



18TH INTERNATIONAL ZEBRAFISH CONFERENCE

KYOTO, JAPAN | AUGUST 17-21, 2024

Welcome to the 18th International Zebrafish Conference!

Dear colleagues:

On behalf of the International Zebrafish Society (IZFS), and the organizing committee, it is our great pleasure to welcome you to the beautiful city of Kyoto for the 2024 International Zebrafish Conference (IZFC2024). The conference program reflects the wide scope of scientific activities taking place in the worldwide zebrafish research community.

IZFC2024 continues the strong tradition of bringing together researchers from all over the world using fish as a model organism (zebrafish and others) to study a wide range of different scientific questions, through both formal scientific sessions and equally important informal social gatherings, this year including a final banquet with cultural entertainment. We hope that the time you spend at this conference will be both exciting and enlightening!

The meeting has benefited from a dedicated and insightful organizing committee including Miguel Concha, Hiromi Hirata, Tohru Ishitani, Florence Marlow, Didier Stainier, Han Wang and Karina Yaniv. We would like to personally thank our hardworking organizers for putting together such an engaging scientific program. The organizers' emphasis on including presentations from trainees and junior investigators in the concurrent and plenary sessions has provided extensive opportunities for up-and-coming younger investigators to highlight their research findings and gain recognition from scientific colleagues. It's a key conference feature that always makes them so dynamic and exciting!

This meeting was made possible by close collaboration with the Japanese research community. By organizing the Japan IZFC Preparation Committee, they have been enthusiastically engaged in preparing for this meeting, including venue selection, planning practical matters to make all sessions and events successful, and raising funds from local private and public sources. We deeply thank them for their great efforts.

The support for IZFC2024 has been exceptional, with funds coming from a broad range of institutions, societies, foundations, companies, and organizations. The IZFS is extraordinarily grateful to all of our conference sponsors for their support – this conference would be impossible to carry out without not only their financial support but also their active participation. Each of the twenty-two IZFC2024 partners is providing useful information on their products and services available to meeting attendees. Check them out!

The IZFS is also proud to honor our awardees at IZFC 2024: Judith Eisen of the University of Oregon Institute of Neuroscience, recipient of the George Streisinger Award, and D'Juan Farmer, University of California, Los Angeles, recipient of the Chi-Bin Chien Award. Congratulations Judith and D'Juan! In addition to our two "signature" awards the IZFS is also giving travel awards to 33 IZFS members to provide them with assistance to attend this conference, and we will be giving out 8 poster awards acknowledging the research accomplishments of many more of our junior members!

We hope that these few days in Kyoto will be an opportunity to promote collaborations, strengthen your research, and get connected with known and new colleagues.

Thank you very much for joining us at IZFC2024!

Corinne Houart (President & Chair) and Hitoshi Okamoto (Co-Chair)

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Welcome Note from the Japan IZFC Preparation Committee

We want to extend our warmest welcome to you for coming to Kyoto to participate in the IZFC2024. We chose Kyoto as the venue of this meeting not only for its long history as the capital of Japan for 1000 years but also for its significant role in the development of science and technology. Kyoto, with its unique blend of tradition and innovation, is a perfect place for our meeting. We hope you enjoy the special culture of Kyoto as the intersection of old and new during your stay.

The Japanese have a long tradition of breeding small fish such as medaka and goldfish as a hobby and using them for biological research. Therefore, since zebrafish research was introduced into Japan, researchers studying zebrafish and medaka have created a shared community to hold the annual conference of small fishes, which is referred to as Japanese Medaka and Zebrafish Meeting. This cooperative spirit has brought about many unique achievements including the medaka-derived Tol2 transposon, which is applicable to transgenesis in zebrafish. Honoring this tradition, zebrafish and medaka researchers in Japan have worked together in the local preparation committee for the IZFC2024 to make this meeting exciting, enjoyable, and fruitful. Each committee member has worked hard to raise funds from local resources, plan the layouts of the venue, and set up minutes for sessions and banquets, among others. We deeply appreciate for their great deal of support.

In late August, after the Daimonji Fire Festival, Kyoto will still be sweltering hot and humid outdoors. But we hope you enjoy hot discussions on cool results indoors.

On behalf of the Japan IZFC Preparation Committee, Hitoshi Okamoto, MD, PhD, Hiromi Hirata, PhD and Tohru Ishitani, PhD

18th IZFC Organizing Committee



Corinne Houart, PhD Chair of the 18th IZFC President of the IZFS King's College London



Hitoshi Okamoto, MD, PhD Co-Chair of the 18th IZFC RIKEN Center for Brain Science



Miguel Luis Concha, PhD Universidad de Chile



Didier Stainier, PhDMax Planck Institute of Heart
and Lung Research



Hiromi Hirata, PhD Aoyama Gakuin University



Han Wang, PhDCenter for Circadian Clocks,
Soochow University



Tohru Ishitani, PhD Osaka University



Karina Yaniv, PhDWeizmann Institute of Science



Florence Marlow, PhD Icahn School of Medicine Mount Sinai

18th IZFC Local Organizing Committee

Satoshi Ansai Kyoto University Kazuhide Asakawa National Institute of Genetics Toshikatsu Hanada

Oita University **Masahiko Hibi** Nagoya University

Shinichi HigashijimaNational Institute for Basic Biology

Motoyuki Itoh
Chiba University
Koichi Kawakami
National Institute of Genetics

Kazu Kikuchi
National Cerebral and

Cardiovascular Center Shosei Kishida

Kagoshima University **Jun Kitano**

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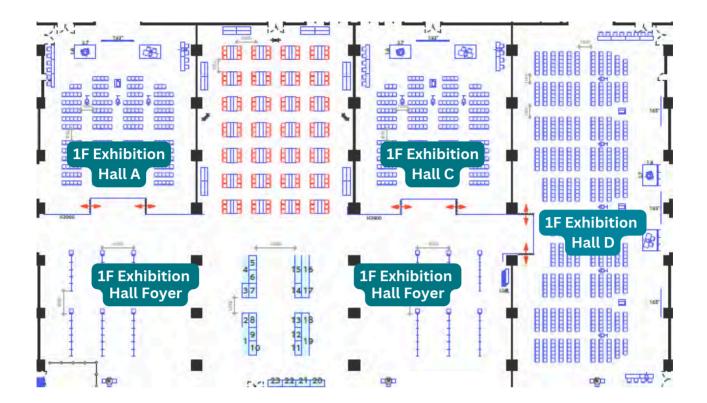
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Kumamoto University
Sachiko Tsuda

Saitama University **Hironori Wada**Kitazato University

Saori Yokoi Hokkaido University

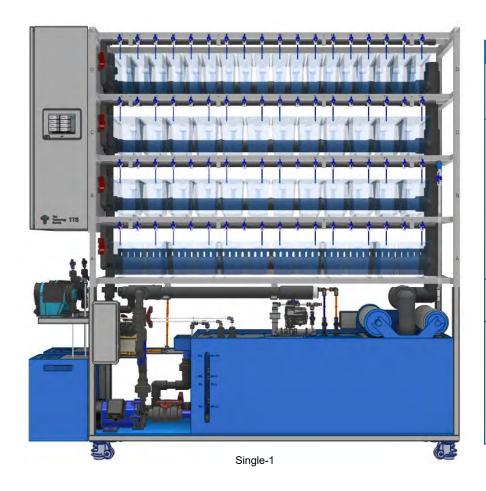
Miyako Messe Map



Exhibitor Booths

Aquaneering	19
BEX	2
CEM Japan	21
EVIDENT	15
IDEA Bio-Medical	5
IWAKI	7
Life Science Methods	14
Luxendo GmbH, Bruker Florescence Microscopy	12
Meito Suien	
NBRP Medaka	9
NBRP Zebrafish	10
Nikon Solutions	4
Oxford Instruments	23
Pneum Co., Ltd	6
Sparos Lda	8
Sutter Instruments	16
Tecniplast	18
Thorlabs	1
TTS	22
Union Biometrica	17
ViewPoint Life Sciences	13
Zantiks	
7aice	3

Explore Our Cutting-Edge Aquaculture System for Zebrafish, Xenopus, and Other Aquatic Organisms, Tailored for Research Facilities of All Dimensions!!!



Aquaculture system Overview

Step 1 Water filtration

- Automatic rolling mechanic filter
- Biofilter

Step 2 Water quality control

- System sensors: pH, Conductivity,
 Temperature, Water level
- Water-quality controllers: Heater,
 Chiller(Option), DO(Option)
- Automatic dosing Equipment:
 Buffer tanks(pH and Conductivity),
 Reverse osmosis water filter

Step 3 System water sterilization

UV lamp

Step 4 System maintenance

- Circulation Pump
- Overflow Piping
- Automatic water supply
- Automatic drain
- System monitor and controller

Automatic Rolling Mechanic Filter



- 25µm, 50µm, and 100µm filter roll
- Self-checking filter status:
 When water does not flow through the filter, it automatically replaces to a new filter.
- Filter roll replacement alert
- Recommended replacement interval:
 One Roll Every 2 to 3 Months
- Easy replacement of a filter roll

Control panel



- Monitoring parameters :
 pH, Conductivity, DO, Water temperature,
 filter usage, Water level
- Scheduling of daily water exchange
- Alert system
- 5 inch touch screen

Water inlet valve for the tank



 Quick-Connect System: Tool-free valve and tube replacement







HOUSING TANKS & ACCESSORIES



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3L



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- Fry screen 400 micron
- Fry screen 800 micron
- Adult Baffle

- Housing tanks and baffles
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 - autoclavable
 - Designed with coloration to reduce algae growth
 - Indicators for normal water level and baffle change
- These three housing tanks can be applied to any racks that we provide.

HOUSING SOLUTIONS









Small

Single-2

Double-1 <Front>

Double-1 <Rear>







Double-2

Double-3

Automatic Feeding system

Model	Small	Single-1	Single-2	Double-1	Double-2	Double-3
Water Tank	Min 4 raws Max 7 raws	Min 4 raws Max 7 raws	Min 4 raws Max 6 raws			
1.5L	9×4 raws=36ea	18×4 raws=72ea	18×4 raws×2=144ea	18×4 raws×2=144ea	18×4 raws×4=288ea	18×4 raws×6=432ea
3L	6×4 raws=24ea	12×4 raws=48ea	12×4 raws×2=96ea	12×4 raws×2=96ea	12×4 raws×4=192ea	12×4 raws×6=288ea
7L	3×4 raws=12ea	6×4 raws=24ea	6×4 raws×2=48ea	6×4 raws×2=48ea	6×4 raws×4=96ea	6×4 raws×6=144ea

- The Double-1 model can be upgraded to Double-2 and Double-3 without needing an additional control panel or dosing equipment.
- We offer 17L and 25L tanks suitable for Xenopus, and we can customize tanks of other sizes upon request.
- Upon customer request, the water quality control system can be tailored to meet specific needs.

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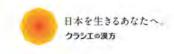


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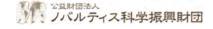
Grant Support













Saturday, August 17

2:00PM - 3:00PM REGISTRATION AND CHECK-IN

1F Exhibition Hall Foyer

3:00PM - 4:00PM
OPENING REMARKS &
KEYNOTE LECTURE
1F Exhibition Hall D

Mechanism Research on Epigenetic Regulation of Reproductive Development from Model Animals to Human Beings

Jie Qiao, MD, PhD

Moderator: Han Wang, PhD

4:00PM - 5:30PM

PLENARY I

1F Exhibition Hall DModerators: Miguel Luis
Concha, PhD & Florence
Marlow, PhD

5:30PM - 7:00PM OPENING RECEPTION

1F Exhibition Hall Foyer *Drinks & Hors d'Oeuvres*

Download the IZFC Meeting App!



Access Code: 2024zebrafish

Sunday, August 18

8:30AM - 10:00AM CONCURRENT SESSION I

EARLY DEVELOPMENT, MORPHOGENESIS AND PATTERNING I

1F Exhibition Hall DModerators: Amber Stratman,
PhD & Li-Kun Phng, PhD

CARDIOVASCULAR

1F Exhibition Hall AModerators: Drew Robson,
PhD & Takashi Kawashima, PhD

CIRCUITS AND BEHAVIOR

1F Exhibition Hall CModerators: Tohru Ishitani,
PhD & Gage Crump, PhD

10:00AM - 10:30AM COFFEE BREAK 1F Exhibition Hall Foyer

10:30AM - 12:00PM PLENARY II

1F Exhibition Hall DModerators: Kelly Monk, PhD &
Chengtian Zhao, PhD

12:00PM - 1:00PM LUNCHEON I SPONSORED BY TECNIPLAST

1F Exhibition Hall D Lrrn2 and Lrrn3a Cell Adhesion Molecules Govern Precise Retina-Tectal Circuit Formation in the Zebrafish Visual System Filippo Del Bene, PhD

1:00PM - 2:45PM POSTER SESSION I

1F Exhibition Hall Foyer Topics: Cell Biology, Circuits & Behavior, Infection & Immunity, Neurobiology, Other and Reproduction

3:00PM - 4:00PM WORKSHOP SESSION I

ALTERNATIVE SMALL FISH MODEL: A UNIQUE OPPORTUNITY FOR FRONTIER BASIC AND APPLIED RESEARCH 1F Exhibition Hall D SHAPING THE FUTURE OF EARLY-CAREER ZEBRAFISH RESEARCHERS 1F Exhibition Hall A

SWIMMING TOGETHER TOWARDS A SUSTAINABLE FUTURE

1F Exhibition Hall C

4:00PM - 4:45PM COFFEE BREAK

1F Exhibition Hall Foyer

4:45PM - 5:30PM

GEORGE STRESINGER AWARD LECTURE

1F Exhibition Hall D

Making Connections for a Life in Science

Judith Eisen, PhD

Moderator: Hitoshi Okamoto, MD, PhD

5:30PM - 7:00PM PLENARY III

1F Exhibition Hall Foyer Moderators: Hiromi Hirata, PhD & Feng Liu, PhD

Monday, August 19

8:30AM - 10:00AM CONCURRENT SESSION II

NEUROBIOLOGY I

1F Exhibition Hall DModerators: Hitoshi Okamoto,
MD, PhD & Jennifer Li, PhD

ORGAN BIOLOGY

1F Exhibition Hall AModerators: Zhaoxia Sun, PhD
& Ken Poss, PhD

REPRODUCTION: GERMLINE, SEX DETERMINATION & REPRODUCTIVE HEALTH

1F Exhibition Hall CModerators: Yaniv Elkouby,
PhD & Satoshi Ansai, PhD

10:00AM - 10:30AM COFFEE BREAK

1F Exhibition Hall Foyer

10:30AM - 12:00PM CONCURRENT SESSION III

EMERGING TECHNOLOGIES

1F Exhibition Hall DModerators: Shiaulou Yuan,
PhD & Sean Megason, PhD

CELL BIOLOGY

1F Exhibition Hall AModerators: Gage Crump, PhD
& Steffen Scholpp, PhD

DISEASE MODELS

1F Exhibition Hall CModerators: Hideaki Matsui,
PhD & Kazuhide Asakawa, PhD

12:00PM - 1:00PM LUNCHEON II SPONSORED BY EVIDENT

1F Exhibition Hall D
Unveiling Circulatory Organ
Development and Homeostasis
through In Vivo Fluorescence
Imaging
Hiroyuki Nakajima, PhD

12:00PM - 1:00PM LUNCHEON II

SPONSORED BY THORLABS

1F Exhibition Hall A
Tiltable Objective Microscope: A
New Approach to Imaging Head
Motion Transduction in Larval
Zebrafish
Masashi Tanimoto, PhD

1:00PM - 2:45PM POSTER SESSION II

1F Exhibition Hall Foyer

Topics: Cardiovascular, Disease Models, Emerging Technologies, Evolution & Comparative Biology, and High Throughput Whole Organism Research

3:00PM - 4:00PM

KEYNOTE LECTURE

1F Exhibition Hall D
Searching for Principles of
Tissue Regeneration and
Aging in Mammalian Skin
Emi K. Nishimura, MD, PhD
Moderator: Tohru Ishitani, PhD

4:00PM - 4:45PM COFFEE BREAK 1F Exhibition Hall Foyer

4:45PM - 5:30PM
CHRISTIANE NÜSSLEINVOLHARD AWARD LECTURE
1F Exhibition Hall D
Left Side Story - a Tale of
Genes, Eyes and Developing
Brains
Stephen Wilson, PhD

Moderator: Gil Levkovitz, PhD

5:30PM - 7:00PM PLENARY IV

1F Exhibition Hall DModerators: Edan Foley, PhD
& Yonghua Sun, PhD

TRITONE XS

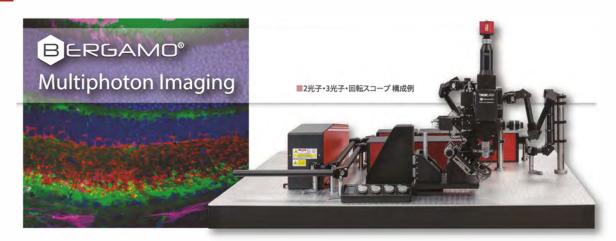
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多光子顕微鏡プラットフォーム Bergamo II

多様な実験用途に対応 - モジュール式多光子顕微鏡システム



特長

- 最先端 in vivoイメージングを実現する3つのオプション
 - ベッセルビームを用いた高速ボリューム画像取得
 - 800~1800 nmの広帯域をカバーする3光子励起用光学系
 - 空間光変調器(SLM)を用いた同時多点光刺激
- 実験用途に合わせて顕微鏡を構成できる高い柔軟性
- 回転スコープ仕様はあらゆる角度から試料を観察(Δ θ 最大100°)
- 共焦点イメージング機能を追加可能
- 複数のスキャナを有するデュアル走査システムに対応



■ 主なオプション一覧

- ・シングル/デュアル走査
- ・ガルバノ-レゾナント、ガルバノ-ガルバノ、 レゾナント-ガルバノ-ガルバノ(RGG)スキャナ
- ・空間変調モジュール(SLM)を用いた同時多点光刺激
- ベッセルビームを使用したボリュームイメージング
- ・スーパー広帯域補正走査光学系:
 - 光刺激/光照射アンケージング
 - 2光子・3光子イメージング

顕微鏡本体の移動制御

- 用途に応じて3種から選択(XYZ+回転、XYZ、Z)
- ペリスコープがレーザーアライメントを維持
- モーションコントロール用アクセサリ
 - ピエゾ式対物レンズホルダ
 - ・XYプラットフォーム
 - Z軸ピエゾステージ

■ PMT検出モジュール

- · 冷却または非冷却 GaAsP PMT
- ・最大4チャンネルの同時反射検出系
- ・透過2チャンネルの同時透過検出系

● ワイドフィールド観察・撮像

- 三眼鏡筒およびサイエンティフィックカメラ
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Tuesday, August 20

8:30AM - 10:00AM **CONCURRENT SESSION IV**

NEUROBIOLOGY II

1F Exhibition Hall D Moderators: Jason Rihel, PhD & Nathalie Jurisch-Yaksi. PhD

PHYSIOLOGY & METABOLISM

1F Exhibition Hall A Moderators: Rachel Brewster. PhD & Andrew Cox, PhD

REGENERATION

1F Exhibition Hall C Moderators: Mathilda Mommersteeg, PhD & Alessandro De Simone, PhD

10:00AM - 10:30AM **COFFEE BREAK**

1F Exhibition Hall Foyer

10:30AM - 12:00PM **PLENARY V**

1F Exhibition Hall D Moderators: Didier Stainier, PhD & Yonghua Sun, PhD

12:00PM - 1:00PM **LUNCHEON III SPONSORED BY ZEISS**

1F Exhibition Hall A From Terabytes to Insights: Utilizing arivis Software for **Advanced Zebrafish Embryo Visualization and Analysis** Delisa Garcia, PhD

12:00PM - 1:00PM **LUNCHEON III SPONSORED BY NIKON SOLUTIONS**

1F Exhibition Hall D Discovery of a Novel Intracellular **Degradation System Using Zebrafish and Mice** Hideaki Morisita, PhD

1:00PM - 2:45PM **POSTER SESSION III**

1F Exhibition Hall Foyer Topics: Early Development, Morphogenesis & Patterning, Organ Formation & Function, Physiology & Metabolism, Regeneration, Stem Cells, and Toxicology, Environmental Biology and Sustainability

3:00PM - 4:00PM **WORKSHOP SESSION II**

EMERGING TECHNOLOGIES 1F Exhibition Hall D

ZEBRAFISH IN EDUCATION AND OUTREACH 1F Exhibition Hall A

CREATING A COMMON STANDARD: NEXT-**GENERATION ATLASING IN FAIR RESEARCH** 1F Exhibition Hall C

4:00PM - 4:30PM **COFFEE BREAK** 1F Exhibition Hall D

4:30PM - 5:00PM **CHI-BIN CHIEN AWARD LECTURE**

1F Exhibition Hall D Mechanisms of Growth in the Vertebrate Skull: Lessons from Zebrafish D'Juan Farmer, PhD

5:00PM - 6:00PM **COMMUNITY SESSIONS**

ASIA-PACIFIC

1F Exhibition Hall D

THE AMERICAS

1F Exhibition Hall A

EUROPE

1F Exhibition Hall C

7:00PM - 9:00PM **BANQUET**

Hotel Okura Kyoto Dinner and celebration *Prior sign up required

Wednesday, August 21

8:30AM - 10:00AM CONCURRENT SESSION V

EARLY DEVELOPMENT, MORPHOGENESIS AND PATTERNING II

1F Exhibition Hall D Moderators: Margot L.K. Williams, PhD & Merlin Lange,

LIFESPAN AND AGING

1F Exhibition Hall A Moderators: Yumi Kim, PhD & Miguel Godinho Ferreira, PhD

EVOLUTION AND COMPARATIVE BIOLOGY

1F Exhibition Hall C Moderators: Tetsuya Nakamura, PhD & Shigehiro Kuraku, PhD

10:00AM - 10:30AM **COFFEE BREAK**

1F Exhibition Hall Foyer

10:30AM - 12:00PM **PLENARY VI**

1F Exhibition Hall D Moderators: Corinne Houart, PhD & Peter Currie, PhD

12:00PM - 12:30PM **CLOSING REMARKS** 1F Exhibition Hall D





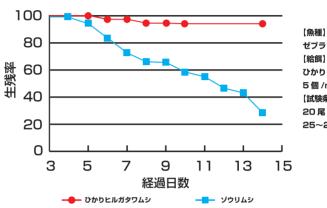
と小ガタワム9 5枚入り×1 5枚入り×5

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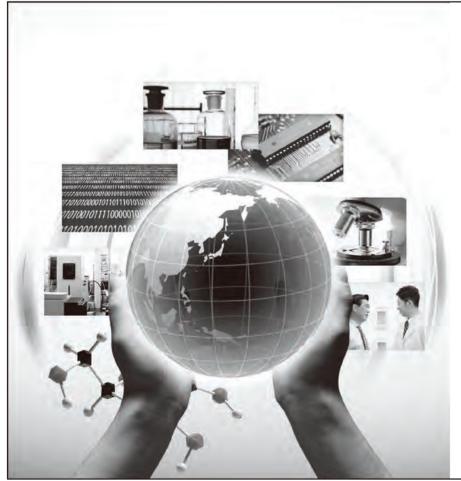




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August 19, 2024 | 4:45 -5:30pm

Steve Wilson, PhDUniversity College London

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Keynote Lecturers

Mechanism Research on Epigenetic Regulation of Reproductive Development from model animals to human beings



Jie Qiao, MD, PhDMedical Center for Human Reproduction,
Peking University Third Hospital,
Beijing, China

August 17, 2024 | 3:00 - 4:00pm

Searching for Principles of Tissue Regeneration and Aging in Mammalian Skin



Emi K. Nishimura, MD, PhD
The Institute of Medical Science,
The University of Tokyo,
Tokyo, Japan

August 19, 2024 | 4:45 -5:30pm





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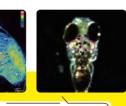
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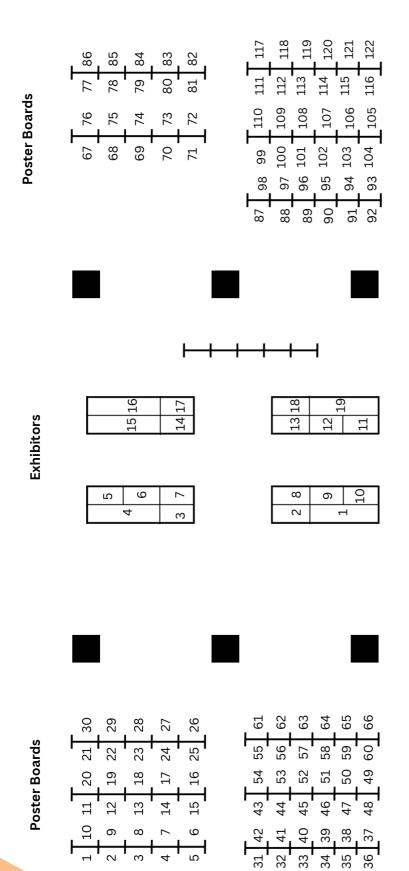
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Poster Hall



Poster Session I August 18 | 1:00 - 2:45pm

Topics: Cell Biology, Circuits & Behavior, Infection & Immunity, Neurobiology, Other and Reproduction

Poster Session II August 19 | 1:00 - 2:45pm

Topics: Cardiovascular, Disease Models, Emerging Technologies, Evolution & Comparative Biology, and High Throughput Whole Organism Research

Poster Session III August 20 | 1:00 - 2:45pm

Topics: Early Development,
Morphogenesis & Patterning,
Organ Formation & Function,
Physiology & Metabolism,
Regeneration, Stem Cells, and
Toxicology, Environmental
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Kyoto is the heart of Japan and a city with over a millennium of history. More than one million tourists visit Kyoto each year. There are literally thousands of Buddhist temples and Shinto shrines in Kyoto. In addition, the tea ceremony, flower arrangement, and kimonos can also be found in the cultural centers of Kyoto. It is easy to get around without speaking or understanding Japanese. Kyoto is friendly to foreign visitors and local people are renowned for their hospitality.







We will introduce useful websites for enjoying Kyoto!



Kyoto Travel Guide

This is the first official guide to Kyoto. A must-see for all the visitors to Kyoto!



"Arukumachi KYOTO Route Planner 'Bus and Train Veteran'"

This is a handy tool that helps people who are unfamiliar with the geography of Kyoto to get around smoothly using buses and trains.



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Cycling in Kyoto

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Sightseeing spots readily accessible from Kyoto



Osaka

The second largest city in Japan



Nara

The old capital of Japan (The World Heritage Site)



Himeji-jō

JapanWhite Heron Castle (The World Heritage Site)



Shiga · Biwako

Lake Biwa is famous as the largest lake in Japan

Guide for when you are feeling ill



For safe travels in Japan

This is a website to help you receive medical care in japan.



