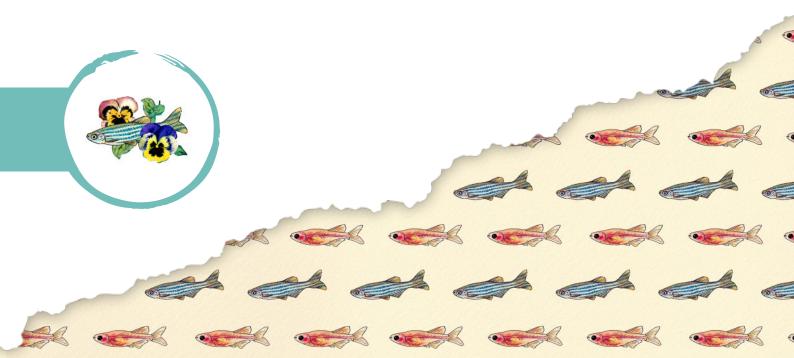


12th

EUROPEAN ZEBRAFISH MEETING

Krakow • 9-13 July • 2023

Abstract Book





TRITONE XS

GREAT THINGS come in SMALL BOXES

Come and discover it at Tecniplast booth in the exhibition area



Welcome

Hello,

On the behalf of the Polish Zebrafish Society, Local Organizing Committee and the International Scientific Board I would like to warmly welcome you on the 12th European Zebrafish Conference.

We all hope that this conference will meet your expectations of a good scientific forum for the idea exchange, networking and establishing new and fruitful collaborations. We welcome you in the beautiful city of Krakow and do hope your time here will be memorable both scientifically and recreationally.

Very kind regards,





Przemko **Tylzanowski** Chair of Polish Zebrafish Society

On behalf of the European Zebrafish Society (EZS), I am delighted to welcome you to the 12th European Zebrafish Meeting, which we are organizing together with our friends from Poland. It has been a wonderful tradition to host these large international meetings in different places across Europe, and for many of us it will be a first visit in beautiful Krakow. I am personally very much looking forward to the meeting, and the opportunity to meet so many colleagues in person again.

As the other meetings before, this meeting will have its own local flavor, but the unifying scheme over the years is the excellent and topically diverse science that is on display. As usual, we have a full program with plenary and parallel sessions, workshops and award lectures. This year, we also have our first EZS Young Researcher session, and there are additional measures to support PhD students, post-doctoral fellows and junior staff. I would also like to thank the sponsors and exhibitors, who play a vital role at these meetings and continue to support these conferences.

It will be an intense few days of scientific and social interactions, and I hope you will enjoy the meeting!

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Very best wishes,



Stefan Schulte-Merker Chair of European Zebrafish Society

Conference

Useful informations

Conference venue

The EZM2023 will be held in Auditorium Maximum of Jagiellonian University (Krupnicza 33, 31-123 Kraków, Poland). The registration desk is located next to the entrance on the ground floor. The oral presentations will be held in three lecture theatres (Large, Medium and Small Hall). The posters will be presented in three rooms located at 2nd floor of the venue (Exhibition, Seminar and Conference Room). Coffee breaks and lunches will be served in the Lower Level of the venue where our Industry Sponsors and Exhibitors are also located. We expect around 500 delegates from 37 countries.

Internet connection

WiFi Access for Conference Participants is provided throughout the building. You can log in via eduroam or using details below.

Network name: UJ_WiFi

Login: maximumwifi@uj.edu.pl

Password: EZM2023@UJ

Public transport

Public transport in Krakow (city buses and trams) operate frequently and there is a dense connection grid covering most of the city. The closest bus stop to the Conference Venue is called "AGH/UR" (polish acronyms of University of Science and Technology (AGH) and University of Agriculture (UR) nearby), whereas the closest tram stop is called "Teatr Bagatela" (Bagatela Theatre). The single tickets cost 4 and 6 PLN for 20

and 60 minute ride, respectively. The route planner can be found at https://jakdojade.pl/krakow/trasa. Tickets can be purchased online through Mobilet (https://www.mobilet.pl/) and SkyCash (https://www.skycash.com/) or at ticket machines located next to the many bus and tram stops, and on most buses and trams.

Climate & Time

Poland is located in a moderate climate zone and is dominated by four distinct seasons. The average July's temperature in Kraków is approximately 19°C with daytime temperatures of 20-25°C. Poland's time zone in July is UTC +2 (Central European Summer Time).

Currency

The official currency of Poland is "Złoty" (PLN). The current approximate conversion rate is 1 EUR = 4.4 PLN. Most hotels and restaurants will accept major credit and debit cards without the need of getting the Polish currency. You can find exchange offices ("Kantor") to purchase the currency in Krakow city centre however some of them do not provide appropriate exchange rates.

Health Insurance

All visitors are advised to have valid international insurance before coming to Poland. Citizens of the EU are insured with their EHIC (European Health Insurance Card).

Electricity

The electrical power supply in Poland is 230 V, 50 Hz. The standard European plugs (two round pins) are used.

Social events

1. Welcome Reception

The EZM2023 Organizers would like to invite all conference participants to join us for a Welcome Reception with drinks and snacks on Sunday evening which will be held from 18:30 at the Lower Level of Auditorium Maximum. This event will be a great opportunity to socialise, network and engage with our many industry sponsors and exhibitors.

Venue: Auditorium Maximum, Lower Level **Time**: Sunday 9th July 2023 at 18:30 – 20:30





2. YoRC Social Event

Join us for an informal social evening organized by the Young Researcher Committee (YoRC) of the European Zebrafish Society, at the Kufle i Widelce Craft Beer & Food!

At the heart of Stare Miasto, Krakow's vibrant old town, this will be an excellent opportunity to mingle and discuss with colleagues (including YoRC members Max, Tim, Annelies, Vania and Konstantinos) over a great selection of polish craft beers, dinner and zebrafish (science)!

It will also be a great opportunity to 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!

Venue: Kufle i Widelce Craft Beer & Food

Czysta 3/2, Krakow 31-121 Poland,

tel. +48 535 799 666, http://kufleiwidelce.pl

Time: Monday 10th July 2023 at 20:00



First drink is FREE (sponsored by the EZS)!

Hurry and secure your spot on the day, as the free-drink vouchers will be given away on a first-come, first-served basis! We can't wait to have you with us!

3. Gala Dinner

For those of you who enrolled for the Conference Dinner (Full Registration), we would like to invite for our Gala dinner. A transfer by coaches will be provided to the venue from Auditorium Maximum entrance at 19:00 on Wednesday. Transfers from the venue back to Auditorium Maximum will be provided from 21:30 to 23:30.

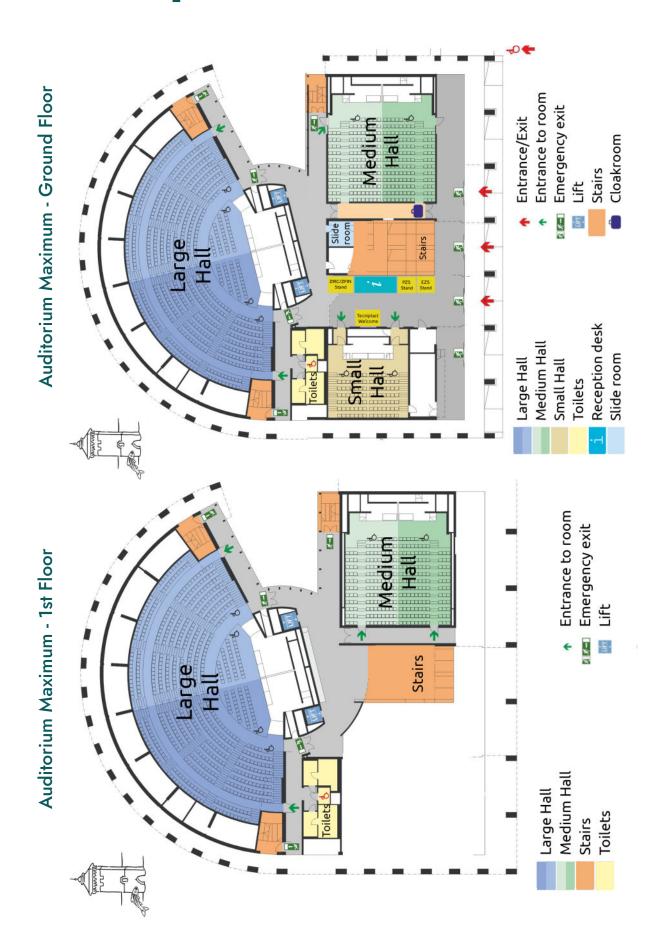
Time: Wednesday 12th July 2023 at 19:00 – 23:30

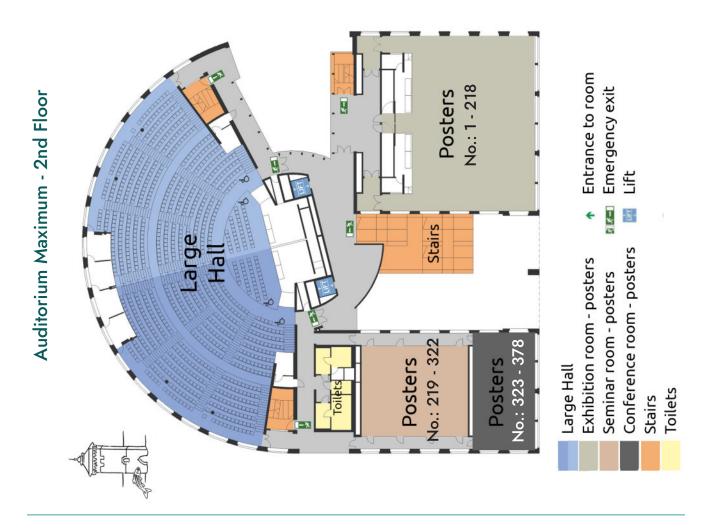






Floor plans





 The detailed plan of Exhibition area and catering facilities is on page 41.

International Advisory Board

Przemko Tylzanowski

Medical University of Lublin, Poland University of Leuven, Belgium

Stefan Schulte-Merker

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Mate Varga

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International Institute of Molecular and Cell Biology in Warsaw Poland











Local Organizing Committee

Przemko Tylzanowski

Medical University of Lublin, Poland University of Leuven, Belgium



University of Warmia and Mazury Olsztyn, Poland



University of Wroclaw Poland



Jagiellonian University Kraków, Poland



Tomasz Prajsnar

Jagiellonian University Kraków, Poland



Krzysztof Rakus

Jagiellonian University Kraków, Poland





Institute of Physiology and Pathology of Hearing, Warsaw, Poland







Polish Zebrafish Society (PSZ) (pol. Polskie Towarzystwo "Zebrafish" – PTZ) – founded in 2018 to promote cooperation among people performing research on zebrafish in Poland and abroad.

Besides the scientific collaboration, organizing workshops and conferences, the Society supports science education, popularization and promotion of zebrafish model organism for the general public. Currently PZS counts over 70 members. Please see our stand next to the Conference Reception at the Ground Level.

E-mail: zebrafish.pl@gmail.com

Website: http://zebrafish.org.pl/







Jagiellonian University in Krakow (UJ) – the oldest university in Poland, founded in 1364, and one of the oldest universities in Europe.

With 16 faculties, over 37000 students, 48 00 of academic researchers and state-of-the-art infrastructure, Jagiellonian University is one of the leading Polish scientific institutions, collaborating with major academic centres from all over the world.

E-mail: welcome@uj.edu.pl

Website: https://www.uj.edu.pl/

Keynote Speaker



Magdalena Zernicka-Goetz

- 1. Professor of Development and Stem Cells at the University of Cambridge;
- 2. Bren Professor of Biology and Biological Engineering at the California Institute of Technology

Research Summary:

Developmental plasticity, cell fate specification and morphogenesis in the mouse and human embryo

Keynote lecture

Stem Cell-derived embryo models from stem cells: principles of self-organization

Magda Zernicka-Goetz and her research team are unveiling new things about early embryonic cells — stem cells are not without bias — actually stem cells have proclivities and will tend to become one sort of cell or another. These proclivities are plastic and can change if need be — in other words yes, they are pluripotent and versatile, but it's not entirely "all the same" to an embryonic stem cell what it becomes.

Monday, July 9th | 18:30 - 19:30 Large Lecture Hall

Information for Authors

Posters

The posters are numbered based on your abstract number (please see your number at the EZM2023 website Registration System or in the Abstract Book). You can mount your poster on Sunday (18:00-20:00) and Monday (9:00-12:00) in one of the 2nd floor rooms indicated below:

- Exhibition Room (poster numbers 1 218)
- Seminar Room (poster numbers 219 322)
- Conference Room (poster numbers 323 378)

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:

- Monday (10th July 2023) Poster Session (15:00-17:00) odd numbered posters
- Wednesday (12th July 2023) Poster Session (14:00-16:00) even numbered posters
- Sunday (9th July 2023) from 18:30 to Thursday (13th July 2023) until 13:30 open poster viewing

Oral Presentations

Please make sure to bring your presentation file written on a USB flash drive. All speakers are kindly requested to provide their presentation file to the AV technicians in the Slide Room (located on the ground floor) at least 1 hour before the beginning of the corresponding session.

0254

EXPRESSION PROFILE OF ANKRD1A DURING REPAIR OF INJURED ZEBRAFISH SKELETAL MUSCLE

Milovanovic Mina¹, Boskovic Srdjan ¹, Jasnic Jovana¹, Novkovic Mirjana¹, Milosevic Emilija¹, Kojic Snezana¹

¹ Group for Muscle Cellular and Molecular Biology, Institute of Molecular Genetics and Genetic Engineering, University of Belgrade, Serbia

In our previous work, using transgenic zebrafish line TqBAC(ankrd1a:EGFP), we showed activation of the zebrafish ankrd1a gene in border zone cardiomyocytes of cryoinjured heart and in close proximity of needle-stab wounds in skeletal muscle, indicating its involvement in muscle regeneration. Our results implicated ankrd1a in zebrafish skeletal muscle tissue repair and remodeling, as a sensor of stressed muscle. Here we take a closer look at the spatio-temporal expression profile of the ankrd1a gene in injured zebrafish skeletal muscle by analyzing cryosections prepared from wounded tissue of TqBAC(ankrd1a:EGFP) adults at 1, 3, 5, 7 and 10 days post-injury (dpi). The expression of the fluorescent reporter was observed from 3 dpi and remained until 10 dpi. At 3dpi, new GFP-positive muscle cells emerged inside the injury zone, at the site of needle entry, while in the later days (5, 7 and 10 dpi), newly formed GFP-positive myofibers were visible in the deeper tissue layers within the injury, indicating active repair of the injured tissue. To identify cells in which ankrd1a is activated after injury, we stained the sections for markers of satellite-like cells, undifferentiated and differentiated muscle cells, and mature myofibers. Since the reporter was detected both in the newly formed myofibers that invade the wound and in the apparently uninjured tissue surrounding the injury, we hypothesize that ankrd1a is not only involved in satellite celldependent tissue repair, but its expression might be a hallmark of adaptive process in undamaged myofibers surrounding the physical injury.

First-choice session: Stem Cells and Regeneration Second-choice session: Stem Cells and Regeneration



