



EZM 2026



**13th European
Zebrafish Meeting
Vienna, Austria**



July 7-11, 2026

Program Book

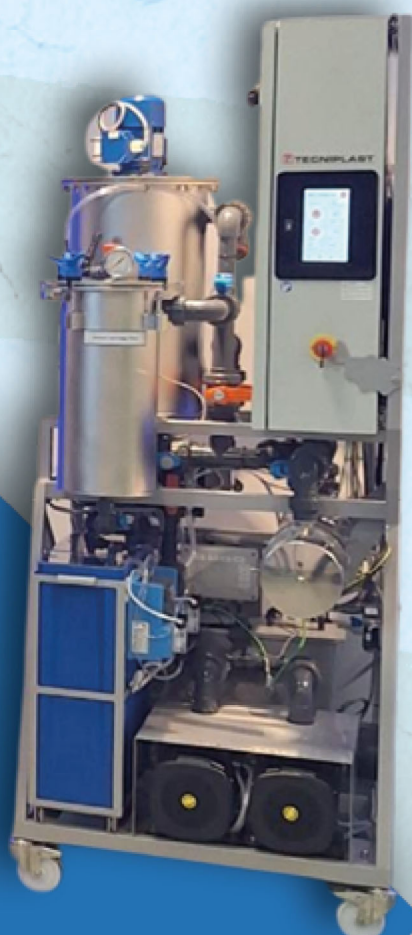
European
Zebrafish
Society 



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Welcome

On behalf of the European Zebrafish Society, we are delighted to welcome you to the 13th European Zebrafish Meeting.

Over the years, it has become a cherished tradition to bring our international community together in different locations across Europe. For 2026, we are teaming up with our colleagues and friends from beautiful Vienna to host this truly international meeting, with delegates from more than 50 countries.

The organizing committee is very much looking forward to the meeting and to the opportunity to reconnect with colleagues from around the world in person. While each edition of the meeting reflects the unique character of its host city, the common thread that unites us is the outstanding scientific programme and the breadth of topics represented.

This year's programme features plenary lectures, parallel sessions, workshops, poster sessions and award lectures, offering a stimulating and diverse scientific meeting. We have implemented additional initiatives to support PhD students, postdoctoral researchers, and early-career colleagues. We also decided to broaden the scope of the conference beyond zebrafish to highlight the excellent science employing other teleost models. Furthermore, there are a couple of spectacular social events on offer.

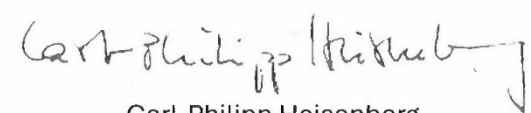
We would like to extend sincere thanks to our sponsors and exhibitors, whose continued commitment and support play an essential role in the success of these meetings.

The coming days promise to be filled with inspiring science, engaging discussions, and valuable opportunities for networking and collaboration. We hope you will enjoy both the scientific programme and the unique atmosphere of Vienna.

With our very best wishes,



Stefan Schulte-Merker



Andrea Pauli

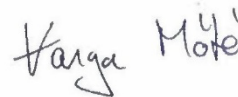
Carl-Philipp Heisenberg



Diana Pinheiro



Przemko Tylzanowski



Máté Varga

Local Organizing Committee



Stefan Schulte-Merker
Institute of Cardiovascular
Organogenesis and
Regeneration, Münster (GER)



Andrea Pauli
Research Institute of
Molecular Pathology (IMP) at
the Vienna Biocenter (AT)



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Philipp Heisenberg
Institute of Science and
Technology (AT)



Przemko Tylzanowski
Professor at KU Leuven
University (BEL) and Medical
University of Lublin (POL)



Máté Varga
Department of Genetics at
ELTE Eötvös Loránd University
in Budapest (HUN)

General Information

Conference venue

The EZM2026 will be held in the [Vienna Congress Center \(VIECON\)](#)

Messeplatz 1, 1020 Wien/Vienna



It takes just 2 minutes to get from the U2 station *Messe-Prater* to the venue Messe Wien/VIECON. There are signs from the station that will guide you towards the entrance.

The registration desk is located next to the entrance on the ground floor. The oral presentations will be held in three lecture rooms: Strauss 2&3 (Plenary), Stolz 1 and Stolz 2.

The posters will be presented close to the exhibition- and coffee break area.

Coffee- & lunch stations (preordered bags / cash bar) will be located in the exhibitors area.

We expect around 560 delegates from 51 countries.

Internet connection

WiFi Access for Conference Participants is provided throughout the building.

Network name: #FreeWiFiVIECON

Simply connect and accept the terms of use on the landing page.

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Bank services

Banks are open from 08.30 – 12.30 and from 13.30 – 15.00, Monday to Friday. Some banks are also open on Thursday afternoons until 17.30. Cash machines (ATMs), which accept all major international bank cards, are available throughout the city. Major credit cards are widely accepted, but please always check beforehand.

Climate & Time

The climate in Vienna in July is very summery and sunny. July is the warmest month of the year. Average daily highs range from about 26°C to 28°C, with a maximum up to 37 °C!

Evenings are mild, with some cooling usually occurring at night to around 20°C. Occasional summer thunderstorms are possible.

Currency

The official currency of Austria is the Euro (€).

1 EUR = 1,14 USD = 0,86 GBP = 183,68 JPY =

0,92 CHF as per date of printing.

Drinking water

Tap water in Austria is of high quality and suitable for drinking.

Electricity

220V - 50Hz AC. The standard European plugs (two round pins) are used.

Emergency Phone Number

The phone number to dial for emergencies is 112.

Insurance

In registering for the EZM2026 participants agree that neither the organising committee nor the conference office assume any liability whatsoever. Participants are requested to make their own arrangements for health and travel insurance.

Language

The official language of the conference will be English (no simultaneous translation). German is the official language in Austria.

Medical care

The Austrian National Health Service may be used by all persons from European Union countries who have the EHICard. It is advisable for participants from countries outside the European Union to take out medical insurance before reaching Austria, since they will be charged for access to the national health system.

General Information

Pharmacies

Medicines that do not require a medical prescription may be purchased over the counter. If you need advice, do not hesitate to ask the pharmacist. If you usually take medication, it is advisable to bring a sufficient amount with you for your trip.

There are duty pharmacies open 24 hours a day. Outside each pharmacy there is a list of the nearest duty pharmacies, or you may ask at your hotel reception for more information.

Public transport

Vienna offers an extensive public transportation network consisting of subway, tram, and bus lines. Intervals are short: 3 to 5 minutes during peak hours.

There are tickets available for 24, 28, 72 hours or for 7 or 31 days. These tickets cover all transport in the city center.

You can buy the tickets here:

- at all [information and ticket centres](#)
- in the [WienMobil ticket shop](#)
- at the ticket machines of Wiener Linien

Useful links:

[Route planner public traffic](#) (Wiener Linien)

[WienMobil-APP](#) (free)

Safety - Crime

Visitor safety is generally adequate. Like in any other major European city you can walk everywhere using common sense. Pick pocketing in heavily visited tourist zones or in public transport lines might be a concern.

Experience has shown that some basic precautionary measures should always be kept in mind in any city:

- Do not carry important items like flight tickets, passports etc. with you all the time during your stay, especially when using crowded public transport lines. Rather carry a photocopy of your passport or an identity card with you. It might be difficult to replace on short notice, especially passports and visa to return to your country of residence.
- Take off your name badge when leaving the conference centre.

Shops

Shops in Vienna are generally open between 09.00 and 18.00 Mon-Fri, and between 09.00 and 12.00 on Saturdays.

Some shops are open until 19.00 Mon-Fri and until 17.00 on Saturdays. Shops are usually closed on Sundays, except for a few establishments with special permits.

Tipping

Tips are not obligatory in Austria, although people usually tip approximately 10% at restaurants, cafés and bars.

Hotel and airport porters will accept tips, depending on the luggage.

Time

Austrians time zone in July is UTC +2 (Central European Summer Time).

V.A.T.

A value-added tax (V.A.T.) of generally 20% is applied to most products and services (a 10% V.A.T. applies on e.g. books, food and a few other items). The V.A.T. is included in the displayed price.

The European Zebrafish Society acknowledges and is grateful for the support of the Vienna Tourist Board.



The [ivie – City Guide App](#) is the perfect companion for all event attendees and offers valuable tips about the city.

General Information

TRAVELLING FROM AND TO THE AIRPORT

Vienna International Airport is located 13 kilometres south east of Vienna.

The Schnellbahn S7

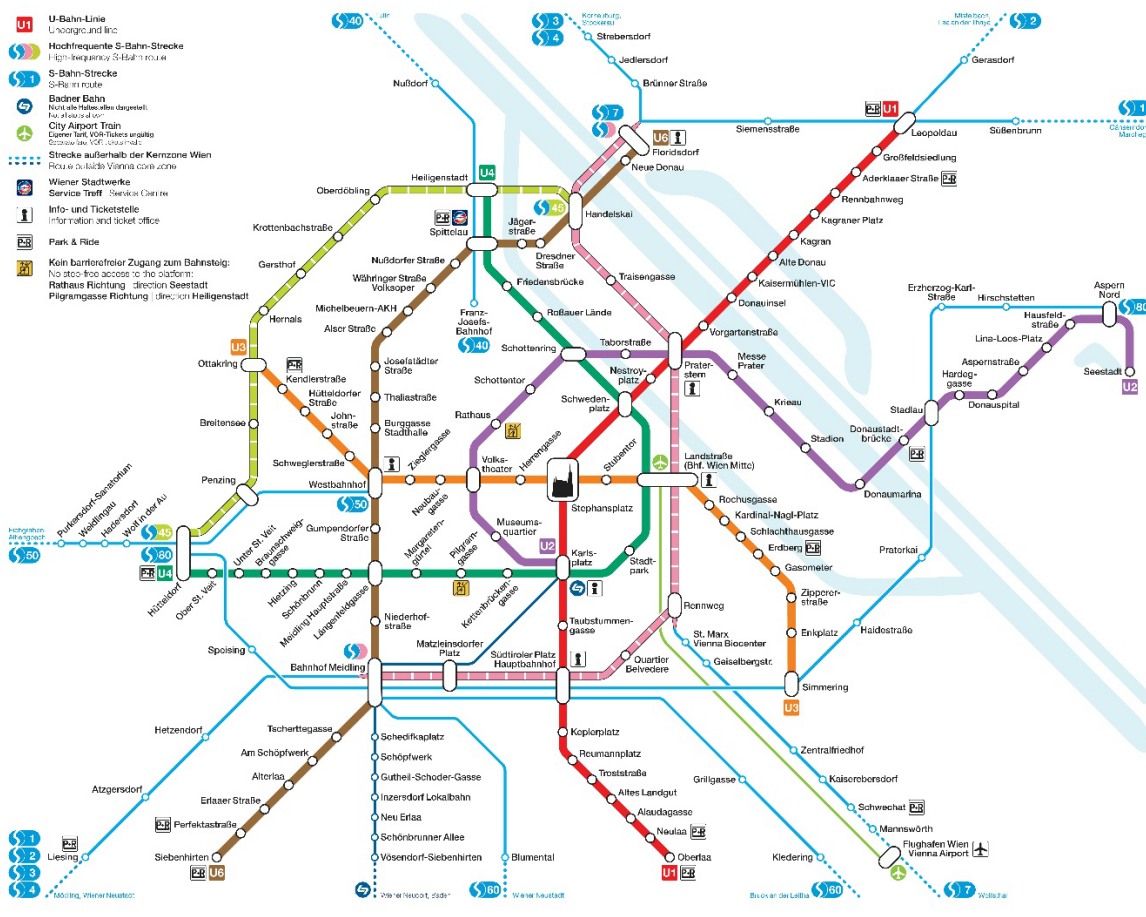
The S7 is a low-priced way of getting from the airport to the city and back. The S-7 has a few stations throughout the city (*Praterstern, Wien Mitte, Rennweg*) making your trip to and from the airport more convenient. Trains leave regularly, usually every 15-30 minutes. The journey lasts approximately 26-30 minutes. Ticket machines are on the level above the platforms at the airport and at stations in Vienna (*Praterstern, Wien Mitte*). After arriving at *Praterstern*, either walk (10-15 min) or take the U2 (purple) to *Wien Messe* (single stop).

City Airport Train (CAT)

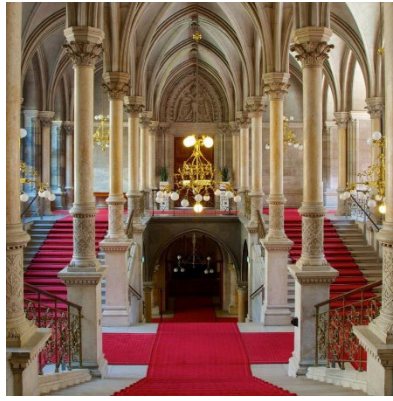
The train service between the airport and the city centre (City Air Terminal – Station *Wien Mitte*) leaves every 30 minutes and takes 16 minutes. It runs from 6:05 hrs to 00:05 hrs (Airport to City) and from 5:38 hrs to 23:38 hrs (City to Airport). Tickets may be purchased online, from ticket machines at the airport station or on board. After arriving at *Wien Mitte* take either

- The U4 (green) to *Schottenring* and then change to U2 (purple) to *Wien Messe*
- Or take any S-Bahn from *Wien Mitte* to *Praterstern* (pink in the overview picture - it's a single stop) and then either walk (10-15 min) or change to U2 (purple) to *Wien Messe* (again single stop)"

Schnellverbindungen | Rapid Transit



Reception



The reception will take place in a truly exceptional historic venue - the elegant ballroom of **Vienna City Hall**. Enjoy a refined standing buffet and drinks, accompanied by live classical music followed by a party with DJ.

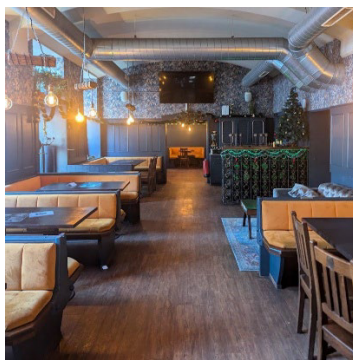
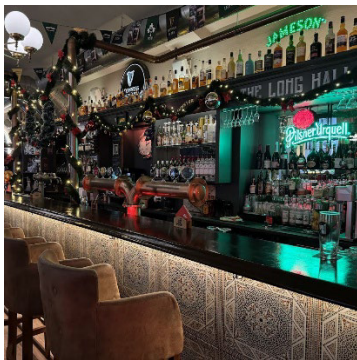
Tickets can no longer be purchased, but do ask at registration for returned tickets.

Time: Friday, July 10, at 19:00 – 23:30

Venue: Vienna City Hall, Lichtenfelsgasse 2, 1010 Vienna

How to get there: take the purple line U2 from station *Messe-Prater* to *Rathaus*, it's 5 minutes to walk to the City Hall.

YoRC Social Event



Join us for an informal social evening organized by the Young Researcher Committee (YoRC) of the European Zebrafish Society, at the **Long Hall Bar**!

This will be an excellent opportunity to mingle and discuss future YoRC initiatives and how we could create an interactive and vivid environment for young researchers within the zebrafish community!

Join us to meet old friends and make new ones!

Time: Wednesday, July 8, at 20:00

Venue: Long Hall Bar, Florianigasse 2, 1080 Vienna

Session Chairs



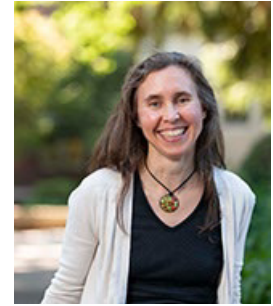
Darius Balciunas
Vilnius University, LT



Anabela Bensimon-
Brito
CBI Toulouse, FR



Barbara Budzynska
Medical University
of Lublin, PL



Kara Cervený
Reed College, USA



Chen-Hui Chen
ICOB, Academia
Sinica, TWN



Filippo del Bene
Institut de la Vision,
FR



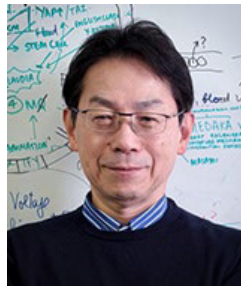
Yaniv Elkouby
The Hebrew Univ. of
Jerusalem, ISR



Peter Fabian
Masaryk University,
CZ



April Freeman
ZIRC, Oregon, USA



Makoto Furutani-
Seiki
Yamaguchi Univ., JP



Karin Finger-Baier
MPI München, GER



James Gagnon
The University of
Utah, USA



Dan Gorelick
Baylor College of
Medicine, USA



Felix Gunawan
University of
Toronto, CAN



Itamar Harel
Hebrew University
Jerusalem, ISR



Corinne Houart
King's College
London, UK

Session Chairs



Caghan Kizil
Columbia University,
USA



Koichi Kawakami
National Institute of
Genetics, JP



Kristen Kwan
Utah University,
USA



Merlin Lange
Chan Zuckerberg
BioHub, USA



Laura Lorenzo-Orts
IMB Mainz, GER



Annemarie Meijer
Leiden University,
NL



Anming Meng
Tsinghua University,
CN



Marta Migocka-
Patrzałek
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Maria Mione
University of Trento,
IT



Patrick Müller
University Konstanz,
GER



Philipp Niethammer
MSK Cancer Center,
USA



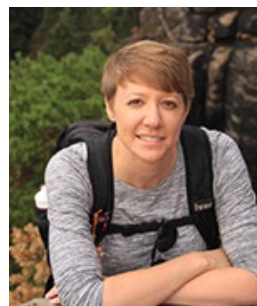
Hitoshi Okamoto
Center for Brain
Science, JP



Liz Patton
The University of
Edinburgh, UK



Jonathan Rodenfels
MPI-CBG Dresden,
GER



Katherine Rogers
National Institute of
Health/NICHD, USA



Verena Ruprecht
University of
Innsbruck, AT

Session Chairs



Karuna Sampath
University Warwick,
UK



Alex Schier
Biozentrum,
University Basel, CH



Lilianna Solnica
Krezel
Wash. Univ. USA



Didier Stainier
MPI Bad Nauheim,
GER



Natascia Tiso
University of
Padova, IT



Nadine Vastenhouw
University of
Lausanne, CH



Tanya Whitfield
Sheffield University,
UK



Manuel Zimmer
IMP Wien, AT

European Zebrafish Society

A stylized zebrafish logo in teal, featuring a horizontal oval body with three horizontal stripes and a small circle for an eye. A thin teal line extends from the left side of the oval, curving upwards and then downwards to the right, passing behind the word 'Society'.

REPRESENTS the fish research community to European authorities and other stakeholders

ADVANCES standardization of animal welfare, husbandry and animal experimentation

CONNECTS 270+ members of researchers and the fish community across Europe and beyond

RAISES AWARENESS of teleosts as biomedical research models

PROMOTES young scientists (Young Researcher Committee)

SPONSORS workshops, meetings, travel fellowships

Keynote Speakers

Elly Tanaka (Vienna)

Lecture title: "Evolving and regenerating limbs"

Elly Tanaka received her AB at Harvard, her PhD at UCSF and post-doctoral work at University College London. She became group leader at the Max Planck Institute of Molecular Cell Biology and Genetics Dresden then Professor at the TU Dresden and since 2016 Senior Group Leader at the Institute for Molecular Pathology, Vienna.

Since April 2024 she is Scientific Director of the Institute of Molecular Biotechnology (IMBA), Vienna. She is interested in how to reconstitute and regenerate complex tissues. She uses natural models of regeneration such as the axolotl, as well as patterning processes in embryonic stem cell derived organoids.

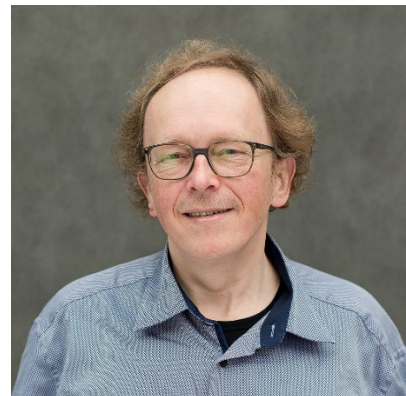


Pavel Tomancak (Dresden & Brno)

Lecture title: "Of Hydra and flies: evolution of morphogenesis"

Pavel Tomancak studied at Masaryk University in Brno, Czech Republic, before completing his Ph.D. in developmental biology at the European Molecular Biology Laboratory in Heidelberg. He conducted his postdoctoral work at the University of California, Berkeley.

He is currently a senior research group leader at the Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG) in Dresden, Germany, and the Director of the Central European Institute of Technology (CEITEC) Consortium in Brno, Czech Republic. Dr. Tomancak's laboratory has been utilizing genomics approaches to investigate the role of tissue-specific gene expression regulation in the development and evolution of *Drosophila* embryos. His laboratory has developed molecular imaging and image analysis techniques (Fiji project) to describe the dynamic patterns of gene expression during development with high spatial and temporal resolution, utilizing SPIM technology (OpenSPIM) as a cornerstone of their research. Currently, the Tomancak lab is expanding the range of model species to study by quantitative imaging methods to understand the evolution of morphogenesis.



Information for Authors

Posters

All posters will be displayed throughout the conference, however 2 dedicated poster sessions will be held. Authors will present their posters according to the following schedule:

- **odd numbered posters ending with A:**
Wednesday, July 8: Poster Session 15.00-17.00 hrs
- **even numbered posters ending with B:**
Friday, July 10: Poster Session 13.45-15.45 hrs

The numbers are assigned by topic and then simply in chronological order, followed by A/B, e.g., P01.001A, P01.002B, etc.

The usable surface on the poster board will be 90 cm width x 150 cm height (approx. 35 x 59 inches). Posters should be in portrait format. Only adhesive tape can be used to mount posters. Material will be provided onsite.

POSTER MOUNTING AND REMOVAL

Mounting: Tuesday, July 7, from 11.00 hrs onwards

Removal: Friday, July 10, from 15.45 hrs until Saturday, July 11, 10.30 hrs

Oral Presentations

Please prepare your presentation on a USB-stick. In case you are using embedded videos, please have them in the same folder on the USB.

1. Deliver your presentation to the technician in the lecture hall.
2. Presentations should be handed in as soon as you arrive and register (**during the breaks only** and at the **latest in the break before your session**).
3. We use Powerpoint, 16:9 format.
4. **File type:** PowerPoint .pptx or PDF (**note: Speaker notes will not be visible during the presentation**)
5. **File name:** presenter's name and presentation number. To avoid any compatibility problems, please do not use special characters (e.g. «, Ö, Ø, ñ, ε, ®, ý, }, {, etc.).
6. **Fonts:** Use "Latin-based fonts".
7. When using mathematical symbols please use the ones which are available under Latin fonts (unicode or DOS: Western Europe) as these can be shown without any problems.
8. Do not use any passwords or encryption for your presentation file.
9. The official conference language is **English**. Therefore, all presentations are to be held in English.
10. Please note that due to the technical set-up it is **NOT POSSIBLE to use your own device** for your presentation.

Program Overview

Time	Tuesday 7.7.			Wednesday 8.7.	Thursday 9.7.	Time	Friday 10.7.		Saturday 11.7.
08:30					Evolution & Alt Fish Models I (S)	08:30	Emerging Technologies II (S)		Elly Tanaka Keynote (S)
09:00				Germline and Early Development I (S)		09:00			
09:30						09:30			
10:00	Registration	Bruker Workshop (I)	Educational Session (II)	Flash Talks (15 min)	Coffee break	10:00	Coffee break		Coffee break
10:30				Coffee break	Disease Models III (S)	10:30	Stem Cell & Reg (S)	Cardiovascular II (S)	
11:00				Toxicology I (S)	Tissue Formation (I)	11:00	Infect & Immunity (I)		
11:30				Morph & Organo I (I)	Neural Circ Behav (II)	11:30	Evol Alt Fish Models II (II)		
12:00				Cardiovascular I (II)			Liz Patton CNV Award (S)	12:00	Community Session (S)
12:30	Lunch			12:30		Lunch			
13:00	Opening			Tecniplast Presentation	Lunch	12:45	Lunch		
13:30	Emerging Technologies I (S)			Neurobiology (S)		13:45	Poster Session (even numbers)		
14:00					Morphology & Organogenesis II (S)	14:00			
14:30		14:30							
15:00	Coffee break				15:00				
15:30	Disease Models I (S)			Poster Session (odd numbers)	Coffee break	15:30			
16:00					Metabolism (S)	15:45	YoRC Session (S)	Germ & Early Dev II (I)	
16:30					Toxicology II (I)	16:30			
17:00					Cell Fate (II)	17:15			
17:30	Pavel Tomancak Keynote (S)			Disease Models II (S)	End	17:30	Chi-Bin Chien Awards (S)		
18:00	End			Epig & Gene Reg (I)		18:00			
18:30				Husbandry (II)		18:15	Transit		
19:00				David Grunwald Streisinger Award (S)		19:00	Reception		
19:30				YoRC Social Event		19:30	Vienna Town Hall		

Pre-Meeting Workshops

Tuesday, July 7

10.00-13.00 Workshop Bruker:

Stolz 1

Bruker Fluorescence Microscopy Solutions for Zebrafish Imaging

- Dr Jochen Gehrig, Senior Product and Application Specialist, Bruker Luxendo GmbH, Heidelberg, Germany
- Dr Felix Weltzien, Senior Sales Product Specialist Advanced Imaging Solutions, Bruker Luxendo GmbH, Heidelberg, Germany

In this workshop, we will explore high-content screening and light-sheet microscopy for fish model systems such as zebrafish and medaka. Participants will be introduced to the technology, optomechanical design, and imaging applications of the **Acquifer IM** automated microscopy platform and the **Luxendo Papilio5D** light-sheet microscope.

The workshop will be divided into **two sessions**. In the first part, we will showcase the Acquifer IM for automated imaging and analysis of **large numbers of live zebrafish**, enabling efficient phenotypic screening and target identification, for example in drug discovery workflows.

In the second part, participants will learn about and use the Papilio5D light-sheet microscope to image live zebrafish embryos in **three dimensions with high resolution** while minimizing phototoxicity and sample damage.

By combining **automated high-content screening** with **advanced volumetric imaging**, participants will gain a comprehensive understanding of the strengths and limitations of each approach and will be equipped with a powerful toolkit for investigating complex biological processes in vivo.

11.30-13.00 Educational Session

Stolz 2

Chairs: Kara Cervený and Marta Migocka

Zebrafish in education: Three short talks followed by a panel discussion and opportunities for interaction

Inviting broader participation in science and developmental biology research with primary school students, undergraduates, and the general public

Kara Cervený

Zebrafish in Education: Applications and Alternatives

Marta Migocka-Patrzałek

Public engagement with science

Máté Varga

The focus of the panel discussion will include an emphasis on Training the Next Generation of Zebrafish Researchers and we will have time for attendees to make/deepen connections with fellow zebrafish researchers involved in education and public engagement.

Conference Agenda

Tuesday, July 7

	Strauss 2-3 (Plenary)	Stolz 1	Stolz 2
09.00	Registration		
10.00		Workshop Bruker	
11.30			Educational Session
13.00	Opening		
13.30	Emerging Technologies I		
15.00	Coffee break (Exhibition Area)		
15.30	Disease Models I		
17.00	KEYNOTE Pavel Tomancak: Of Hydra and flies: evolution of morphogenesis		

Tuesday, July 7

Time	Title	Abstr. no.
Emerging Technologies I		
Chairs: James Gagnon & Darius Balciunas		Room: Strauss 2-3
13.30	Light-mediated control over gene expression for lineage tracing and clonal cancer modeling Martin Distel	305
13.45	Error-free and efficient prime editing in absence of maternal Polθ Filippo Del Bene	71
14.00	Leveraging CRISPR integration to build intracellular signaling sensors Emma Spikol	261
14.15	Nano-pulling promotes axon regeneration in vivo Elena Capitanini	394
14.30	Genome editing with programmed short DNA integration using Prime Editors to establish a zebrafish model for Robinow syndrome Yosuke Ono	326
14.45	An orthogonal Cro/OR3 binary system for targeted gene expression Kazuhide Asakawa	52

Tuesday, July 7

Time	Title	Abstr. no.
Disease Models I		Room: Strauss 2-3
Chairs: Natascia Tiso & Caghan Kizil		
15.30	A constitutively active variant of the adhesion GPCR Adgrg6 (Gpr126) with novel ear defects and precocious peripheral myelination Tanya Whitfield	246
15.45	Extracellular matrix remodeling at the blood-brain barrier is an early pathological contributor to Alzheimer's disease pathology.” Caghan Kizil	
16.00	A synthetic genetic interaction screen in zebrafish uncovers novel modifiers of developmental ocular disorders Stephen Carter	352
16.15	Role of myeloid cells and leukotriene signalling in Uveal Melanoma progression Francesca Lorenzini	118
16.30	Ultra-rare biallelic THAP12 variants cause loss of function and underlie severe epileptic encephalopathy Eric Samarut	61
16.45	Compound inheritance of EHHADH and MASP1 mutations in non-syndromic cleft lip: familial genomic analysis and functional characterisation in zebrafish Paulina Swatowska	91

KEYNOTE		Room: Strauss 2-3
17.00	Of Hydra and flies: evolution of morphogenesis Pavel Tomancak <i>Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG) in Dresden, Germany, and Director of the Central European Institute of Technology (CEITEC) Consortium in Brno, Czech Republic</i>	

Conference Agenda

Wednesday, July 8

	Strauss 2-3 (Plenary)	Stolz 1	Stolz 2
09.00	Germline and Early Development I		
10.15	Flash Talks		
10.30	Coffee break (Exhibition Area)		
11.00	Toxicology I	Morphogenesis and Organogenesis I	Cardiovascular I
12.30	Lunch (Exhibition Area)		
13.00		Tecniplast Talk	
13.30	Neurobiology		
15.00	Poster Session / Coffee break Odd numbered posters ending with A (Poster- & Exhibition Area)		
17.00	Disease Models II	Epigenetics and Gene Regulation	Husbandry
18.30	Streisinger Award Lecture – <i>David Grunwald (USA)</i>		
19.30	YoRC Social Event		

Wednesday, July 8

Time	Title	Abstr. no.
Germline and Early Development I Chairs: Anming Meng & Karuna Sampath		Room: Strauss 2-3
09.00	Capturing the dynamics of DNA repair across embryogenesis with light-activated CRISPR James Gagnon	59
09.15	The physical biology of time and tempo in embryonic pattern formation Patrick Müller	389
09.30	Zygotene cilia control meiotic chromosome pairing and germ cell development from zebrafish to humans. a new framework for human infertility Avishag Mytlis	175
09.45	A novel disordered protein Pinchado (pin) reveals Balbiani body RNA granule organisation and the mechanisms governing oocyte polarity Keerthi Sanjay Baliga	113
10.00	Elucidating how sexual fate is determined in the African turquoise killifish aging model Annekatriin Richter	451

Wednesday, July 8

Title	Abstr. no.
Flash Talks (1 minute each)	Room: Strauss 2-3
Cre at Work: Expanding Conditional Zebrafish Lines for Visualization and Functional Studies • Edita Bakūnaitė	279
Impact of the Gut Microbiome on the Functional Development of the Enteric Nervous System • Gilles Vanwalleghem	443
Optogenetic Tracking of Energy Status During Zebrafish Heart Regeneration • Laura Florit Gonzalez	144
Compartmentalization and synergy of osteoblasts drive bone formation in the regenerating fin • Nicole Cudak	428
Fishy traits: decoding paradise fish behaviour using deep learning algorithms • Dominika Csáki	89
Beyond the Cable: Mechanisms and Function of Axon Diameter Diversity in vivo • Maria Eichel-Vogel	274
Identification of metabolic and genetic factors governing systemic aging by inter-strain comparison of an ultra-short-lived vertebrate • Tohru Ishitani	15
Morphodynamics of germinal niches in the medaka ovary: from larva to adult • Marlène Davilma Inrae	119
Valorisation of aflatoxin-B1-contaminated corn in freshwater aquaculture via yellow mealworm larvae and assessing frass toxicity by zebrafish embryo microinjection • István Szabó	310
A dual-phase enhancer couples progenitor maintenance and pancreatic lineage stability • Jose Bessa	
Redox mechanisms of retinal stem cell development • Shahad Albadri	73
RNAquarium: Repository-Scale dual RNA-seq analysis identifies novel zebrafish viruses and illuminates host biology • Eric Waltari	437
OptoFish: A modular toolkit for multi-scale optogenetic control of signaling pathway activity in zebrafish • Shloka Jaisingh	89
Origins of primitive erythropoiesis in zebrafish • Ondrej Svoboda	211

Wednesday, July 8

Time	Title	Abstr. no.
Toxicology I Chairs: Daniel Gorelick & Barbara Budzynska Room: Strauss 2-3		
11.00	Development of a high-content analysis workflow to screen the effect of endocrine disrupting chemicals on macrophages and enteric neurons in transgenic zebrafish embryos Elena Nicolay	93
11.15	Distinct and Reversible Neural Mechanisms Governing Anxiety-Like Behaviour Following Acute Exposure to Contaminants of Emerging Concern in Zebrafish Anamika Bhargava	103
11.30	Fungal screen reveals novel compounds coltripyrone A and B that reversibly arrest zebrafish embryonic development by inhibition of oxidative phosphorylation Jelmer Hoeksma	330
11.45	Linking Chemical and Genetic Disruption of Retinoic Acid Signaling to Developmental Phenotypes in Zebrafish Embryos Using High-Content Imaging Bingxu Chen	271
12.00	Comparative Neurobehavioral Toxicity of Synthetic Cannabinoid Receptor Agonists in Zebrafish Leonardo Costalonga Rodrigues	81
12.15	The zebrafish Visual and Acoustic Motor Response (VAMR) assay has the potential to add value to the Developmental Neurotoxicity In Vitro Battery (DNT IVB) Julia Spath	164

Wednesday, July 8

Time	Title	Abstr. no.
Morphogenesis and Organogenesis I Chairs: Tanya Whitfield & Verena Ruprecht		Room: Stolz 1
11.00	Dysfunction of Ciliary Transition Zone Proteins Leads to Body Curvature and Scoliosis in Zebrafish Haibo Xie	267
11.15	Rbm8a regulate ciliogenesis through PCP signaling pathway in zebrafish Ying Cao	343
11.30	The Importance of Being Empty: The Development of Brain Ventricles in the Context of Ion Channels and Gravity Vladimir Korzh	414
11.45	SIX1/4 Orchestration of Endodermal-Neural Crest Crosstalk Patterns the Craniofacial Skeleton Peter Fabian	157
12.00	Dissecting control of skeletal muscle growth by exercise, nutrition and the circadian clock: what people can learn from fish about staying fit. Simon Hughes	128
12.15	Zebrafish Semicircular Canal Development Requires the Serine Protease Tmprss5 Aaron Bailiff	448

Wednesday, July 8

Time	Title	Abstr. no.
Cardiovascular I		Room: Stolz 2
Chairs: Anabela Bensimon-Brito & Felix Gunawan		
11.00	Divergent Immune Programs in Diseased and Regenerating Cardiac Valves Anabela Bensimon-Brito	362
11.15	Flow-mediated endothelial remodelling and inflammation drive developmental vascular susceptibility in ldlr knockout zebrafish Aryan Kaveh	357
11.30	Fasting reverses PLN R14del-mediated cardiomyopathy through lysosomal reactivation Iris Gooijers	27
11.45	Smarca4 Maintains Mitochondrial Homeostasis and Energy Metabolism during Cardiac Development Deung-Dae Park	133
12.00	A Novel Computational Model of the Adult Zebrafish Action Potential and Intracellular Calcium Transient Jose F Rodriguez Matas	85
12.15	Transient Membrane Fusion Facilitates Metabolic Switching and Proliferation in Developing Cardiomyocytes Ilan Kotlar Goldaper	449
13.00	Tecniplast Talk: Husbandry refinement: new approaches to Zebrafish housing, feeding, breeding, enrichment and health monitoring	Stolz 1

Wednesday, July 8

Time	Title	Abstr. no.
Neurobiology Chairs: Corinne Houart & Koichi Kawakami Room: Strauss 2-3		
13.30	Early-Life Microbiota Shapes Neuro-Glia-Vascular Organisation and Hypothalamic Development in Zebrafish Koushika Chandrasekaran	368
13.45	Opening the gate: FishNAP in vivo screening identifies compounds that increase blood–brain barrier permeability Natasha O'Brown	11
14.00	The effects of oestrogen and estrogenic endocrine-disrupting chemicals on vertebrate brain development and health Aya Takesono	45
14.15	Gene regulatory programs in zebrafish enteric nervous system development Julia Ganz	445
14.30	Live Dynamics of Neurofilaments Pascale Bomont	193
14.45	The choroid plexus- cerebrospinal fluid system as a conduit for brain-wide signalling Preethi Rajamannar	75
15.00	Poster Session / Coffee break Odd numbered posters ending with A	(Exhibition Area)

Wednesday, July 8

Time	Title	Abstr. no.
Disease Models II Chairs: Peter Fabian & Liz Patton Room: Strauss 2-3		
17.00	Systematic Screening of Psychobiotic Bacteria in Zebrafish: Identification of Lacticaseibacillus brevis SBC8803 using a Refined Novel Tank Diving Test Yasuhito Shimada	67
17.15	Characterising zebrafish osteocytes in health and disease: a foundation for breakthrough discoveries in bone biology Erika Kague	325
17.30	A multi-species approach toward pharmacological treatment of POLG-related mitochondrial disorders Raquel Branas Casas	205
17.45	Dosage-sensitive 7q11.23 genes regulate the ontogeny of brain asymmetry and lateralized behaviour in zebrafish models of Williams-Beuren Syndrome Andrea Messina	16
18.00	Reverting mitochondrial dysfunction with a specific mPTP inhibitor triggers a pro-regenerative environment in the sapje model of DMD Marco Schiavone	78
18.15	Epigenesis (enters the stage) in a vascular anomaly Claudia Rödel	435

Wednesday, July 8

Time	Title	Abstr. no.
Epigenetics and Gene Regulation Chairs: Nadine Vastenhouw & Laura Lorenzo-Orts		Room: Stolz 1
17.00	Deciphering regulation and functional conservation of dormant ribosomes Josef Roehsner	238
17.15	Ancestral functions of genes regulated by imprinting in mammals: Characterising Meg Warden	369
17.30	The role of nuclear organization in transcription regulation Nadine Vastenhouw	268
17.45	Elucidating the role of the noncoding genome in heart development and diseases Cecilia Winata	422
18.00	Beyond Mean Effects: Maternal RNA Variability as an Adaptive Response to Environmental Stress Anastasiia Berezenko	66
18.15	Translational regulation of maternal mRNAs during early development Laura Lorenzo-Orts	468

Wednesday, July 8

Time	Title	Abstr. no.
Husbandry		Room: Stolz 2
Chairs: Karin Finger-Baier & April Freeman		
17.00	Longitudinal analysis of gonadal transformation dynamics in zebrafish grown individually András Bognár	319
17.15	The '1 Liter' issue: increased water volumes during routine matings have no overt beneficial impact on mating success or zebrafish well being Stefan Schulte-Merker	464
17.30	Unlocking Routine Facility Data as Welfare Indicators in Zebrafish Ana Borges	453
17.45	Refining breeding protocol and welfare monitoring for the African turquoise killifish <i>Nothobranchius furzeri</i> in laboratory settings Elena De Felice	95

Streisinger Award Lecture		Room: Strauss 2-3
18.30	Very efficient recovery of precisely edited alleles harboring multiple base substitutions David Grunwald (USA) <i>Human Genetics, School of Medicine, Salt Lake City</i>	

Conference Agenda

Thursday, July 9

	Strauss 2-3 (Plenary)	Stolz 1	Stolz 2
08.30	Evolution & Alternative Fish Models I		
10.00	Coffee break (Exhibition Area)		
10.30	Disease Models III	Tissue Formation	Neural Circuit and Behavior
12.00	CNV Award Lecture <i>Liz Patton (UK)</i>		
13.00	Lunch (Exhibition Area)		
14.00	Morphogenesis and Organogenesis II		
15.30	Coffee break (Exhibition Area)		
16.00	Metabolism	Toxicology II	Cell Fate
17.30	End		

Thursday, July 9

Time	Title	Abstr. no.
Evolution & Alternative Fish Models I		
Chairs: Manuel Zimmer & Itamar Harel		Room: Strauss 2-3
08.30	The medaka mutant hirame reveals YAP mechano-homeostasis: A mechanical feedback regulating vertebrate 3D body formation Itamar Harel	473
08.45	Comparative Neurogenomics in Holostean and Teleost Fishes Informs Brain Evolution by Whole Genome Duplication Ingo Braasch	346
09.00	Single-cell mapping of heterochrony to a species-specific phenotype Jess Bourn	139
09.15	Cellular innovations underlie the evolution of livebearing and placentation in Poeciliid fish Diego Safian	146
09.30	The livebearers platyfish and swordtails partially regenerate their hearts with persistent scarring Anna Jazwinska	228
09.45	A comparative study involving medaka and blind cavefish reveals a “dark” CPD photolyase function in DNA repair Nicholas S. Foulkes	340

Thursday, July 9

Time	Title	Abstr. no.
Disease Models III		Room: Strauss 2-3
Chairs: Natascia Tiso & Caghan Kizil		
10.30	Alternative Lengthening of Telomeres Defines a Mesenchymal and Immunogenic Cell State in Brain Tumors Marina Mione	18
10.45	Zebrafish-Based Functional Validation of a Novel TPM2 Variant Underlying Familial Clubfoot Akshaya Ramanujam	96
11.00	Modelling ER-stress in diabetes, a way to study β -cells health and identify new drug candidates Thomas Legier	141
11.15	Location-Dependent Differences in Cardiac and Skeletal Muscle Dysfunction Associated With Truncating Titin (ttn.2) Variants Yaniv Hinitz	358
11.30	The repair of DNA-protein crosslinks: Developing new disease models and identifying molecular causes of human diseases Marta Popovic	20
11.45	Single-Cell Cross-Species Profiling identifies Conserved Transcriptional Networks in Early Pancreatic Tumourigenesis Marianne Voz	33

Thursday, July 9

Time	Title	Abstr. no.
Tissue Formation		Room: Stolz 1
Chairs: Lilianna Solnica-Krezel & Kristen Kwan		
10.30	New imaging tools reveal insights into membrane and cytoskeletal remodelling during extra-embryonic yolk syncytial layer (YSL) formation Karuna Sampath	225
10.45	Rab8a-positive vesicles transport Wnt8a along cytonemes in zebrafish embryogenesis Gemma Sutton	90
11.00	Dual role of Notch signaling in sclerotome induction and migration independent of somite segmentation Emilio Méndez Olivos	390
11.15	A structural transition ensures robust formation of zebrafish skeletal muscle Timothy Saunders	172
11.30	Shroom3 controls vascular architecture by regulating contractile apparatus formation and constriction of zebrafish gill pillar cells Mathieu Preußner	10
11.45	Fgfr2 and Gpcr126 Receptors Form a Signaling AND Gate for Tissue Fusion in Zebrafish Semicircular Canal Morphogenesis Justine Ramos	249

Thursday, July 9

Time	Title	Abstr. no.
Neural Circuit and Behavior		Room: Stolz 2
Chairs: Hitoshi Okamoto & Filippo Del Bene		
10.30	Powerhouses in Motion: Mitochondrial Dynamics and Neuronal Health in AKAP1-Deficient Zebrafish Concetta Ambrosino	373
10.45	Neuroimmune Guardians? How Macrophages and Microglia Shape Stress Resilience Rina Eden Gavish	69
11.00	Functional Characterization of chrna2a-Expressing Interneurons in Zebrafish Forebrain Circuits Adrianna Skiba	106
11.15	The Cxcl14 chemokine is a novel guidance cue for inner ear pioneer axons Berta Alsina Español	64
11.30	Basal ganglia output destabilizes behavioral states and induces transition for the optimal behavioral choice Hitoshi Okamoto	404
11.45	Zebrafish as a Platform to Decode Microbiota-Dependent Neurodevelopment and Psychobiotic Mechanisms Jatin Nagpal	367

CNV Award Lecture		Room: Strauss 2-3
12.00	The journey from zebrafish melanocytes to melanoma Liz Patton <i>University of Edinburgh, UK</i>	

Thursday, July 9

Time	Title	Abstr. no.
Morphogenesis and Organogenesis II		Room: Strauss 2-3
Chairs: Tanya Whitfield & Andrew Oates		
14.00	An ex-vivo ovary system reveals novel regulators of early oogenesis: An mTOR–Stat3–Stathmin pathway controls oocyte centrosome and microtubule dynamics Amal Shawahny	260
14.15	Differential spreading behaviors of Nodal signalling molecules in the extracellular space cooperatively shape left-right asymmetry in zebrafish embryos Takafumi Ikeda	412
14.30	A density dependent jamming transition terminates convergence flows in zebrafish embryos Swetha Nagarajan	43
14.45	From dynamic morphogen gradients to complex tissue mechanics Lena Bohaumilitzky	203
15.00	Paracrine and endocrine regulation of ear pressure homeostasis by spatially restricted tissue failure Ian Swinburne	291
15.15	Tra2a-mediated alternative splicing in neighboring cells drives defective cell elimination to ensure tissue robustness Mai Miyake	25

Thursday, July 9

Time	Title	Abstr. no.
Metabolism Chairs: Jonathan Rodenfels & Maria Mione Room: Strauss 2-3		
16.00	Conserved metabolic awakening of embryos is governed by progressive cortical activation of mitochondria during reductive embryonic cell divisions Jonathan Rodenfels	
16.15	Dermal Fibroblasts as Local Metabolic Regulators in Zebrafish Skeletal Maintenance Lubomira Chmelova	147
16.30	Retrograde Peristalsis is Essential for Nutrient Utilization and Shapes Gut Microbiota in Zebrafish Fumihito Ono	186
16.45	Connexin 43 propagates the synchronicity of pancreatic beta cells initiated by neural signalling Carol Yang	314
17.00	Advancing Batten Disease Research: A Zebrafish In Vivo Discovery Platform Coupled with a Whole Animal LysoIP Method Ursula Heins Marroquin	237
17.15	A quantitative in vivo CRISPR-imaging platform identifies regulators of hyperplastic and hypertrophic adipose morphology in zebrafish James Minchin	364

Thursday, July 9

Time	Title	Abstr. no.
Toxicology II		Room. Stolz 1
Chairs: Daniel Gorelick & Barbara Budzynska		
16.00	Conserved developmental toxicity signatures of teratogenic chemicals in zebrafish embryos Hiromi Hirata	88
16.15	Loss of the Oatp1d1 Transporter Disrupts Pigmentation and Enhances PFOS Sensitivity in Zebrafish Lana Vujica	295
16.30	Establishing Zebrafish Embryo Model to Study Normal Tissue Sparing with Ultra-High Dose Rate Electron Beams Elif Tarakci	332
16.45	Impairment of mitochondrial functions on zebrafish embryonic development, following chronic low-dose exposure to gamma ionizing radiation Sarah Elie	41
17.00	Thalidomide metabolite, 5-hydroxythalidomide, is teratogenic in zebrafish Michael Love	239
17.15	Chemically-induced steatosis in zebrafish embryos after exposure to mixtures of cholestatic and steatotic compounds Manon Bouwmeester	198

Thursday, July 9

Time	Title	Abstr. no.
Cell Fate Chairs: Alex Schier & Katherine Rogers		Room: Stolz 2
16.00	Redox biology in retinal development: unraveling the role of the Nrf3/Prdx6 antioxidant axis in retinal stem cells fate and homeostasis Laura Belleri	26
16.15	sox10-derived progenitors trans-differentiation underly neuronal regeneration in the zebrafish retina after injury Bidhi Diwedi	409
16.30	Decoding the skeletal stem cell niche identity and its function in skeletal homeostasis Ziyaurrehman Marhama Sirajudheen	208
16.45	Sequential Dll4 and Jag1a signalling act cooperatively to drive haematopoietic stem cell fate specification Rui Monteiro	173
17.00	Optogenetic & sequencing strategies to decode developmental signaling Katherine Rogers	
17.15	Instant differentiation Alex Schier	

Conference Agenda

Friday, July 10

	Strauss 2-3 (Plenary)	Stolz 1	Stolz 2
08.30	Emerging Technologies II		
10.00	Coffee break (Exhibition Area)		
10.30	Stem Cells and Regeneration	Infection and Immunity	Evolution & Alternative Fish Models II
12.00	Community Session		
12.45	Lunch (Exhibition Area)		
13.45	Poster Session / Coffee break (Even numbered posters ending with B; Exhibition Area)		
15.45	YoRC Session	Germline and Early Development II	
17.15	Chi-Bin Chien Award Lectures <i>Yinan Wan (Basel, CH)</i> <i>Victoria Deneke (Vienna, AT)</i>		
18.15	Make your way to the Vienna Town Hall		
19.00	Reception Vienna Town Hall (Admission by ticket only)		

Friday, July 10

Time	Title	Abstr. no.
Emerging Technologies II Chairs: Patrick Müller & Merlin Lange		Room: Strauss 2-3
08.30	Building the reagent toolbox for the Cell Observatory David Matus	361
08.45	In Toto Lineage Analysis of Craniofacial Development in Zebrafish Hsuan Chen	183
09.00	Deep Learning-Driven 3D Tissue Prediction Frees Spectral Bandwidth and Automates Spatial Mapping in Zebrafish Embryo Chia-Teng Chang	419
09.15	From Imaging to Multiomics: building resources to explore zebrafish embryogenesis. Merlin Lange	
09.30	Developing single-cell retrospective transcriptomics to reveal the transcriptomic trajectories of individual neural stem and progenitor cells in vivo Iris Unterweger	153
09.45	Accelerating Zebrafish Research Using AI Agents: Open-Source Infrastructure and Tools Now Available for Any Lab Stephen Ekker	452

Friday, July 10

Time	Title	Abstr. no.
Stem Cells and Regeneration Chairs: Chen-Hui Chen & Kara Cervený		Room: Strauss 2-3
10.30	Adaptive immunity and inflammatory programs governing cardiac regeneration in adult zebrafish João Carneira da Silva	273
10.45	Cardiac-immune niches programme macrophage states in the regenerating heart Ehsan Razaghi	382
11.00	Definitive hematopoiesis and endocardial lineages establish distinct local immune reservoirs for cardiac regeneration Akerke Altaikyzy	454
11.15	Leveraging cellular niches to identify factors stimulating pancreatic beta-cell maturation/regeneration using zebrafish knock-in lines Olov Andersson	137
11.30	Ovarian modules in zebrafish and humans: A new morphogenetic framework for oocyte production from germline stem cells Neta Hart	176
11.45	Single-gene tuning of bioelectric signaling overrides organ size control and drives cross-species tissue regeneration Chen-Hui Chen	

Friday, July 10

Time	Title	Abstr. no.
Infection and Immunity Chairs: Annemarie Meijer & Philipp Niethammer Room: Stolz 1		
10.30	Differential subversion of host immune signalling by tuberculous and non-tuberculous mycobacteria Xiangyu Sui	184
10.45	Hormonal NOD-Sense: Estrogen's Role in Gut Equilibrium Mckenna Eklund	229
11.00	Spatio-temporal characterization of a native zebrafish virus and its interactions with innate immunity Jennifer Doherty	350
11.15	Receptor-Specific Regulation of LC3-Associated Phagocytosis During Staphylococcus aureus Infection Tomasz Prajsnar	442
11.30	Telomerase reverse transcriptase is required for resistance to mycobacterial infection Stefan Oehlers	19
11.45	ID2-TCF3-RAR γ axis in orchestrating eosinophil maturation Yiyue Zhang	457

Friday, July 10

Time	Title	Abstr. no.
Evolution & Alternative Fish Models II Chairs: Makoto Furutani-Seiki & Manuel Zimmer		
		Room: Stolz 2
10.30	An Antagonistically Pleiotropic Gene Regulates Vertebrate Growth, Maturity, and Lifespan Makoto Furutani-Seiki	345
10.45	Strain-specific mitochondrial alterations during brain aging in the African turquoise killifish Julien Lehmann	376
11.00	Extreme intermittent fasting: cellular mechanisms of starvation tolerance in cavefish Nicolas Rohner	214
11.15	Goal-directed behavior in the shell-dwelling cichlid <i>Lamprologus ocellatus</i> Swantje Grätsch	458
11.30	Social context modulates cell proliferation in zebrafish and fighting fish: oxytocin and social system effects Bianca Fusani	265
11.45	Developmental transcriptomics and chromosome-level assembly of the Arabian killifish as a novel biomedical model species Ruth Akinmusola	251
12.00	Community Session	Room: Strauss 2-3
13.45	Poster Session / Coffee break Even numbered posters ending with B	(Exhibition Area)

Friday, July 10

Time

Title

YoRC Session

Room: Strauss 2-3

15.45	SNUPN Loss Disrupts the Muscle Stem Cell Niche and Regeneration in Zebrafish Hilal Pırl Saraçoğlu
16.00	Laminin and fibronectin constrain endothelial self-organization to guide stereotyped zebrafish ISV sprouting Joaquin Abugattas
16.15	Zebrafish meningeal fibroblasts repress the chondrogenic program via Osr1 Stephen Gonzalez
16.30	Panel Discussion: Strategic Networking: How Research Communities Move Forward Annelies van Dyck, Eric Samarut, Anabela Bensimon Brito, Peter Fabian

Friday, July 10

Time	Title	Abstr. no.
Germline and Early Development II Chairs: Andrea Pauli & Yaniv Elkouby Room: Stolz 1		
15.45	The Balbiani Body forms through microtubule-controlled Buc condensation in early oogenesis Swastik Kar	313
16.00	Release of Balbiani body components during zebrafish oogenesis Laura Hofmann	109
16.15	Robust cytoplasmic partitioning in early embryogenesis Melissa Rinaldin	416
16.30	Maternal Huluwa regulates postfertilization microtubule array organization for asymmetrical transport of dorsal determinants in zebrafish Xin Liu	154
16.45	Control over Dead end 1 and Nanos 3 translation and transcription: its role in germ-cell fate maintenance Katsiaryna Tarbashevich	334
17.00	Daily rhythmicity and nocturnal spermatogenesis in the zebrafish testis Han Wang	99

17.15	Chi-Bin Chien Award 2026 Whole-embryo spatiotemporal transcriptomics in zebrafish embryogenesis Yinan Wan (Basel, CH)	Room: Strauss 2-3
	Chi-Bien Chien Award 2025 The Key to Life. How the SPARK Complex Unlocks Vertebrate Fertilization Victoria Deneke (Vienna, AT)	

Conference Agenda

Saturday, July 11

	Strauss 2-3 (Plenary)
09.00	KEYNOTE Elly Tanaka: Evolving and regenerating limbs
10.00	Coffee break (Exhibition Area)
10.30	Cardiovascular II
12.00	Adjourn
12.30	Lunch (Exhibition Area)

Saturday, July 11

Time	Title	Abstr. no.
KEYNOTE		Room: Strauss 2-3
09.00	Evolving and regenerating limbs Elly Tanaka <i>Institute of Molecular Biotechnology (IMBA), Vienna, Austria</i>	
Cardiovascular II		Room: Strauss 2-3
Chairs: Didier Stainier		
10.30	Basement membrane integrity orchestrates valve morphogenesis and tissue mechanics in the developing heart Felix Gunawan	
10.45	Cardiovascular calcification in α -klotho mutants is triggered by phosphate-mediated endothelial apoptosis Nuno Silva	335
11.00	Wif1-mediated fine-tuning of Wnt signalling drives vascular refinement in the Zebrafish myelencephalic choroid plexus Samuele Sartori	356
11.15	Sphingosine-1 phosphate signaling regulates blood-brain barrier tightness through IQGAP1 phosphorylation Romana Scheffel	287
11.30	Regulation of growth factor responsiveness in quiescent endothelium Sophie Hötte	160
11.45	Defining the molecular mechanisms downstream of Vegfc-Vegfr3 signaling regulating endothelial cell sprouting Di Peng	333
12.00	Adjourn	Room: Strauss 2-3



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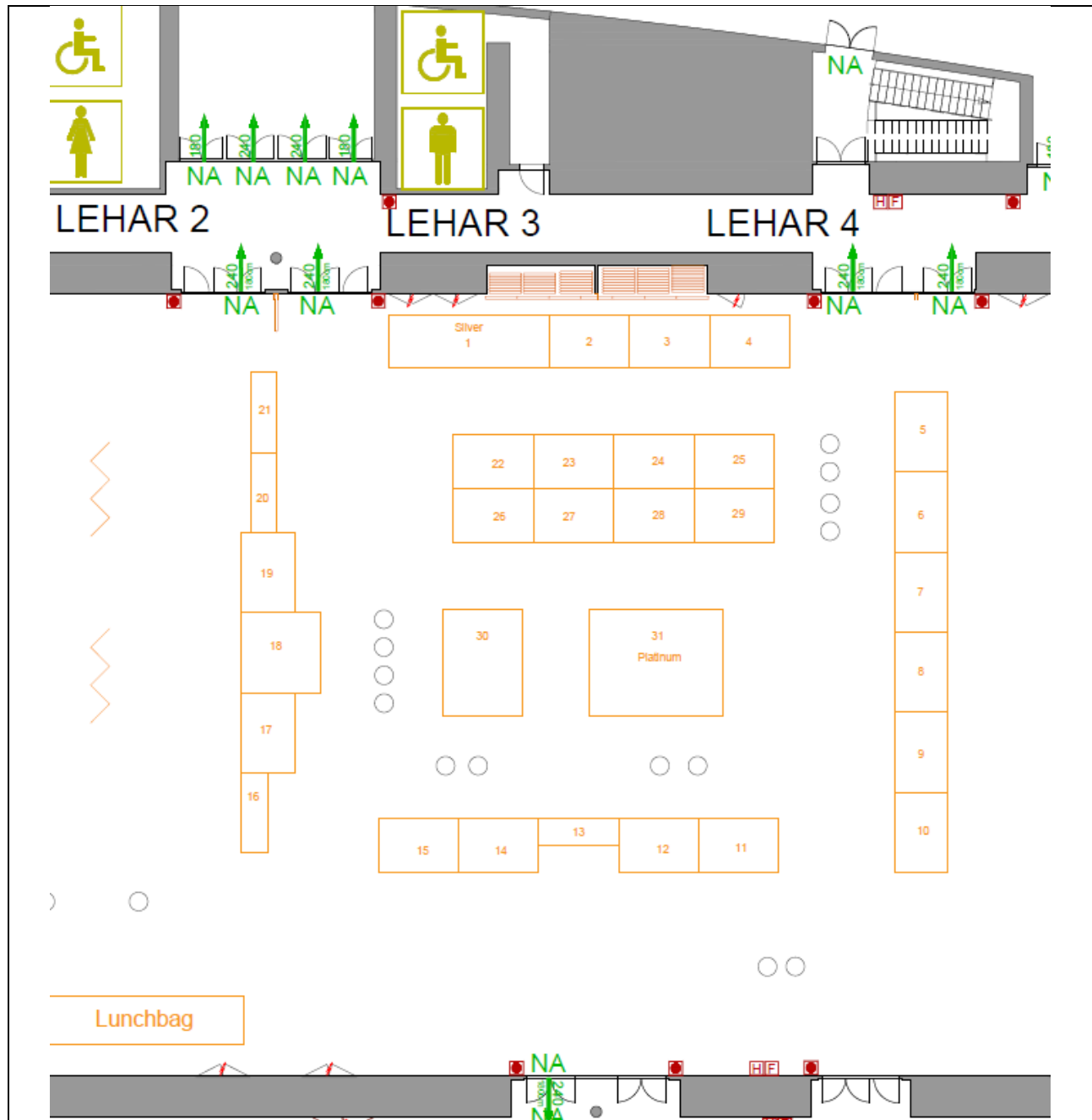


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