Hospital, McGill University, Montreal, Quebec, CANADA

The Zebrafish Model Of CLN2 Disease (Late Infantile Neuronal Ceroid Lipofuscinosis): A Good Model For Anti-epileptic Drug Testing
Rebeca Martín-Jiménez1; A Zdebik2; F Mahmood3; A Au4; J Cooke1; C Russell1; M Campanella1
1Royal Veterinary College, UNITED KINGDOM; 2Royal Free Hospital, University College London, UNITED KINGDOM; 3Royal Stoke University Hospital, UNITED KINGDOM
Using Zebrafish To Investigate The Synergistic Inhibition Of Focal Adhesion Kinase And Aurora Kinases On Ewing Sarcoma Proliferation And Metastasis  
P2-056  
Nicole Melong1; Cj Veinotte1; B Crompton2; G Dellaire3; K Stegmaier4; Jn Berman1  
1IWK Health Centre, Berman Zebrafish Lab, CANADA; 2Department of Pediatric Oncology, Dana-Farber Cancer Institute, Boston, Massachusetts, UNITED STATES; 3Department of Pathology, Dalhousie University, CANADA; 4Department of Pediatric Oncology, Dana-Farber Cancer Institute; Broad Institute of Massachusetts, Ins, UNITED STATES

Assessing The Teratogenic Potential Of Thalidomide In Zebrafish Embryos  
P2-058  
Annelii Ny1; C Ranieri1; M ŚLędzik1; J Maes1; N De Croze2; M Léonard2; P De Witte1  
1Laboratory for Molecular Biodiscovery, University of Leuven, BELGIUM; 2L’OREAL Advanced Research, Environmental Research Department, Aulnay-sous-Bois/Paris, FRANCE

Drug Pooling To Enhance Phenotype-based Discovery Of Anti-Angiogenic Drugs In Zebrafish  
P2-060  
N Ohnesorge; T Sasore; S Merrigan; X Wang; A Reynolds; B Kennedy  
University College Dublin, IRELAND

Chemical Genetic Screens In C. Elegans And Zebrafish Models Of ALS  
P2-062  
S Patten1; G Armstrong1; A Vacarro1; D Aggad1; C Maios1; E Kabashi2; Ja Parker1; P Drapeau1  
1University of Montreal Hospital Research Centre (CRCHUM), CANADA; 2ICM Institute, FRANCE

Temperature And Number Of Injected Cells As Important Factors For Zebrafish Cancer Cell Xenotransplantation Assays  
P2-064  
P. Cabezas1; M.J. Carreira2; R. López2; J. Guerra2; J. Mariscal2; L. Sánchez2; M. Abal2  
1Genetics Department, Veterinary Faculty, Santiago of Compostela University, SPAIN; 2Investigation Center of Information technologies (CiTIUS), SPAIN; 3Translational Medical Oncology (IDIS), SPAIN

Zebrafish Model For Collagen Type VI-related Diseases Generated By Template-independent TALE Nuclease-mediated Splicing Modification  
P2-066  
Zlatko Radev1; Jean-Michel Hermel2; Yannick Elipot3; Sandrine Breuad4; Sylvain Arnould5; Philippe Duchateau6; Florence Ruggiero6; Jean-Stéphane Joly6; Frédéric Sohm6  
1CNRS, UMS 3504, AMAGEN, avenue de la Terrasse, F-91190, Gif sur Yvette, France, FRANCE; 2CNRS, UMR 9197, NEURO-Psi, INRA-CASBAH group, avenue de la Terrasse, F-91190, Gif sur Yvette, France, FRANCE; 3CNRS, UMR 9197, NEURO-Psi, DECA group, avenue de la Terrasse, F-91190, Gif sur Yvette, France, FRANCE; 4Institut de Génomique Fonctionnelle de Lyon, ENS de Lyon, CNRS, UMR 5242, Université Lyon 1, 46, All, FRANCE; 5Cellectis, 8, rue de la Croix-Jarry, F-75013, Paris, France, FRANCE; 6INRA, UMS 1374, AMAGEN, domaine de Vilvert, F-78352 CEDEX Jouy en Josas, France, FRANCE

Identification Of Candidate Genes For Nemaline Myopathy  
P2-068  
R Vaz1; V Oorschot2; G Ramm3; R J Bryson-Richardson1  
1School of Biological Sciences, Monash University, Melbourne, AUSTRALIA; 2Monash Micro Imaging, Monash University, Melbourne, AUSTRALIA; 3Monash Micro Imaging, Department of Biochemistry and Molecular Biology, Monash University, Melbourne, AUSTRALIA

Gpr56: A Novel Molecule Involved In Hematopoietic Stem Cell Generation  
P2-070  
Emma de Pater1; P. Solaimani Kartalaei1; C.S. Vink1; R. van der Linden1; E. Dzierzak3  
1Erasmus MC, NETHERLANDS; 2The Queen’s Medical Research Institute College of Medicine and Veterinary Medicine, UNITED KINGDOM; 3The Queen’s Medical Research Institute College of Medicine and Veterinary Medicine, UNITED KINGDOM
Modulation Of Gata2 Levels By Lmo4 Is Required For The Generation Of Definitive Haematopoietic Stem Cells  
T Dobrzycki; K Tuladhar; R Patience; R Monteiro  
The Weatherall Institute of Molecular Medicine, UNITED KINGDOM

R-spondin-1 Is A Novel Regulator Of Hematopoietic Stem Cell Specification  
Jamie R. Genthe; W.K. Clements  
St. Jude Children’s Research Hospital, UNITED STATES

A Zebrafish Model For Bruck Syndrome Caused By PLOD2 Mutations  
C A Gistelinck; A Willaert; S Symoens; A Huysseune; P E Witten; P Simoens; J C Marini; A M Barnes; F Malfait; K Vleminckx; A De Paepe; P Coucke  
1Center for medical genetics Ghent - Ghent University, BELGIUM; 2Biology Department, Ghent University, BELGIUM; 3Department of Electronics and information systems, University Ghent, BELGIUM; 4UGCT, Department of Physics and Astronomy, Ghent University, BELGIUM

A Zebrafish Model Of A Lethal Recessive Disorder Of Skeletal Developmental Caused By TAPT1 Mutations  
C A Gistelinck; A Willaert; S Symoens; A Huysseune; P E Witten; P Simoens; J C Marini; A M Barnes; F Malfait; K Vleminckx; A De Paepe; P Coucke  
1Center for medical genetics Ghent - Ghent University, BELGIUM; 2Biology Department, Ghent University, BELGIUM; 3Department of Electronics and information systems, University Ghent, BELGIUM; 4UGCT, Department of Physics and Astronomy, Ghent University, BELGIUM

HIF1 Alpha Is Required To Initiate GATA Factor Switching During Primitive Erythropoiesi  
B.A. Lin; C.H. Hu  
National Taiwan Ocean University, Department of Bioscience and Biotechnology, TAIWAN

Role Of Sclerotome In Hematopoietic Stem Cell Development  
Clair Kelley; N.O. Glenn; R Wilkinson; M Santoro; W.K. Clements  
1Department of Hematology, St. Jude Children’s Research Hospital, UNITED STATES; 2Department of Cardiovascular Science, Medical School, University of Sheffield, UNITED KINGDOM; 3Laboratory of Endothelial Molecular Biology, Vesalius Research Center, University of Torino, ITALY

Emp1: A New Transcription Factor That Controls Hematopoietic Progenitors At A Cell And Non-cell Autonomous Level  
Christopher Mahony; Julien Bertrand  
University of Geneva, SWITZERLAND

Characterization Of Zebrafish Erythroid Burst Cell Line  
Ondrej Svoboda; O Machonova; P Bartunek  
Institute of Molecular Genetics, CZECH REPUBLIC

Transient Amplifying Cells Are Essential For Epidermal Stratification During Postembryonic Zebrafish Development  
E Rangel-Huerta; E Maldonado  
1EvoDevo Lab, Unidad de Sistemas Arrecifales, Instituto de Ciencias del Mar, Universidad Nacional Aut, MEXICO; 2EvoDevo Lab. Unidad de Sistemas Arrecifales, Instituto de Ciencias del Mar, Universidad Nacional Aut, MEXICO
CAMP/CREB And TGFbeta Signaling Pathways Are Activated During Zebrafish Thyroid Development. G. Busolin1; O. Ek1; A. Vettori1; M. Schiavone2; N. Facchinello1; P. Porazzi3; A. Casari1; F. Marelli1; M. Campione4; L. Persani3; F. Argenton4; N. Tiso1 1Department of Biology, University of Padova, ITALY; 2Department of Biomedical Sciences, University of Padova, ITALY; 3Department of Clinical Sciences and Community Health, University of Milan, ITALY; 4CNR Institute of Neuroscience, Padova, ITALY

The Effect Of Calcium Channel Blockade Before Or After Kupffer's Vesicle Formation On Nanor Expression In Zebrafish Embryos A.B. Cronin; L. Byrnes; M. Grealy NUI Galway, IRELAND

Aplnr And Its Ligand Apela Have Opposite Effects On Nodal Signaling During Cardiac Development Ashish Deshwar1; S Chng2; L Ho2; B Reversade3; Ic Scott1 1The Hospital for Sick Children, CANADA; 2Institute of Medical Biology, A*STAR, SINGAPORE

Slow Calcium Waves Depend On Nebel/l-Aspdh And Confer Directional Cytoskeletal Reorganization During Midbody Formation And Germ Plasm Segregation Celeste Eno1; X Ge1; T Gomez2; D Slusarski2; Fj Pelegri1 1University of Wisconsin-Madison, UNITED STATES; 2University of Iowa, UNITED STATES

Transcriptional Control Of Lateral Mesoderm Patterning C Hess; S Nieuwenhuize; C Mosimann Institute of Molecular Life Sciences, UZH, SWITZERLAND

Translational Control Through Cytoplasmic Polyadenylation: Elucidating The Function Of Zorba And Cpeb4 In Early Zebrafish Embryogenesis M. LapińSka; C. L. Winata International Institute of Molecular and Cell Biology; Max-Planck Institute of Heart and Lung Resear, POLAND

Asymmetry Between Desynchronization And Resynchronization In The PSM Bo-Kai Liao1; K Uriu2; LG Morelli3; AC Oates4 1The Francis Crick Institute, UNITED KINGDOM; 2Theoretical Biology Laboratory, RIKEN, JAPAN; 3CONICET, Departamento de Física, Ciudad Universitaria, ARGENTINA; 4University College London, UNITED KINGDOM

Constitutive Receptor Desensitization Causes Cardia Bifida In Miles Apart Zebrafish Melanie Philipp1; MS Burczyk1; MD Burkhalter2; T Blätte1; S Matysik1; MG Caron1; LS Barak1 1Ulm University, GERMANY; 2Leibniz Institute for Age Research Fritz Lippmann Institute, GERMANY; 3Duke University, UNITED STATES

The N-terminal Acetyltransferase Naa10 Is Essential For Zebrafish Development Rasmus Ree; Line M Myklebust; Puja Gupta; Håvard Foyn; Kari E Fladmark; Thomas Arnesen University of Bergen, NORWAY

Endocytic Adaptor Protein ZTollip Inhibits Canonical Wnt Signaling L. Woźnińska-Nizioł1; I. Castanon2; A. Toruń1; M. González-Gaitán2; M. Miączyńska1 1Laboratory of Cell Biology, International Institute of Molecular and Cellular Biology in Warsaw, POLAND; 2Department of Biochemistry, University of Geneva, SWITZERLAND
Zebrafish Znfl1s Play Essential Roles In Patterning The Anterior-posterior Axis Of Hindbrain
Dong Xiaohua
Nanjing University, CHINA

Hemodynamic Profiles Tune The Arrest And Extravasation Of Circulating Tumor Cells
Sofia Azevedo1; G Allio1; G Follain1; N Fekonja1; S Pattabhiraman1; S Harlepp2; Jg Goetz1
1Inserm U1109, MN3T, Strasbourg, F-67200, Université de Strasbourg, Strasbourg, F-67000, FRANCE; 2Institut de Physique et de Chimie des Matériaux de Strasbourg, UdS, UMR 7504, 23 rue du Loess, 67034, FRANCE

Breast Cancer Heterogeneity In Zebrafish Xenograft Model: Towards A Personalized Treatment
Arwin Groenewoud; C Tulotta; L Chen; H Spaink; B.E Snaar-Jagalska
Institute of Biology, Leiden University, NETHERLANDS

Evaluation Of Zebrafish Embryo As A Model For P53 Mutation-Induced Tumor Invasiveness
Maciej Olszewski1; C. Tulotta2; M. Pruszko1; B.E. Snaar-Jagalska2
1International Institute of Molecular and Cell Biology, POLAND; 2Leiden University, Gorlaeus Laboratory, NETHERLANDS

Deciphering The Role Of EMT-TFs In Different Steps Of The Metastatic Cascade By Using A Zebrafish Model.
B Sanchez-Laorden; Oh Oscar Ocaña; R Corcoles; Ma Nieto
Instituto de Neurociencias CSIC-UMH, San Juan de Alicante, SPAIN

Bioluminiscent Xenotransplantation Model In Zebrafish
Martina Snegonova; O. Svoboda; O. Machonova; P. Bartunek
Institute of Molecular Genetics of the ASCR, CZECH REPUBLIC

Role Of Cxcl8a, Cxcl8b And Cxcr2 In Neutrophil Migration To Blood Vessels After Sterile Damage In Zebrafish
Carmen Feijoo; Constanza Zuñiga-Traslaviña; Karina Bravo-Tello
Departamento de Ciencias Biológicas, Facultad de Ciencias Biológicas, Universidad Andres Bello, CHILE

Olfm4 As A Molecular Marker For Differential Inflammatory Response.
Salomé Muñoz Sánchez1; M Parada K1; C Muñoz M1; P Maturana V2; R Cabrera3; M Allende C1
1FONDAP, Center for Genome Regulation. Universidad de Chile, CHILE; 2Biochemistry and Molecular Biology Laboratory. Universidad de Chile, CHILE

Germ-free Zebrafish Model For Screening Of Probiotic Bacteria.
I. Iturria1; P. Russo1; M. Nacher-Vázquez2; G. Spano2; P. Lopez1; M. A. Pardo1
1Food Research Unit - Azti Tecnalia, SPAIN; 2Department of Agriculture, Food and Environment Sciences, University of Foggia, ITALY; 3Department of Molecular Microbiology and Infection Biology, Centro de Investigaciones Biotológicas (CI, SPAIN

Loss-of Function Of Pank2 Gene In Zebrafish As A Model Of Pantothenate Kinase Associated Neurodegeneration
Daniela Zizioli1; A Guglielmi1; N Tiso1; G Busolin2; C Saracedo1; R Giuliani1; D Khatri1; G Borsani1; F Argenton2; E Monti1; D Finazzi1
1Department of Molecular and Traslational Medicine, Section of Biotechnology University of Brescia, ITALY; 2Department of Biology, University of Padova, ITALY
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<td>14:00 - 15:00</td>
<td>Møller</td>
<td>Posters II (odd)</td>
<td>Loss Of MIR-19 Prolongs Action Potential Duration By Modulating The Expression Of Cardiac Ion Channels In Zebrafish</td>
<td>Alexander Benz; H. A. Katus; D. Hassel</td>
<td>University Hospital Heidelberg, GERMANY</td>
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<td>The Impact Of Post-seizure Vitamin B6 Supplementation</td>
<td>Po-Yuan Chen; Yi-Wen Tsai; Tzu-Fun Fu</td>
<td>The Department of Medical Laboratory Science and Biotechnology, TAIWAN; The Institute of Basic Medical Sciences, TAIWAN</td>
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<td>In Vivo Approach Reveals Novel Chemical Modulators Of Collective Cell Migration: 4'-Methoxyflavone As An Inhibitor Of Canonical Wnt Pathway</td>
<td>Viviana Gallardo; A Risson; L Valdivia; S Burgess</td>
<td>Translational and Functional Genomics Branch, National Human Genome Research Institute, National Ins, UNITED STATES; Department of Cell and Developmental Biology, University College London, UNITED KINGDOM</td>
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<td>Impaired Light Detection Of The Circadian Clock In A Zebrafish Melanoma Model</td>
<td>Noemie Hamilton; N Diaz-de-Cerio; D Whitmore</td>
<td>University College London, UNITED KINGDOM</td>
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<td>Unbalancing Adult Stem Cells -- Assessing Effects Of Enhanced EGFR Signaling On Different Cellular Subsets In The Medaka Retina</td>
<td>Eva Hasel; C Becker; J Wittbrodt</td>
<td>Centre for Organismal Studies, GERMANY</td>
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<td>Folate Deficiency May Interfere Lipid Metabolism And Contribute To Hepatomegaly In Zebrafish</td>
<td>Tsun-Hsien Hsiao; Tseng-Ting Kao; Tzu-Fun Fu</td>
<td>The Institute of Basic Medical Sciences, National Cheng Kung University, TAIWAN</td>
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<td>Pro-tumoral Mechanisms Of Tumor Associated Neutrophils In Tumor Initiation As Revealed By Transcriptomic Profiles In Kras-induced Zebrafish HCC Model</td>
<td>X Huo; C Yan; Z Li; S Mathavan; Z Gong</td>
<td>National University of Singapore, SINGAPORE; Genome Institute of Singapore, SINGAPORE</td>
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<td>The BRIP1/FANCJ DNA Helicase As Novel 17q Driver Oncogene In Neuroblastoma</td>
<td>E Janssens; S Vanhauwaert; A Fieuw; At Look; S He; C Leonelli; N Van Roy; S De Brouwer; K De Preter; F Speleman</td>
<td>Center for Medical Genetics, BELGIUM; Department of paediatric oncology, Dana Farber Cancer Institute and Harvard Medical School, UNITED STATES</td>
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<td>Lack Of Essential Myosin Light Chain Phosphorylation Impairs Adaptation Of Cardiac Function In Response To Physical Stress In Adult Zebrafish</td>
<td>Mandy Kossack; S. Hein; L. M. Scheid; M. Mosqueira; L. Juergensen; M. Mueller; B. Meder; H. A. Katus; D. Hassel</td>
<td>University Hospital of Heidelberg, GERMANY; University of Heidelberg, GERMANY</td>
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Gender Disparity In Long-term Liver Tumor Progression In KasV12 Transgenic Zebrafish
Y. Li; H.K. Li; Z.Y. Gong
National University of Singapore, SINGAPORE

Using Zebrafish To Understand The Role Of Tumor Suppressors In Colon Cancer
Viola Lobert1; J Coates2; H Abrahamsen1; J.K. Heath1; H.A. Stenmark1
1Centre for Cancer Biomedicine, Institute for Cancer Research, Oslo, NORWAY; 2Walter and Eliza Institute of Medical Research, Parkville, AUSTRALIA

Oncogenic Mutation Of GNAQ/11 Disrupts Melanocyte Biology In A Zebrafish Model Of Uveal Melanoma
Dahlia Perez; A. Amsterdam; A.M. Henle; J.A. Lees
Massachusetts Institute of Technology, UNITED STATES

A Zebrafish Model To Study Mitochondrial DNA Polymerase Gamma Deficiency In Vertebrates
N. Tiso1; G. Busolin1; O. Ek1; M. Astone1; N. Facchinello1; A. Giuliodori1; M. Milanetto1; M. Peron1; M. Santimaria1; M. Schiavone1; A. Vettori1; F. Argenton1
1Department of Biology, University of Padova, ITALY; 2Department of Biomedical Sciences, University of Padova, ITALY

The Impact Of Folate Deficiency On The Development Of Zebrafish Circulation System
Hung-Chi Tu; Tseng-Ting Kao; Tzu-Fun Fu
The Institute of Basic Medical Sciences, College of Medicine, National Cheng Kung University, TAIWAN

Zebrafish In Translation - Phosphoinositide Recycling And Angiogenesis
Brant Weinstein1; A. Stratman1; C Mikelis1; S Pezoa1; Z Wang1; V Pham1; D Castranova1; A Davis1; T Kilts2; W Pan4; Js Gutkind3
1NICHD, NIIH, UNITED STATES; 2NIDCD, NIIH, UNITED STATES; 3University of Missouri, UNITED STATES; 4Shanghai Institutes for Biological Sciences, CHINA

MiR-145 Is Required For Dedifferentiation Of Hepatocyte In Zebrafish Intrahepatic Cholangiocarcinoma Formation
Jen-Leih Wu
ICOB, Academia Sinica, TAIWAN

The Zebra Fish IBD Model Assessed By Novel Probe Based TagMan Assays
Per Kania1; K Buchmann2; S Haarder2
1University of Copenhagen, DENMARK; 2Aquatic Pathobiology, University of Copenhagen, DENMARK

Glucocerebrosidase 1 (gba1) Deficient Zebrafish As A Model For Gaucher’s Disease And Gba1-linked Parkinson’s Disease
Marcus Keatinge1; H Bui1; A Menke3; Yc Chen1; A Sokol1; Q Bai4; F Ellett1; M Da Costa1; A Fleming4; R Hightey1; S Renshaw1; P Panula4; E Burton4; M O’neill7; O Bandmann1
1SITRAN, University of Sheffield, UNITED KINGDOM; 2Lilly, UNITED STATES; 3TNO, NETHERLANDS; 4University of Helsinki, FINLAND; 5International Institute of Molecular and Cell Biology, POLAND; 6Pittsburgh Institute for Neurodegenerative Diseases, UNITED STATES; 7University of Sheffield, UNITED KINGDOM; 8University of Cambridge, UNITED KINGDOM; 9Lilly, UNITED KINGDOM

Molecular Mechanism That Converts Vesicular Fusion Defects Into Apoptosis In Photoreceptors
Y. Nishiwaki; E. Oguri; M. Araragi; M. Suenaga; S. Nakamura; Y. Kojima; I. Masai
Okinawa Institute of Science and Technology Graduate University, JAPAN
RNAseq Of The Microglial Transcriptome Reveals Local Microglial Proliferation As An Acute Primary Response To Neuronal Cell Death P2-041
N Oosterhof1; I R Holtman2; L Kuil3; H C Zondervan - Van Der Linde; T J Van Ham1
1Erasmus Medical Center Rotterdam, NETHERLANDS; 2University Medical Center Groningen, NETHERLANDS

Intestinal Stem Cells: An Inside View P2-043
Narges Aghaallaei1; F. Gruhl1; T. Wernet1; V. Weinhardt1; L. Centanin1; J. Wittbrodt1
1University Heidelberg, Centre for organismal studies (COS), GERMANY; 2UNIL, lausanne (CH), computational biology, SWITZERLAND

Identification And Characterization Of Leukocytes Associated To Neuromasts P2-045
E. Aleksejeva1; A. Lunazzi1; N. Do Khoa1; C. Langevin1; J.-P. Levraud2; P. Boudinot1
1French National Institute of Agronomic Research, Jouy-en-Josas, FRANCE; 2Pasteur Institute, Paris, FRANCE

Investigating The Age-dependency Of Tubular Regeneration In The Zebrafish Kidney P2-047
Thomas Bates; B Hoppe; C Englert
FLI Leibniz Association for Age Research, GERMANY

Zebrafish Hair Cell Regeneration Mutant Generated By CRISPR-Cas Genome Editing Tool P2-049
L. Colón-Cruz1; G Varshney2; N Herrera1; A Torrado1; S Burgess3; M Behra1
1University of Puerto Rico - Medical Sciences Campus, PUERTO RICO; 2NHGRI - Bethesda, Maryland, UNITED STATES

Zebrafish Hair Cell Regeneration Mutant Generated By CRISPR-Cas Genome Editing Tool P2-051
Luis Colón-Cruz1; Gaurav Varshney2; Aranza Torrado1; Shawn Burgess3; Martine Behra1
1University of Puerto Rico - Medical Sciences Campus, PUERTO RICO; 2NHGRI, NIH - Bethesda, MD, UNITED STATES

Study Of The OXPHOS System During Homeostasis And Heart Regeneration In Zebrafish P2-053
C. García-Poyatos; S. Cogliati; J.A. Enriquez; N. Mercader
Spanish Center of Cardiovascular Research (CNIC) Madrid, SPAIN

Temporal And Cell Specific Expression Of Caveolin-1 During Zebrafish Heart Regeneration P2-055
D. Grivas1; J. Münch; A. González-Rajal; J.L. de la Pompa
Centro Nacional de Investigaciones Cardiovasculares (CNIC), SPAIN

The Myosin Heavy Chain Gene Promoter Associated With Indeterminate Muscle Growth Of Teleost P2-057
Shigeharu Kinoshita1; Aks Ahammad1; Md Asaduzzaman1; S Asakawa1; S Watabe3
1Graduate School of Agricultural and Life Sciences, The University of Tokyo, Bunkyo, Tokyo 113-8657, JAPAN; 2School of Fisheries and Aquaculture Sciences, Universiti Malaysia Terengganu, 21030 Kuala-Terengganu, MALAYSIA; 3School of Marine Biosciences, Kitasato University, 1-15-1 Kitasato, Minami, Sagamihara, Kanagawa 252, JAPAN

Nerves Control RedOx Level In Mature Tissues Through Schwann Cells And Hedgehog Signalling P2-059
F. Meda1; C. Gauron; C. Rampon; J. Teillon; M. Volovitch; S. Vriz
Collège de France, FRANCE
Measuring Muscle Stem Cell Dynamics During Homeostasis
P Nguyen; P Currie
Australian Regenerative Medicine Institute, AUSTRALIA

Notch Signalling In Retinal Regeneration And Its Role In Proliferation And Differentiation
A Perez Saturnino; K Lust; J Wittbrodt
Centre for Organismal Studies (COS), Heidelberg University, GERMANY

Mechanisms Of Scar Formation And Regression During Zebrafish Heart Regeneration
Hector Sanchez Iranzo; Jm Gonzalez-Rosa; M Galardi-Castilla; Rm Da Costa; N Mercader
Department of Cardiovascular Development and Repair, Atherothrombosis and Imaging, CNIC, SPAIN

Characterization Of A Ptf1a Positive Progenitor Population As Source For Exocrine Pancreas Regeneration
N. Schmitner; D. Meyer
Department of Molecular Biology/CMBI, Leopold Franzens University, Innsbruck, AUSTRIA

Cell Fates Of Wound Epidermis During Zebrafish Fin Regeneration
Eri Shibata\textsuperscript{1}; K Kawakami\textsuperscript{2}; A Kudo\textsuperscript{1}; A Kawakami\textsuperscript{1}
\textsuperscript{1}Tokyo Institute of Technology, JAPAN; \textsuperscript{2}National Institute of Genetics, JAPAN

Cross-species Analysis Of Visceral Adipose Tissues Discovers MXD3 As A Novel Regulatory Target For Adipocyte Differentiation.
Yasuhiro Shimada; Y Nishimura; T Tanaka
Mie University, JAPAN

Biological Outcome And Mapping Of Factor Cascades In Response To Hypoxia During Regenerative Angiogenesis In Zebrafish
G Siegfried; R Lahlil; Am Khatib
Université Bordeaux -INSERM, FRANCE

TGF Signaling Activated By MMP2 Is Essential For Bone Fracture Healing
Kazuhiro Takeyama; M Chatani; A Kudo
Tokyo Institute of Technology, JAPAN

Brg1 Regulates Zebrafish Heart Regeneration
C.L. Xiao; L. Gao; X.J. Zhu; J.W. Xiong
Institute of Molecular Medicine, Peking University, CHINA

Neural And Vascular Development Is Integrated By Maternal Thyroid Hormone To Give Rise To Zebrafish Blood-hindbrain-barrier (BHB)
N Silva\textsuperscript{1}; Y Li\textsuperscript{2}; DM Power\textsuperscript{3}; Marco António Campinho\textsuperscript{\textsuperscript{1}}
\textsuperscript{1}CCMAR - Centro Ciencias do Mar, PORTUGAL; \textsuperscript{2}College of Fisheries and Life Science, Shanghai Ocean University, Shanghai, China, CHINA; \textsuperscript{3}CCMAR - Center for Marine Sciences; College of Fisheries and Life Science, Shanghai Ocean University, PORTUGAL

Def6a And Swap70b Are Required For Correct Cell Movements During Epiboly Independent From Non-canonical Wnt Signalling
C. Chen; F. Sablitzky
Molecular Cell and Developmental Biology, School of Life Sciences, The University of Nottingham, UNITED KINGDOM
TALEN-mediated Site-directed Mutagenesis Of BHLH Proteins Id4 And Lyl1 To Study Their Role In Zebrafish Development
T. Dhanaseelan; M. Gering; F. Sablitzky
Molecular Cell and Developmental Biology, School of Life Sciences, The University of Nottingham, UNITED KINGDOM

Scarb2a Is Essential For Notochord Development In Zebrafish
A. DIAZ TELLEZ; E. Maldonado
UNAM, MEXICO

Generation Of Zebrafish Sox5 Mutant By CRISPR For Understanding The Mechanisms Of Fate Specification Of Pigment Cells In Teleost
H Takada1; Y Nagao1; T Adachi2; M Hibi1; Rn Kelsh3; Hisashi Hashimoto1
1Nagoya University, JAPAN; 2Keio University, JAPAN; 3University of Bath, UNITED KINGDOM

Modulation Of P53 And Met Expression By Krüppel-like Factor 8 Regulates Zebrafish Cerebellar Development
Sheng-Ping L. Hwang1; M.-Y. Tsai2; Y.-F. Lu1; Y.-H. Liu1; H.-W. Lien4; C.-J. Huang4; J.-L. Wu1
1Academia Sinica/Institute of Cellular and Organismic Biology, TAIWAN; 2National Defense University/Graduate Institute of Life Sciences, TAIWAN; 3National Taiwan University/Institute of Zoology, TAIWAN; ‘Academia Sinica/Institute of Biological Chemistry, TAIWAN

High Resolution Imaging Reveals Apical Extrusion Of Hemogenic Endothelial Cells From The Ventral Wall Of The Dorsal Aorta Of The Zebrafish Embryo
M. Jalali1; R. Thambirajah1; D. Ucanok1; R. Wilkinson1; C. Moore1; M. Gering1
1School of Life Sciences, University of Nottingham, UNITED KINGDOM; 2Cancer Research UK Stem Cell Biology Group, RCUK Manchester Institute, University of Manchester, UNITED KINGDOM; 3Department of Cardiovascular Science, University of Sheffield, UNITED KINGDOM

The In Vivo Model To Study MTOR Function And Dysfunction In Neurons
Justyna Jezierska; L Wolinska-Niziol; J Jaworski
International Institute of Molecular and Cell Biology in Warsaw, POLAND

Studying The Function Of APOL1 In The Zebrafish Pronephros
Ahmed Kotb
Institute of anatomy and cell Biology, Greifswald Uni, Greifswald, Germany, GERMANY

Eye Morphogenesis: Searching For New Components Of The Optic Cup Folding Machinery
Joaquin Letelier; C. González-Aguilar; J.R. Martínez-Morales
Centro Andaluz de Biología del Desarrollo, SPAIN

MicroRNA-206 Controls Somite Boundary In Zebrafish Embryos Through Silencing Reticulon 4
Cheng-Yung Lin; Jun-Yu He; Moo-Rumg Loo; Huai-Jen Tsai
National Taiwan University/Institute of Molecular and Cellular Biology, TAIWAN
Genetic Epistatis Between Sox32 And Cloche Reveals A Role Of Venous Endothelium For Kidney Morphogenesis In The Zebrafish Embryo
Yi-Wen Liu1; C.W. Chou1; Hsiao-Chu Hsu1; M You2
1Department of Life Science, Tunghai University, TAIWAN; 2Division of Molecular and Genomic Medicine, National Health Research institutes, TAIWAN

Identification And Functional Analyses Of Zebrafish Mucin Gene Family
Yufen Lu; S.-P. L Hwang
Academia sinica / institute of cellular and organismic Biology, TAIWAN

Scarb2a Expression Is Required For Notochordal Basal Membrane Assembly In Zebrafish
E Maldonado1; A Díaz-Tellez1; JL Ramos-Balderas2; F García-Hernández2
1EvoDevo Lab. Unidad de Sistemas Arrecifales, Instituto de Ciencias del Mar y Limnología, Universidad, MEXICO; 2Instituto de Fisiología Celular, Universidad Nacional Autónoma de México, MEXICO

Morphological And Molecular Characterization Of Early Thyroid Morphogenesis In Zebrafish Embryos
Robert Opitz1; A. Molinaro2; B. Haerlingen1; A. Trubiroha1; I. Vandernoot1; S. Costagliola1
1IRIBHM, ULB, BELGIUM; 2University of Pisa, ITALY

Adenylate Kinase 2 Is Essential For Zebrafish Gastrointestinal Development
Alberto Rissone1; K Bishop2; M Jones3; S Wincovitch4; R Sood2; S Burgess5; F Candotti6
1Translational and Functional Genomics Branch, NHGRI - National Institutes of Health, UNITED STATES; 2Zebrafish Core, National Human Genome Research Institute, NIH, UNITED STATES; 3Genomics Core, National Human Genome Research Institute, NIH, UNITED STATES; 4Cytogenetics & Microscopy Core, National Human Genome Research Institute, NIH, UNITED STATES; 5Translational and Functional Genomics Branch, NHGRI - National Institutes of Health, Bethesda, MD, UNITED STATES; 6Division of Immunology and Allergy, University Hospital of Lausanne, Lausanne, Switzerland, UNITED STATES

Histone H3K36 Demethylase Kdm2aa Is Important For Cell Proliferation In Embryonic And Adult Zebrafish
Cm Scahill1; Z Pusztai1; I Sealy1; Je Collins1; Rj White1; N Wali1; Cm Dooley1; M Ty1; J Borgel1; DI Stemple1; T Bartke2; Em Busch-Nentwich1
1Wellcome Trust Sanger Institute, UNITED KINGDOM; 2Medical Research Council Clinical Sciences Centre, Imperial College London, UNITED KINGDOM

Homophilic And Heterophilic Interaction Of Ncam1-Paralogs In Zebrafish
M Schober; R Walter; M Bastmeyer; J Bentrop
Karlsruhe Institute of Technology, GERMANY

Insight Into Leber Congenital Amaurosis From A Zebrafish Model
Xinhua Shu; R Raghupathy
Glasgow caledonian University, UNITED KINGDOM

Intestinal Innervation, Motility, And Morphology Defects Associated With Chd7 Loss Of Function In A Zebrafish (Danio Rerio) Model Of CHARGE Syndrome
Shelby Steele; K Cloney; M Stoyek; R Croll; F Smith; K Blake; J Berman
Dalhousie University, CANADA

A Zebrafish Model For Retinitis Pigmentosa: Identification Of Novel Candidates That Are Required For Photoreceptor Integrity
Husvinee Sundaramurthi; J. Koh; C.W. Winkler
Department of Biological Sciences and Centre for Bioimaging Sciences, National University of Singapo, SINGAPORE
N And E-cadherin Roles In Planar Cell Polarity Re-establishment During Hair Cell Regeneration

O Viader-Llargués1; A Mineo2; H López-Schier1
1Helmholtz Zentrum München, GERMANY; 2Institute for Research in Biomedicine, Barcelona, SPAIN

Lineage Tracing Of Pancreatic Nkx6.1 Expressing Cells Reveals Multipotency Throughout Zebrafish Life.

Marianne Voz; Apg Ghaye; Db Bergemann.; Ets Tarifeño-Saldivia; Bp Peers; Im Manfold Giga, B34, BELGIUM

Zebrafish Skin Pattern Variation Depends On Current Value Through Gap Junction

Masakatsu Watanabe; Shigeru Kondo
Osaka University, JAPAN

15:00 - 17:00 Room: Hall B

ORAL IV - Cancer and Regeneration
Chairs: Ewa Snaar Jagalska, Viola Lobert

15:00 Targeting ALDH+ Cancer Stem Cell Populations In Melanoma
R Crispin; N Carragher; C Gourley; Val Brunton; A Unciti-Broceta; Liz Patton
University of Edinburgh Cancer Research UK Centre, UNITED KINGDOM

15:15 Regeneration Of The Adult Zebrafish Brain: The Role Of Lineage Conversion
Michael Brand; A. Chekuru; V. Bosak; S. Hans
TU Dresden, CRTD, GERMANY

15:30 BMP Signaling Regulates Cardiomyocyte Dedifferentiation And Proliferation During Zebrafish Heart Regeneration
C.-C. Wu1; M. Dalvoy1; F. Kruse2; J. Bakkers2; Gilbert Weidinger1
1Ulm University, GERMANY; 2Hubrecht Institute, NETHERLANDS

15:45 Cellular And Molecular Changes In Adult NSCs Allowing Successful Regeneration In The Adult Zebrafish Brain
J.S. Barbosa; R. Di Giamo; R. Sanchez-Gonzalez; E.V. Baumgart; F. Theis; M. Götz; Jovica Ninkovic
Helmholtz Zentrum München, GERMANY

16:00 The Phosphatase Calcineurin Is Required For Setting The Tissue Boundaries Between Bones By Instructing Bone Progenitor Cells To Become Joint Cells
R Bernitz; S Kujawski; P Franke; Christopher Antos
DFG-Center for Regenerative Therapies Dresden, GERMANY

16:15 Multifaceted Notch Signaling: Balancing Fibrosis And Regeneration In The Zebrafish Heart
Juliane Münch; D. Grivas; A. González-Rajal; J.L. De La Pompa
Centro Nacional de Investigaciones Cardiovasculares (CNIC), SPAIN

16:30 Regenerative Potential Of Müller Glia Cells In The Medaka Retina
Katharina Lust; J. Wittbrodt
Centre for Organismal Studies Heidelberg, GERMANY

16:45 A Stepwise Genome-Editing Approach Allows The Progressive Modelling Of Pediatric High-Grade Gliomas And MPNSTs In Zebrafish
Felix Oppel; S He; T Tao; Mw Zimmerman; Ad Durbin; N Weichert; Dh Ki; At Look
Dana-Farber Cancer Institute, Harvard Medical School, UNITED STATES
15:00 Yap1 Reprograms Nitrogen Metabolism To Enhance Nucleotide Biosynthesis And Enable Growth During Liver Development And Tumorigenesis O-V-1
Ag Cox\textsuperscript{1}; Kl Hwang\textsuperscript{1}; K Evasion\textsuperscript{2}; K Brown\textsuperscript{3}; G Galli\textsuperscript{4}; Y Houvras\textsuperscript{5}; E Lien\textsuperscript{6}; Dy Stainer\textsuperscript{7}; F Camargo\textsuperscript{8}; Wolfram Goessling\textsuperscript{9}; J Asara\textsuperscript{10}
\textsuperscript{1}Brigham and Women's Hospital/Harvard Medical School, UNITED STATES; \textsuperscript{2}University of California, San Francisco, UNITED STATES; \textsuperscript{3}Beth Israel Deaconess Medical Center, UNITED STATES; \textsuperscript{4}Children's Hospital Boston, UNITED STATES; \textsuperscript{5}Cornell Weill College of Medicine, UNITED STATES; \textsuperscript{6}MPI Bad Nauheim, GERMANY; \textsuperscript{7}Brigham and Women's Hospital, Harvard Medical School, UNITED STATES

15:15 Valproic Acid Attenuates Seizures And Extends Lifespan Of The Zebrafish Model Of CLN2 Disease (Late Infantile Neuronal Ceroid Lipofuscinosis) O-V-2
Claire Russell\textsuperscript{1}; F Mahmood\textsuperscript{2}; A Zdebik\textsuperscript{3}; R Martin-Jimenez\textsuperscript{1}; A Au\textsuperscript{1}; J Cooke\textsuperscript{1}; M Campanella\textsuperscript{1}
\textsuperscript{1}Royal Veterinary College, UNITED KINGDOM; \textsuperscript{2}Royal Stoke University Hospital, UNITED KINGDOM; \textsuperscript{3}Royal Free Hospital, University College London, UNITED KINGDOM

15:30 Global Imaging Of Pathophysiological Angiogenesis In Adult Zebrafish Using Optical Projection Tomography O-V-3
Nicola Lockwood\textsuperscript{1}; S. Kumar\textsuperscript{2}; T. Correia\textsuperscript{3}; M.C. Ramel\textsuperscript{4}; N. Andrews\textsuperscript{5}; L. Bugeon\textsuperscript{6}; M.J. Dallman\textsuperscript{7}; J. Mcginty\textsuperscript{8}; M. Katan\textsuperscript{9}; S.R. Arridge\textsuperscript{10}; P. Frankel\textsuperscript{11}
\textsuperscript{1}Division of Medicine/ CoMPLEX, University College London, University Street, London WC1E 6JF, UNITED KINGDOM; \textsuperscript{2}Department of Physics, Imperial College London, Prince Consort Road, South Kensington, London, SW7 2, UNITED KINGDOM; \textsuperscript{3}Department of Computer Science, University College London, Gower Street, London WC1E 6BT, UNITED KINGDOM; \textsuperscript{4}Division of Medicine, University College London, University Street, London WC1E 6JF, UNITED KINGDOM; \textsuperscript{5}Division of Cell and Molecular Biology, Department of Life Sciences, Imperial College London, SW7 2A, UNITED KINGDOM; \textsuperscript{6}Division of Structural and Molecular Biology, University College London, Gower Street, London WC1E 6, UNITED KINGDOM

15:45 Encapsulating Thioridazine In Nanoparticles Reduces Toxicity And Improves Antibiotic Therapy Against Mycobacteria-Infected Macrophages And Zebrafish O-V-4
Jon Hildahl\textsuperscript{1}; C Vibe\textsuperscript{1}; F Fenaroli\textsuperscript{2}; D Pires\textsuperscript{3}; Gg Griffiths\textsuperscript{1}
\textsuperscript{1}University of Oslo, NORWAY; \textsuperscript{2}University of Lisbon, PORTUGAL

16:00 Notch1 Signaling Regulates T-cell Migration During T-cell Development O-V-5
Baubak Bajoghli\textsuperscript{1}; Paola Kuri\textsuperscript{1}; Daigo Inoue\textsuperscript{1}; Narges Aghaallei\textsuperscript{2}; Marleen Hanelt\textsuperscript{1}; Matteo Rauzi\textsuperscript{1}; Atsushi Toyoda\textsuperscript{2}; Yoshihito Taniguchi\textsuperscript{4}; Jochen Wittbrodt\textsuperscript{2}; Maria Leptin\textsuperscript{1}
\textsuperscript{1}EMBL, GERMANY; \textsuperscript{2}COS-Heidelberg University, GERMANY; \textsuperscript{3}National Institute of Genetics, JAPAN; \textsuperscript{4}Kyorin University School of Medicine, JAPAN

16:15 The Serotonergic Nervous System Regulates Hematopoietic Stem Cell Production Via The Hypothalamic-Pituitary-Interrenal Axis O-V-6
W Kwan\textsuperscript{1}; M Cortes\textsuperscript{1}; S Liu\textsuperscript{1}; W Goessling\textsuperscript{2}; Te North\textsuperscript{1}
\textsuperscript{1}Beth Israel Deaconess Medical Center, UNITED STATES; \textsuperscript{2}Brigham and Women's Hospital, UNITED STATES

16:30 Unexpected Mechanisms Of Pathological Angiogenesis In The Eye Revealed By A Novel Zebrafish Model For Age-related Macular Degeneration O-V-7
Lasse Jensen\textsuperscript{1}; ZA Ali\textsuperscript{1}; AM Mukwaya\textsuperscript{1}; DR Ramsköld\textsuperscript{1}; SG Giatrella\textsuperscript{1}; QD Deng\textsuperscript{1}; BP Peebo\textsuperscript{1}; NL Lagali\textsuperscript{1}; RS Sandberg\textsuperscript{1}; YC Cao\textsuperscript{2}; JKD Kele\textsuperscript{2}
\textsuperscript{1}Linköping University, SWEDEN; \textsuperscript{2}Karolinska Institute, SWEDEN; \textsuperscript{3}Karolinska Insitute, SWEDEN
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<th>Time</th>
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<th>Title</th>
<th>Authors</th>
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<tr>
<td>15:00</td>
<td>ORAL VI - Morphogenesis and cell signalling</td>
<td>Charis: Jochen Wittbrodt, Liz Patton</td>
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<td>15:00</td>
<td>O-VI-1</td>
<td>An Exclusive Cellular And Molecular Network Governs Intestinal Smooth Muscle Cell Differentiation In Vertebrates</td>
<td>Dafne Gays; C. Hess; A. Camporeale; U. Ala; P. Provero; C. Mosimann; M.M. Santoro. VIB Vesalius Research Center, BELGIUM; Institute of Molecular Life Sciences (IMLS), SWITZERLAND; Molecular Biotechnology Center, ITALY</td>
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<td>15:15</td>
<td>O-VI-2</td>
<td>In Vivo Analysis Of Formation And Endocytosis Of The Wnt/beta-Catenin Signaling Complex In Zebrafish Embryos</td>
<td>A.I.H. Hagemann; J. Kurz; Q. Chen; S. Weber; P Reeves; G. Davidson; T. Kirchhausen; S. Scholpp. Charité - Universitätsmedizin Berlin / Klinik für Pädiatrie m.S. Onkologie und Hämatologie, GERMANY; Karlsruhe Institute of Technology (KIT), Institute of Toxicology and Genetics (ITG), GERMANY; Departments of Cell Biology and Pediatrics, Harvard Medical School and Programme in Cellular and Molec, UNITED STATES</td>
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<td>15:30</td>
<td>O-VI-3</td>
<td>Cell Division And Cadherin-dependent Epithelial Tension Regulate Lens Epithelial Cell Migration</td>
<td>I. Masai; T. Mochizuki; Y.-J. Luo; H.-F. Tsai. OKinawa Institute of Science and Technology, JAPAN</td>
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<td>15:45</td>
<td>O-VI-4</td>
<td>Filopodia-based Wnt Transport During Zebrafish Tissue Patterning</td>
<td>Eliana Stanganello; A.I.H Hagemann; B Mattes; C Sinner; D Mayen; S Weber; A Schug; E Raz; S Scholpp. Institute of Toxicology and Genetics (ITG), Karlsruhe Institute of Technology (KIT), GERMANY; Steinbuch Center for Computing (SCC), Karlsruhe Institute of Technology (KIT), GERMANY; Institute of Cell biology, ZMBE, University of Muenster, GERMANY</td>
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<td>16:00</td>
<td>O-VI-5</td>
<td>Mau/Aqp3a Is A Novel Regulator Of Zebrafish Pigment Pattern Formation</td>
<td>Anastasia Eskova; U. Irion; F. Chauvigné; R. Garcia-Junco; M. Ammelburg; J. Cerdà; C. Kaderali; C. Nüsslein-Volhard. Max Planck Institute for Developmental Biology, Tübingen, GERMANY; IRTA-ICM, Barcelona, SPAIN; TU Dresden, GERMANY</td>
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<td>16:15</td>
<td>O-VI-6</td>
<td>A Dual Role Of BMP Antagonism During Eye Morphogenesis</td>
<td>Stephan Heermann; L. Schütz; S Lemke; J L Mateo; B Rahhal; K Krieglstein; J Wittbrodt. University Heidelberg, COS, GERMANY; University of Freiburg, Anatomy, GERMANY</td>
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<td>16:30</td>
<td>O-VI-7</td>
<td>A Temporal Window For Signal Activation Dictates The Dimensions Of The Nodal Signalling Domain In The Blastula</td>
<td>A.L. Van Boxtel; J. Chesebro; C Heliot; M.C. Ramel; C.S. Hill. Francis Crick Institute, UNITED KINGDOM</td>
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<td>16:45</td>
<td>O-VI-8</td>
<td>Optochemical Dissection Of Spadetail/Tbx16-dependent Paraxial Mesoderm Development</td>
<td>James Chen; A. Y. Payumo; L. E. McQuade; W. J. Walker; S. Yamazoe. Stanford University, UNITED STATES</td>
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<td>17:00 - 18:00</td>
<td>ROOM: Møller</td>
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<td>18:00 - 19:00</td>
<td>ROOM: HALL C</td>
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### Wednesday, July 01, 2015

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<th>Time</th>
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| 08:00 - 09:00 | **Keynote 3**  
Chairs: Gerd Flik, Petter Arnesen                                                                 | **Plenary hall - Hall A**       |
| 08:00 | **The Zebrafish As A Model Organism For Aquaculture Research**  
Laia Ribas  
Institut de Ciències del Mar, CSIC, SPAIN                                                                 | **Plenary hall - Hall A**       |
| 09:00 - 09:30 | **Invited plenary 11**                                                                 | **Plenary hall - Hall A**       |
| 09:00 | **Medaka As A Population Genomics Resource - Establishment And Analysis Tools**  
Jochen Wittbrodt; Ewan Birney; Dirk Dolle; Ian Dunham; Felix Loosli;  
Ravindra Peravali; Atsushi Toyoda; Asao Fujiyama; Tomoyuki Aizu; Yohei Minakuchi;  
Kiyoshi Naruse; Thomas O. Auer; Mikhail Spivakov  
1Heidelberg University, GERMANY; 2EMBL-EBI, Wellcome Trust Genome Campus, United Kingdom; 3National Institute of Genetics, Japan; 4National Institute for Basic Biology, Japan; 5Neuronal Circuit Development Group, France; 6Babraham Institute, Cambridge, United Kingdom                                                                 | **Plenary hall - Hall A**       |
| 09:30 - 10:00 | **COFFEE AND EXHIBITION**                                                                | **FOYER**                      |
| 10:00 - 10:30 | **Invited plenary 12**                                                                 | **Plenary hall - Hall A**       |
| 10:00 | **Controlling Genetics In Fish Using Genome Editing**  
GK Varshney; W Pei; MC LaFave; J Idol; L Xu; V Gallardo; B Carrington;  
K Bishop; Marypat Jones; M Li; U Harper; SC Huang; A Prakash; W Chen; R Sood;  
J Ledin; Shawn Burgess  
1National Human Genome Research Institute, United States; 2Vanderbilt University, United States; 3Uppsala University, Sweden                                                                 | **Plenary hall - Hall A**       |
| 10:30 - 11:00 | **Invited plenary 13**                                                                 | **Plenary hall - Hall A**       |
| 10:30 | **Do You Like It Hot Or Not? Thermal Choice, Individual Variation And Fever In Zebrafish**  
Simon MacKenzie; Sonia Rey  
Institute of Aquaculture, University of Stirling, United Kingdom                                                                 | **Plenary hall - Hall A**       |
| 11:00 - 11:30 | **Invited plenary 14**                                                                 | **Plenary hall - Hall A**       |
| 11:00 | **Feeding Zebrafish - A Lesson from Aquaculture**  
Christian Lawrence  
Boston Children’s Hospital, United States                                                                 | **Plenary hall - Hall A**       |
11:30 - 12:00 Room: Plenary hall - Hall A

**Invited plenary 15**

**11:30 Use Of Zebrafish As Infection Model In Aquaculture**

*IP-15*

Hanne C Winther-Larsen1; E Brudal2; L Ulanova1; EO Lampe1; JI Tandberg1; EK Berger1; L Lagos1; A Sjöstedt1; GW Griffiths1

1University of Oslo, NORWAY; 2Norwegian School of Veterinary Sciences, NORWAY; 3Umeå University, SWEDEN

12:00 - 13:00 LUNCH AND EXHIBITION Room: FOYER

12:15 - 13:00 Room: Hall B

**Zebrafish in Teaching**

Chair: Charles Press

**12:15 Be Healthy As A Fish - A Scientific Outreach Program In IIMCB Warsaw**

*WZM-1*

D Filipek1; A Bartosik1; E Szymanska1; K Korzeniewska1; M Wiweger2; P Korzeniowski1; C Winata2; U Bialek-Wyrzykowska1; J Kuznicki1

1International Institute of Molecular and Cell Biology, POLAND; 2Max-Planck Institute for Heart and Lu, POLAND

**12:30 Medaka For Classroom- Practical Works For Understanding Development And Genetics -**

*WZM-2*

K Naruse1; T Sasado1; S Fukamachi2; K Nomura3

1National Institute for Basic Biology, JAPAN; 2Japan Women's University, JAPAN; 3Hakuyo High School, JAPAN

**12:45 E-ZFbook - A New Teaching Concept**

*WZM-3*

Peter Aleström; Charles McL. Press

Department of Basic Science and Aquatic Medicine Department, Norwegian University of Life Science, NORWAY

13:00 - 14:00 Room: Møller

**Posters III (even)**

**The Sustainability Of Aquaculture In The Face Of Climate Change**

*S Bearder1; I Mcgonnell1; B Wren2; Rachel Lawrence1*

1Royal Veterinary College, UNITED KINGDOM; 2London School of Hygiene and Tropical Medicine, UNITED KINGDOM

**Analysis Of Human Myofibrillar Myopathy Related Genes In Zebrafish**

*John Bertrand Bührdel; W. Rottbauer; S. Just*

University of Ulm, GERMANY

**Establishing A Model Of Hyperthermia-induced Seizures In Freely Swimming Zebrafish Larvae**

*M. C. Gonzaless; G. P. Gabrielse; I. Lopes-Cendesse; C. V. Maurer-Morelli*

University of Campinas, BRAZIL

**Zebrafish As A Model For The Study And Treatment Of Francisellosis**

*Leidy Lagos; J. Tandberg; H. Winther-Larsen*

University of Oslo, NORWAY
Zebrafish As A Model To Study Nutritional Immunity: Applications To The Aquaculture Industry. P3-010
P.E. Ulloa1; C.J. Solis1; M. Caruffo2; M. Coronado3; P. Navarrete4; D. Paredes-Sabja5; C.G. Feijoo6
1Laboratorio Biología del Desarrollo, Facultad de Ciencias Biológicas, Universidad Andrés Bello, CHILE; 2Laboratorio de Vacunas Veterinarias, Facultad de Ciencias Veterinarias, Universidad de Chile, CHILE; 3Laboratorio Biología del Desarrollo, Facultad de Ciencias Biológicas, Universidad Andrés Bello, CHILE; 4Laboratorio de Microbiología y Probióticos, INTA-Universidad de Chile, CHILE; 5Gut Microbiota and Clostridia Research Group, Facultad de Ciencias Biológicas, Universidad Andrés Be, CHILE; 6Laboratorio Biología del Desarrollo, Facultad de Ciencias Biológicas, Universidad Andrés Bello, CHILE

A Zebrafish Model System For Studying Uptake Of Particles And Infections By Bacterial Pathogens In Fish Gastrointestinal Tract P3-012
SDL Dille Løvmo1; MS Speth1; GWG Griffiths1; EOK Koppang2
1University of Oslo, NORWAY; 2Norwegian University of life sciences, NORWAY

Antigen Uptake In Zebrafish P3-014
Louise Jørgensen; F. Mehrdana; P. W. Kania; K. Buchmann
University of Copenhagen, DENMARK

Hypoxia Delays Lymphatic Thoracic Duct Formation In Zebrafish P3-016
I. Ermens1; A. Lumley1; Y. Devaux1; D.R. Wagner2
1Cardiovascular Research Laboratory, Luxembourg Institute of Health, LUXEMBOURG; 2Cardiovascular Research Laboratory, Luxembourg Institute of Health and Division of Cardiology, Centr, LUXEMBOURG

Does Size Really Matter? A Study Focusing On The Role Of Dietary Phospholipids On Zebrafish Reproductive Performance P3-018
Wilson Pinto1; G. Martins2; T. Santos2; V. Rodrigues1; M. F. Riesco2; E. Cabrita2; L. E. C. Conceição1; P. J. Gavaia2; J. Dias1
1SPAROS, Lda, PORTUGAL; 2CCMAR, PORTUGAL

Development And Validation Of Specific ELISAs For Medaka Lh (Luteinizing Hormone) And Fsh (Follicle-stimulating Hormone) Using Recombinant Proteins P3-020
S. Burow1; L. Hollander2; M. Shpilman2; R. Nourizadeh-Lilabad1; F. A. Weltzien1; B. Levavi-Sivan2
1Department of Basic Sciences and Aquatic Medicine, Norwegian University of Life Sciences, 0454 Oslo, NORWAY; 2Department of Animal Sciences, Faculty of Agriculture, Food and Environment, The Hebrew University, ISRAEL

Electrophysiological Characterization Of Genetically Labeled Lh Producing Gonadotropes P3-022
Kjetil Hodne1; R. Strandbakk2; E Ager-Wick1; T Haug M.2; F-A Weltzien1
1Department of Basic Sciences and Aquatic Medicine, University of Life Sciences, NORWAY; 2Department of Biosciences, University of Oslo, NORWAY

Puberty Onset In Male Zebrafish P3-024
Arshi Mustafa; G Molés; M Schmitz
UPPSALA UNIVERSITY, SWEDEN

MiRNA Expression Profiling And Their Role In Zebrafish Sexual Development P3-026
C. Presslauer; T.T. Bizuayehu; J.M.O. Fernandes; I. Babiak
University of Nordland, NORWAY
D2KO Zebrafish As A Non-mammalian Model To Study The Role Of Local TH Activation During Early Development  
Anne Houbrechts; J Delarue; I Gabriëls; Vm Darras  
KU Leuven, BELGIUM

Comparative Effects Of Zeolite And Silver Nanoparticles In Zebrafish (Danio Rerio) Embryos  
Ebru Emekli-Alturfan1; U.V. Ustundag1; H. Hazineci1; F.D. Yazici1;  
M. Yuksel2; A.A. Alturfan2; M. Akalin2  
1Marmara University, TURKEY; 2Department of Textile Engineering, Faculty of Technology, Marmara University, TURKEY

Assessing Behavioral Toxicity Of Tetrabromobisphenol A (TBBPA) And A Mixture Of Persistent Organic Pollutants (POPs) Using The Zebrafish In Vitro Model  
Abdolrahman Khezri; T Fraser; G Herranz; E Ropstad; K Zimmer  
Norwegian University of Life Sciences, NORWAY

Effects Of Bisphenol A Or Tetrabromobisphenol A Exposure On Spermatogenesis And Steroidogenesis In A Zebrafish (danio Rerio) Ex Vivo Testicular Model  
K von Krogh1; I.G Andersen1; F.-A. Weltzien1; R.W Schulz2; E Ropstad1  
1NMBU, NORWAY; 2University of Utrecht, NETHERLANDS

Zebrafish Embryos As An In Vivo Model For Alpha Particle Radiation Biology  
Shuk Han Cheng; PKN Yu  
City University of Hong Kong, HONG KONG, CHINA PR

Relative Efficiency Of Ultraviolet Radiation A And B Combined With A Chemical Stressor On Zebrafish Embryos  
Terje Christensen1; T.B. Aleksandersen1; P. Aleström1; J.L. Lyche3; E.M. Bruzell4  
1Norwegian Radiation Protection Authority, Centre for Environmental Radioactivity (CERAD CoE), NORWAY; 2Norwegian Radiation Protection Authority, NORWAY; 3Norwegian University of Life Sciences, Campus Oslo, NORWAY; 4Nordic Institute of Dental Materials, NORWAY

Analysis Of Radiation-induced Responses During Early Embryonic Development Of Zebrafish  
Yasuko Honjo; Kenji Kamiya; Tatsuo Ichinohe  
Institute for Radiation Biology and Medicine, Hiroshima University, JAPAN

Effect Of UV Exposure Alone Or In Combination With Low-dose Gamma Radiation On Sensitive Early Life History Of Zebrafish  
Selma Hurem1; J Ortmann2; T Christensen1; D Oughton4; B Salbu4;  
T Fraser1; P Aleström1; J.L Lyche1; I Mayer1  
1Centre for Environmental Radioactivity CERAD CoE, Norwegian University of Life Sciences VetBio, NORWAY; 2Helmholtz centre for Environmental research, Dep. of bioanalytical ecotoxicology, GERMANY; 3Centre for Environmental Radioactivity CERAD CoE, Norwegian radiation protection authority, NORWAY; 4Centre for Environmental Radioactivity CERAD CoE, Norwegian University of Life Sciences IPM, NORWAY
Developmental Effects Of Gamma Irradiation In Successive Generations Of Zebrafish
Selma Hurem; HC Teien; OC Lind; DA Brede; YA Kassaye; V Berg;
I Mayer; J Ortmann; T Fraser; L Lindeman; E Lindbo-Hansen; D Oughton;
B Salbu; P Aleström; JL Lyche
1Centre for Environmental Radioactivity CERAD CoE, Norwegian University of Life Sciences VetBio, NORWAY; 2Centre for Environmental Radioactivity CERAD CoE, Norwegian University of Life Sciences IPM, NORWAY; 3Norwegian University of Life Sciences VetBio, NORWAY; Helmholtz centre for Environmental research, Dep. of bioanalytical ecotoxicology, GERMANY; 4Norwegian University of Life Sciences, Vetbio, NORWAY; 5Centre for Environmental Radioactivity CERAD CoE, Norwegian radiation protection authority, NORWAY

L. Martín; S. Hurem; B. Vidar; D.A. Brede; H.C. Teien; O.C. Lind;
H. Aanes; J.L. Lyche; P. Aleström
1Department of Basic Science and Aquatic Medicine, CERAD CoE, Norwegian University of Life Science, O, NORWAY; 2Department of Food Safety and Infection Biology, CERAD CoE, Norwegian University of Life Science, O, NORWAY; 3Department of Environmental Science, CERAD CoE, Norwegian University of Life Science, Ås, Norway, NORWAY; 4Institute of Medical Microbiology, Oslo University Hospital, University of Oslo, Norway, NORWAY; 5Department of Food Safety and Infection Biology, CERAD CoE, Norwegian University of Life Science, O, NORWAY; 6Department of Basic Science and Aquatic Medicine, CERAD CoE, Norwegian University of Life Science, O, NORWAY

Neurotoxicity Associated To The Use Of Tricaine Methanesulfonate As Euthanasia Agent In Zebrafish (Danio Rerio)
N Ayala; A Lora; R Jiménez; A Blanco; MR Moyano
1Department of Pharmacology, Toxicology and Forensic Medicine (University of Córdoba), SPAIN; 2Department of Anatomy and Comparative Pathology (University of Córdoba), SPAIN

Histopathological Study In Zebrafish (Danio Rerio) As An Experimental Model Caused By Euthanasia Dose Of Eugeno
N Ayala; AM Molina; R Jiménez; A Blanco; MR Moyano
1Department of Pharmacology, Toxicology and Forensic Medicine (University of Córdoba), SPAIN; 2Department of Anatomy and Comparative Pathology (University of Córdoba), SPAIN

Zebrafish Embryos As A Pharmacological Model For Comparative Study Of Methylxanthines
Ram Manohar Basnet; M Guarienti; A Gianoncelli; M Memo
UNIVERSITY OF BRESCIA, ITALY

Developmental Toxicity Evaluation Of Water Extracts Of Verbascum Thapsus And Tussilago Farfara In Zebrafish (Danio Rerio) Embryos
Aleksandra Divac Rankov; Svetlana Radovic; Mila Ljujic; Dragica Radojkovic
1Institute of Molecular genetics and Genetic Engineering, SERBIA; 2Faculty of Biology, University of Belgrade, SERBIA

Antioxidant Nutrients Can Modulate Pesticide-induced Toxicity In Zebrafish Embryos.
Staale Ellingsen; K Dale; Kt Latveit; S Penglase; Jd Rasinger
NIFES, NORWAY

Behavioural Effects Of Multisized Gold Nanoparticles In Zebrafish Embryos And Larvae
Juan German Herranz Jusdado; T Fraser; K Hylland; A Gutleb; E Ropstad
1NMBU/UiO, NORWAY; 2NMBU, NORWAY; 3Universitetet i Oslo, NORWAY; 4Luxembourg Institute of Science and Technology, LUXEMBOURG
Toxicology Of Dextran-coated SPIONs In Zebrafish Larvae
Luiza Wilges Kist; Gmt Oliveira; Tcb Pereira; Emn Oliveira; Rm Papaleo; Mr Bogo
PUCRS, BRAZIL

Effects On The Innate Immune System In Zebrafish (Danio Rerio) Embryos Exposed To Gold Nanoparticles
Eline Skadberg
University of Oslo, NORWAY

A Complex Study Of Fluoride Cardiotoxic And Neurotoxic Effects On Zebrafish
Róbert Kovács1; G. Gazsi1; M. Reining2; K. Bakos1; A. Appl1; S. Scholz3; P. Giang4; D. Vuong5; E. Garai5; F. Baska5; D. Bencsik5; É. Fetter5; J. Ortmann5; B. Urbányi2; Zs. Csenki2
1Szent István University, HUNGARY; 2Department of Aquaculture, Institute of Aquaculture and Environmental Safety, Faculty of Agriculture, HUNGARY; 3Bioanalytical Ecotoxicology, Helmholtz Centre for Environmental Research, GERMANY; 4Research Institute for Aquaculture No1, CZECH REPUBLIC; 5Department of Pathology and Forensic Veterinary Medicine, Faculty of Veterinary Science, Szent István, HUNGARY

Validation And Predictivity Of The Zebrafish Embryotoxicity Assay (zeta) With 50 Preclinically Tested Reference Pharmaceutical Compounds
Eckart Krupp1; S. Koenen1; A. Mohr2; G. Lodder2; H.P. Jost2; M. Roth2; A. Czich1
1Sanofi, Preclinical Safety, R&D DSAR, Frankfurt,, GERMANY; 2Sanofi, Animal Research & Welfare, R&D DSAR, Frankfurt,, GERMANY

In Vivo Toxicity Assessment Of Angiogenesis And The Live Distribution Of Nano-graphene Oxide Using The Developing Zebrafish Embryo
Js Lee; Jy Jeong; Mj Choi; Hj Cho; Bong Hyun Chung
Korea Institute of Bioscience and Biotechnology (KRIIBB), KOREA (REP.)

The Use Of Glyphosate And Teratogenicity In Danio Rerio
Ana Carina Vasconcelos1; L. D. S. Murgas2; D. P. Streit Jr.1
1Federal University of Rio Grande do Sul, BRAZIL; 2Federal University of Lavras, BRAZIL

Isolation And Characterization Of Commensal Yeast From Zebrafish Intestine
P. Siriyappagouder; V. Kiron; J.M.O. Fernandes
University of Nordland, NORWAY

Cell And Tissue Dynamics During Zebrafish Neural Tube Internalization
Claudio Araya; Miguel Miranda; Andres Rivera
Universidad Austral de Chile, CHILE

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NIH, UNITED STATES

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E.W. Damm1; A.E.E. Bruce2; W.K. Clements1
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Gary, A.B. Armstrong; P Drapeau
Centre Hospitalier de l’Université de Montréal Research Centre, CANADA

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Abdelhamid Bekri; E. Samarut; P. Drapeau
Centre de recherche du centre hospitalier de l’Université de Montréal (CRCHUM), CANADA
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¹INM-INSERM U1051, FRANCE; ²UMR_S710, FRANCE

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CNRS, UMR 9197, Institut des Neurosciences Paris-Saclay, FRANCE

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A.L. Herbert¹; K. Drerup²; B.L. Harty¹; S.D. Ackerman¹; R.S. Gray¹; T. O’reilly-Pol¹; S.L. Johnson¹; A. Nechiporuk²; K.R. Monk¹
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Australian Regenerative Medicine Institute, AUSTRALIA

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¹University of Edinburgh, UNITED KINGDOM; ²University College London, UNITED KINGDOM

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¹Boston University School of Medicine, UNITED STATES; ²Universidad de los Andes, COLOMBIA

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¹Centre for Organismal Studies Heidelberg, GERMANY; ²Universität Basel, Departement Biomedizin, SWITZERLAND
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1University of Konstanz, GERMANY; 2CRTD Dresden, GERMANY

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The University of Edinburgh, UNITED KINGDOM

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1The Francis Crick Institute, UNITED KINGDOM; 2University of Cambridge, UNITED KINGDOM

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1Institute of Biotechnology, NCKU, TAIWAN; 2Institute of Cellular and Organismic Biology, Academia Sinica, Nankang, Taipei, Taiwan., TAIWAN

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TU Braunschweig, Zoological Institute, GERMANY

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King’s College London, UNITED KINGDOM

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V Korzh1; Hy Shen1; I Kondrychyn1; E Bocksteins2; D Snyders2  
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Shyh-Jye Lee; Meng-Ju Lin  
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1Universidad Andres Bello, CHILE; 2Cell and Developmental Biology Department, University College London, London, UNITED KINGDOM; 3Facultad de Ciencias Biológicas, Universidad Andrés Bello, Santiago, Chile. INCAR, Concepción, Chile, CHILE

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M Hibb; R Kelsh; H Hashimoto
1University of Bath, UNITED KINGDOM; 2Nagoya University, JAPAN; 3National Institute for Basic Biology, JAPAN; 4Kyorin University, JAPAN

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A. Voltes; S. Calzolari; J. Terriente; C. Pujades
Universitat Pompeu Fabra, SPAIN

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Institute for Environmental Studies, VU University Amsterdam, NETHERLANDS

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M Eilertsen; Ø Drivenes; LOE Ebbeson; JV Helvik
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Ej Kenyon; M Derudas; Nk Kirkwood; S Ward; Gp Richardson; Cj Kros
University of Sussex, UNITED KINGDOM
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Peking University, CHINA

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Effect Of The Circadian System On Aggressive Behavior In Zebrafish And Its Relation With The Expression Of Neurohypophyseal Peptides

Veronica Akle; S Valencia; L Díaz
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The Zebrafish Amyloid Precursor Protein Homologue (Appb) Is Required For The Development Of Specific Hindbrain Neurons

R.K. Banote; M. Edling; P. Kettunen; H. Zetterberg; A. Abramsson
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Zebrafish Models For Megalencephalic Leukoencephalopathy With Subcortical Cysts (MLC)

C Perez-Rius; M Folgueira; H Gaitan-Peñas; A Alia; R Estevez; A Barrassalo-Gimeno
1Universitat de Barcelona, SPAIN; 2University of A Coruña, SPAIN; 3Leiden University, NETHERLANDS

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Ilse Bollaerts; J Van Houcke; A Beckers; K Lemmens; I Van Hove; L Moons
KU Leuven, BELGIUM
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E. Díaz Casado; E. Lima Cabello; J.A. García Santos; H. Volt Valdivia; C. Doerrier Velasco; G. Escames Rosa; D. Acuña-Castroviejo
University of Granada, SPAIN

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Stefania Dzieciolowska1; Gaba Armstrong1; HD Durham2; PD Drapeau1
1CRCHUM, CANADA; 2McGill University, CANADA

New Platform For Detailed Behavioral Phenotyping Of Zebrafish Larvae Using Multivariate Analysis
F Ek1; M Åberg Andersson1; C Wedding1; P Petersson1; S Waters2; R Olsson1
1Lund University, Chemical Biology & Therapeutics, SWEDEN; 2Lund University, Integrative neurofisiologio, SWEDEN

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V. Gerber1; L. Yang2; S. Rastegar1; U. Strähle1
1Karlsruhe Institute of Technology, Institute of Toxicology and Genetics (ITG), GERMANY; 2Chinese Research Academy of Environmental Sciences, CHINA

Tcf7l2 Steers Neuronal Diversity Required For Asymmetric Brain Formation And Function
L Guglielmi1; C.A Beretta1; U Hüskens1; E Yaksi2; S.W Wilson3; M Carl1
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Lucy Heap1; A Thompson1; I Favre-Bulle2; E Scott1
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1Reykjavik University, ICELAND; 23Z, ICELAND

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Smijin Soman1; Oliver Bandmann2; Jacek Kusznicki1
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K.T. Kirla1; K.J. Groh1; A.E. Steuer1; M. Poetzsch1; R.L. Eggen1; K. Schirmer1; T. Kraemer1
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Laura Kuil; H Van Der Linde; T.J Van Ham  
Erasmus MC, NETHERLANDS

Imaging Behavioral Responses And Their Neural Correlates During Orientation In Zebrafish  
A. Lauri¹; A. Myklatun¹; S. Eder²; D. Shcherbakov³; C. Cruz Perez¹; P. Symvoulidis¹; G.G. Westmeyer¹  
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¹The Rockefeller University, UNITED STATES; ²Université de Montréal, CANADA

The Role Of Circadian Rhythms In The Regulation Of The Visual Transduction Cascade  
Stephan Neuhauss; J Zang; J Keim  
University of Zurich, SWITZERLAND

Imaging Functional Diversity Of Amacrine Cell  
Yulia Nikolaeva; Anton Nikolaev; Jarema Malicki  
Department of Biomedical Sciences, University of Sheffield, UNITED KINGDOM

Neuromodulatory Control Of Inter-Individual Variation In Zebrafish Startle Behavior  
Carlos Pantoja; Ey Isacoff  
UC Berkeley, UNITED STATES

Effects Of Cocaine On Visual Processing In Zebrafish  
Eb Riley; K Kopotiyenko; Iv Zhdanova  
Boston University School of Medicine, UNITED STATES

Serotonin Receptor Mediated Regulation Of Nicotine-Induced Locomotor Behavior In Zebrafish Larvae  
H Schneider; Jm Abarr; Em Buening; Ky Chen; S India-Aldana; Y Liu; Br Edwards; S Jayaraman; M Pogue; Nj Snyder; Ee Clor; Ra Miller; S Owiredu; Bf Kopecky; Ca O’Brien  
DePauw University, UNITED STATES

Quantity And Position Dependent Response In Zebrafish Larval Behavior  
Keiko Umeda; W Shoji  
Frontier Research Institute for Interdisciplinary Sciences,Tohoku University, JAPAN

Cellular Senescence Affects Neuroregenerative Capacities in The Aged Zebrafish Retinotectal System  
Jessie Van Houcke; I Bollaerts; A Beckers; K Lemmens; L De Groef; L Moons  
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AMIGO In Brain Development  
Xiang Zhao; P Panula; H Rauvala  
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Characterization Of An Enhancer Trap Line Expressing EGFP In The Pharyngeal Pouches
Y.-H. Liu1; T.-C. Lin1; S.-P. L. Hwang1
1Department of Life Science, National Taiwan University, Taipei., TAIWAN;
2Department of Bioscience and Biotechnology, National Taiwan Ocean University, Keelung., TAIWAN; 3Institute of Cellular and Organismic Biology, Academia Sinica,Taipei., TAIWAN

Mechanisms Of Cell Fate Specification By The ARP/ASCL Factors In The Zebrafish Digestive System
David Stern1; L Flasse2; As Reuter1; J Pirson1; I Manfroid1; B Peers1; M Voz1
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The DNA Helicase Mcm2 Is Required For Symmetry Breaking
T. Casar Tena1; L. Maerz1; T. Blätte1; T. Stiff1; M. O'Driscoll2; P. Jegg2; M. Philipp1
1Ulm University, GERMANY; 2University of Sussex, UNITED KINGDOM

Transgenic Tools For Proteomic Analysis Of Ciliary Transport
X Fang1; U Jokipii1; J Malicki1
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Phosphoinositides In Ciliary Transport And Ciliopathies
Xiaoming Fang; J Malicki
University of Sheffield, UNITED KINGDOM

Crumbs Function In Vertebrate Cilia
Kh Hazime; Pl Lysyganicz; Jm Malicki
University of Sheffield, UNITED KINGDOM

Prostaglandin Signalling Regulates Ciliogenesis By Modulating Intraflagellar Transport
D Jin1; Tt Ni1; J Sun1; H Wan2; Jd Amack3; G Yu1; J Fleming4; C Chiang4; W Li1; A Papierniak4; S Cheepala4; G Conseil5; Sp Cole7; B Zhou6; la Drummond1; Jd Schuettz1; J Malicki6; Tp Zhong1
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The Role Of Bbs2 In Zebrafish Development
E Leventea; J Malicki
The University of Sheffield, UNITED KINGDOM

Analysis Of Cep290 Function In The Fish Model
E Leventea; J Malicki
The University of Sheffield, UNITED KINGDOM
Both Ciliary And Nonciliary Functions Of Foxj1a Confer Wnt/β-catenin Signaling In Zebrafish Left-Right Patterning
X. Lin; P. Zhu; X. Xu
Mayo Clinic College of Medicine, UNITED STATES

Live Imaging Of Rab8 Trafficking In Photoreceptors Of A Zebrafish Ciliopathy Model
I. Ojeda Naharros; S.C. Neuhauss; R. Bachmann-Gagescu
University of Zürich, SWITZERLAND

Kinesins In Vertebrate Ciliogenesis
Niedharsan Pooranachandran; J Malicki
University of sheffield, UNITED KINGDOM

The Role Of Histone Deacetylases In Cilia
Niedharsan Pooranachandran; K Adamson; A Grierson; J Malicki
University of sheffield, UNITED KINGDOM

Order And Coherence Of 3D Cilia Positioning In The Left-right Organizer
Rita Rua Ferreira1; Willy Supatto2; Frank Julicher3; Andrej Vilfan4; Julien Vermot1
1IGBMC, FRANCE; 2École Polytechnique Paris, FRANCE; 3Max-Planck-Institute for the Physics of Complex Systems, GERMANY; 4J. Stefan Institute, SLOVENIA

15:00 - 17:00  Room: Hall C

ORAL VII - Aqua. Reproduction. Toxicology
Chairs: Harald Sveier, Igor Babiak

15:00 A New, High Quality Reference Genome Assembly For Atlantic Cod
Alexander Johan Nederbragt; OK Tørresen; S Jentoft; B Star; GK Sandve; M Skage; MHS Hansen; A Tooming-Klunderud; KS Jakobsen
University of Oslo, NORWAY

15:15 NoPILLS Project: Evaluation Of Ecotoxicity Of Pharmaceuticals In Zebrafish
Xinhua Shu; O Pahl; Ja Craft
Glasgow caledonian University, UNITED KINGDOM

15:30 Functional Conservation Of Germ Plasm Organizers
Roland Dosch1; S. Riemer1; P. Krishnakumar1; T. Lingner1; F. Bontems2; F. Kaufholz1; N. Zhang1
1Georg-August University Goettingen, GERMANY; 2University of Geneva, SWITZERLAND

15:45 Development of new nanoparticulate vaccines against fish viruses in aquaculture
Arturas Kavaliauskis1; M Arnemo1; L Ulanova2; Ø Evensen1; A Estepa4; T Gjøen1
1Department of Pharmaceutical Biosciences, School of Pharmacy, University of Oslo, NORWAY; 2Department of Biosciences, University of Oslo, NORWAY; 3Norwegian University of Life Sciences, Oslo, NORWAY; 4Universidad Miguel Hernández, Elche, SPAIN

16:00 Zebrafish Suppressor Of Cytokine Signaling-1a (SOCS1a) As A Negative Regulator Of Growth Hormone Signaling
Z Dai; H Wang; X Jin; H Wang; J He; M Liu; Zhan Yin; Y Sun; Q Lou
1University of Science and Technology, CHINA; 2Institute of Hydrobiology, Chinese Academy of Sciences, CHINA; 3Huazhong University of Science and Technology, CHINA
16:15 Phosphorus Nutritional Requirements For Fish Skeletal Development. New Insights From Zebrafish 0-VII-6
P Suarez-Bregua1; E Torres-Ruñez2; D Prober3; Jm Cerda-Reverter3; Pm Guerreiro3; J Du4; C Cañestro4; J Rotllant1
1Institute of Marine Research, SPAIN; 2California Institute of Technology, UNITED STATES; 3Institute of Aquaculture Torre de La Sal, SPAIN;4University of Algarve, PORTUGAL

16:30 Identification Of Novel Sterility Vaccine Candidates, In RNAseq Samples Of Atlantic Salmon Testis 0-VII-7
A Wargelius1; Rb Edvardsen1; T Furmanek1; Ko Skaftnesmo1; A Juanchich1; S Leininger1; E Andersson1; Rw Schulz2; J Bogerd2; Gl Taranger1; L Kleppe1
1Institute of Marine Research, NORWAY; 2University of Utrecht, NETHERLANDS

16:45 The Preoptico-hypophysial Dopaminergic Neurons: Origin And Development Of The Pathway Inhibiting The Gonadotrope Function In Zebrafish. 0-VII-8
R FONTAINE1; K YAMAMOTO1; P AFFATICATI1; M DEMARQUE1; C BUREAU1; S BALOCH2; F GONNET2; I COLIN1; S DUFOUR2; P VERNIER1; C PASQUALINI1
1Institut des Neurosciences Paris-Saclay (Neuro-PSI), FRANCE; 2Biologie des Organismes et Ecosystèmes Aquatiques, UMR BOREA CNRS 7208, Museum National d’Histoire N, FRANCE

15:00 - 17:00 Room: Hall A
ORAL VIII - Neurobiology
Chairs: Camila V. Esguerra, Finn-Arne Weltzien

15:00 Gustatory Computations In Zebrafish Brain 0-VIII-1
Emre Yaksi
Kavli Institute for Systems Neuroscience - NTNU, NORWAY

Raphaël Candelier1; S Wolf1; W Supatto2; G Debrégeas1; E Beaurepaire2
1Laboratoire Jean Perrin (CNRS/UPMC), FRANCE; 2Laboratory for Optics and Biosciences (Ecole Polytechnique / CNRS / INSERM), FRANCE

15:30 Using Vertical Migration Of Larval Zebrafish To Study Non-image-forming Light Processing: Opsin, Neural Circuits And Neuromodulators 0-VIII-3
Q. Lin1; S. Jesuthasan2
1NUS Graduate School for Integrative Sciences and Engineering, National University of Singapore, SINGAPORE; 2Institute of Molecular and Cell Biology; Duke-NUS Graduate Medical School; Department of Physiology., SINGAPORE

15:45 RNA Sequencing Of FACS-sorted Motor Neurons And Schwann Cells Reveals Pre-mRNA Splicing Changes In A Zebrafish Model For Spinal Muscular Atrophy 0-VIII-4
Himanshu Vyas1; C Vaz2; B Parker2; S Tay1; K See1; V Tanavde1; S Mathavan1; C Winkler1
1Centre for Bioimaging Sciences, Department of Biological Sciences, NUS, SINGAPORE; 2Bioinformatics Institute, SINGAPORE; 3Genome Institute of Singapore, SINGAPORE

16:00 Melatonin Restores Mitochondrial Function And Locomotor Activity In Parkinsonian Zebrafish 0-VIII-5
Dario Acuña-Castroviejo; E Diaz-Casado; Germaine Escames; Ja García; A Lopez; I Rusanova; Ja Guerrero-Martinez
University of Granada, SPAIN

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16:15 Gdf6a Antagonizes Retinoic Acid Signals To Maintain Retinal Progenitors And Regulate Timing Of Neurogenesis In The Zebrafish Retina
L.E. Valdivia; G. Gestri; M. Givens; A.M. Krasnow; W. Horner; D. Lamb; A. Tafessu; T. Vleeshouwer-Neumann; A. Williams; C. Wierzbicki; R.M. Young; H.L. Stickney; T.A. Hawkins; Q. Schwarz; F. Cavodeassi; S.W. Wilson; K.L. Cerveny
1University College London, UNITED KINGDOM; 2Reed College, UNITED STATES; 3University of South Australia, AUSTRALIA; 4Universidad Autonoma de Madrid, SPAIN

16:30 An Acute Inflammatory Response Underlies Axonal Regeneration In The Zebrafish Retinotectal System
Ilse Bollaerts; J Van Houcke; A Beckers; K Lemmens; I Van Hove; L Moons
KU Leuven, BELGIUM

16:45 CRH Neurons Encode Different Acute Stress Levels By Activity Changes In Individual Cells And Alteration In Coordinated Population Response
C.M. Vom Berg - Maurer; C.A. Trivedi; J.H. Bollmann; R.J. De Marco; S. Ryu
1Developmental Genetics of the Nervous System, Max Planck Institute for Medical Research, 69120 Heide, GERMANY; 2Neural Circuits and Behavior, Department of Biomedical Optics, Max Planck Institute for Medical Research, GERMANY
16:15 Development And Evolution Of Skeletal Joints 0-IX-6
Gage Crump1; Ct Miller2; I Braasch3; N Ellis2; J Smeeton1; L Lai1; Rm Dale1; J Postlethwait2; A Askary1
1University of Southern California, UNITED STATES; 2UC Berkeley, UNITED STATES; 3University of Oregon, UNITED STATES; 4Loyola University Chicago, UNITED STATES

16:30 Role Of Reelin In Zebrafish Optic Tectum Development And Retino-tectal Circuit Formation 0-IX-7
Vincenzo Di Donato1; T. Auer2; N. Testa1; J.P. Concordet3; F. Del Bene1
1Institut Curie, FRANCE; 2UNIL, Lausanne, SWITZERLAND; 3Museum National d'Histoire Naturelle, FRANCE

16:45 Hedgehog Signalling Is Required For Integrin Activation And Endodermal Cell Adhesion And Migration 0-IX-8
Philipp Tschaikner1; T Wegleiter2; G Shah3; K Thierbach4; K Klee1; I Roeder1; J Huisken1; P Aanstad1
1Institute of Molecular Biology, University of Innsbruck, AUSTRIA; 2Brain Research Institute, University of Zurich, SWITZERLAND; 3Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, GERMANY; 4Institute for Medical Informatics and Biometry, TU Dresden, GERMANY

17:00 - 18:00 POSTERS, EXHIBITION AND DRINKS  ROOM: FOYER

18:00 - 19:00 DANIO-CODE Workshop
Room: Hall C
Chair: Ferenc Müller

18:00 Transcriptional And Posttranscriptional Annotation Reveal Developmental Dynamics Of Regulatory Non-coding Elements WDC-1
Ferenc Mueller1; I Miguel-Escalada1; Y Hadhziev1; Chirag Nepal2; P Balwierz3; N Lj3; V Haberle3; R Andersson4; A Sandelin5; P Carninci2; B Lenhard3
1University of Birmingham, UNITED KINGDOM; 2University of Bergen, NORWAY; 3Imperial College London, UNITED KINGDOM; 4University of Copenhagen, DENMARK; 5University of Copenhagen, DENMARK; 6RIKEN, JAPAN

18:15 Genome Methylation Variations Correspond To The Development Of Zebrafish Late Blastula WDC-2
Jue Zhao; Y. Zhao; X.G. Wang; T. Tian; Z.Y. Zhu; J.C. Luo
Peking University, CHINA

18:30 Mapping Chromatin Dynamics During Vertebrate Embryogenesis WDC-3
MT Lee; AR Bonneau; KR DiVito; AJ Giraldez
Yale University, UNITED STATES

18:45 SiteRNAs, The Novel Small Non-coding RNAs That Control Gene Expression During Early Zebrafish Development. WDC-4
C Heliot; S Horswell; C. S. Hill
CRICK institute, UNITED KINGDOM

17:00 - 18:00 POSTERS AND DRINKS  ROOM MØLLER

20:00 - 00:00 CONGRESS DINNER  THE OPERA HOUSE
### THURSDAY, JULY 02, 2015

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<td><strong>Keynote 4</strong>&lt;br&gt;Chairs: Mary Mullins, Jean-Stephane Joly</td>
<td>Room: Plenary hall - Hall A</td>
<td>Deconstructing And Reconstructing Neuronal Circuits For Olfaction In Zebrafish KN-04 Rainer Friedrich Friedrich Miescher Institute for Biomedical Research, SWITZERLAND</td>
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<td>09:00 - 09:30</td>
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<td>Fast Contactless Three-dimensional And Multimodal Zebrafish Imaging IP-16 Jan Huisken Max Planck Institute of Molecular Cell Biology and Genetics, GERMANY</td>
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<td>A Sensory-motor Loop Interfacing The Cerebrospinal Fluid To Central Pattern Generators In The Zebrafish Spinal Cord IP-17 U Böhm; L Djenoune; K Fidelin; J Hubbard; A Prendergast; J Sternberg; Claire Wyart ICM, FRANCE</td>
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<td>Adult Neurogenesis And Neurosteroids In Zebrafish: A Complex Story IP-18 Q Kah1; N Diotel2; J Cano-Nicolau3; MM Gueguen3; P Coumailleau3; C Vaillant3; E Pellegrini3 1Research Institute in Health, Environment and Occupation, FRANCE; 2Saint Denis, La Reunion, RÉUNION; 3Rennes, FRANCE</td>
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<td>Maternal Regulators Of Germ Cell Specification And Germ Granule Assembly IP-20</td>
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