# 19th CONFERENCE
on Methods
and Applications
in Fluorescence

# MAF 2025

**August 24-27, 2025**
Montréal
Canada

**maf2025.org**

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Whether added to your existing system or configured as a complete setup, InverTau delivers precise, software-controlled FLIM performance. For real-time lifetime dynamics, include the award-winning FLIMera™ video rate camera, for widefield FLIM imaging at up to 30 fps.

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# WELCOME MESSAGE

Dear Friends and Colleagues,

It is our great pleasure to welcome you to MAF 2025, held in Montréal, from August 24 to 27, 2025, at the Centre Mont-Royal.

MAF 2025 offers an exceptional platform for exchanging knowledge, showcasing recent advances, and exploring the future of fluorescence research. We are thrilled to have you join us for what promises to be a dynamic and engaging meeting.

The conference program spans a broad spectrum of topics—ranging from advanced imaging in cells and materials, to single-molecule techniques, innovative probes, FRET, and other emerging frontiers shaping our field. This gathering brings together an international, multidisciplinary community, fostering scientific dialogue, collaboration, and discovery.

Beyond the conference, Montréal invites you to experience its vibrant culture, historic charm, and world-renowned gastronomy. As Quebec's cultural and industrial capital, the city offers a rich backdrop for both professional and personal enrichment.

Our local, program, and advisory committees have been working diligently to create an outstanding conference experience filled with stimulating discussions, novel ideas, and meaningful connections.

We look forward to welcoming you to Montréal and to an inspiring MAF 2025!

Warm regards,

The MAF 2025 Organizing Committee

# ORGANIZING COMMITTEE

**Dr. Nathan Luedtke**
Conference Chair
McGill University (Canada)

**Dr. Paul Wiseman**
Conference Chair
McGill University (Canada)

**Dr. Gonzalo Cosa**
Conference Chair
McGill University (Canada)

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# KEYNOTE SPEAKERS

**W. E. (William E.) Moerner**
Harry S. Mosher Professor of Chemistry and Professor, by courtesy, of Applied Physics BioX, Biophysics, and ChEM-H Programs, Stanford University.
2014, Nobel Prize in Chemistry for super-resolved fluorescence microscopy.

Research Interests:

- Physical chemistry, biophysics, and the optical properties of single molecules
- Active development of 2D and 3D super-resolution optics and imaging for cell biology
- Imaging studies include protein superstructures in bacteria, structure of proteins in cells, studies of chromatin organization, and dynamics of regulatory proteins in the primary cilium.
- Measurements of the motions of single proteins, DNA, and RNA in 3D in real time
- Precise analysis of photodynamics of single trapped biomolecules in solution, with applications to photosynthesis, protein-protein interactions, and transport measurements

**Ibrahim Cissé**
Ibrahim Cissé is currently Director in Max Planck Gesellschaft, heading the Department of Biological Physics at the Max Planck Institute of Immunobiology & Epigenetics in Freiburg, Germany. Prior to this, he was Professor of Physics at the California Institute of Technology (Caltech), and before, an Associate Professor with Tenure in Physics (& Biology by courtesy) at the Massachusetts Institute of Technology (MIT). He received his Bachelor in Physics in 2004 from North Carolina Central University, University, and his Ph.D. in Physics from the University of Illinois at Urbana-Champaign in December 2009. He moved to Paris from 2010 to 2012, where he was a Post-doctoral Fellow at Ecole Normale Supérieure. He moved back to the US in 2013, as a Research Specialist at the HHMI's Janelia Research Campus before joining MIT in 2014 as a junior faculty. His research on single molecule and super-resolution imaging has been recognized through many honors including being named a Pew Biomedical Scholar, an NIH Director's New Innovator awardee, Science News "SN10 Scientists To Watch", a Vilcek Prize for Creative Promise in Biomedicine, and a MacArthur Fellow.

**Ralf Jungmann**
Ralf Jungmann is a professor for Experimental Physics at LMU Munich and Max Planck Fellow at the MPI of Biochemistry in Martinsried. Jungmann studied physics at Saarland University and received his PhD in 2010 from the TU Munich. He then became an Alexander von Humboldt postdoctoral fellow at the Wyss Institute at Harvard University before joining LMU and MPIB. Jungmann and his team are known for the developments and applications of DNA-based fluorescence microscopy, namely DNA-PAINT. DNA-PAINT is a super-resolution microscopy technique that uses short, transient DNA-DNA interactions to provide unrivalled spatial resolution and multiplexing. The method employs complementary DNA strand binding, allowing researchers to visualise cellular structures and molecules with precision previously thought unattainable. DNA-PAINT has unlocked new potentials in diverse scientific realms, from unravelling intricate biological processes at the molecular level to aiding advancements in material science and biomedicine. In two of their latest studies, Jungmann and his team achieved Ångström-resolution fluorescence microscopy and spatial proteomics at single protein resolution in neurons, unravelling the Mode of Action of monoclonal antibodies in cancer in the first study and uncovering a novel type of synapse in the latter.

**Ellen Sletten**
Ellen Sletten is a Professor in the Department of Chemistry and Biochemistry at UCLA. She received her PhD from UC Berkeley in 2011 working in Prof. Carolyn Bertozzi's laboratory developing bioorthogonal chemistries. She performed her postdoctoral work at MIT in Prof. Timothy Swager's laboratory working on soft fluorous materials for fluorescent sensors. Since starting at UCLA in 2015, her group has focused on the development of enhanced therapeutics and diagnostics by leveraging "fluoro," with "fluoro" referring to fluorine and/or fluorescence. Her work has been well-recognized by the community as noted by an NIH New Innovator Award, ICBS Young Chemical Biologist Awards, and the Helmholtz High Impact Award.

# INVITED SPEAKERS

**Russ Algar**
University of British Columbia, Canada

**Julie Biteen**
University of Michigan, USA

**Peng Chen**
Cornell University, USA

**Christian Eggeling**
Friedrich Schiller University Jena, Germany

**Jörg Enderlein**
Georg-August-Universität Göttingen, Germany

**Evan Miller**
University of California, Berkeley USA

**Klaus Hahn**
University of North Carolina-Chapel Hill USA

**Mike Heilemann**
Goethe-University Frankfurt, Germany

**Jelle Hendrix**
Hasselt University, Belgium

**Claudia Höbartner**
Julius-Maximilians-Universität Würzburg, Germany

**Tomas Kirchhausen**
Harvard Medical School, USA

**Christy Landes**
University of Illinois Urbana-Champaign, USA

**Bo W. Laursen**
University of Copenhagen, Denmark

**Luke Lavis**
HHMI Virginia, USA

**Sudipta Maiti**
Birla Institute of Technology and Science, India

**Markus Sauer**
Julius-Maximilians-Universität Würzburg Germany

**Hugo Sanabria**
Clemson University, USA

**Martin Schnermann,**
National Cancer Institute, USA

**Thomas Just Sørensen**
University of Copenhagen, Denmark

**Yitzhak Tor**
University of California, USA

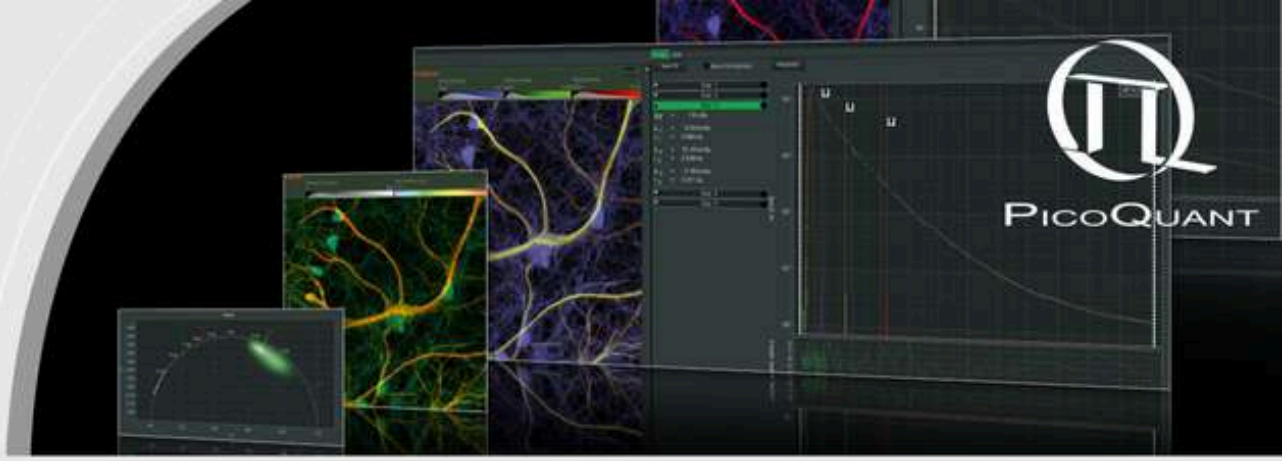
**L. Marcus Wilhelmsson**
Calmers University of Technology, Sweden

**Jin Zhang**
UCSD, USA

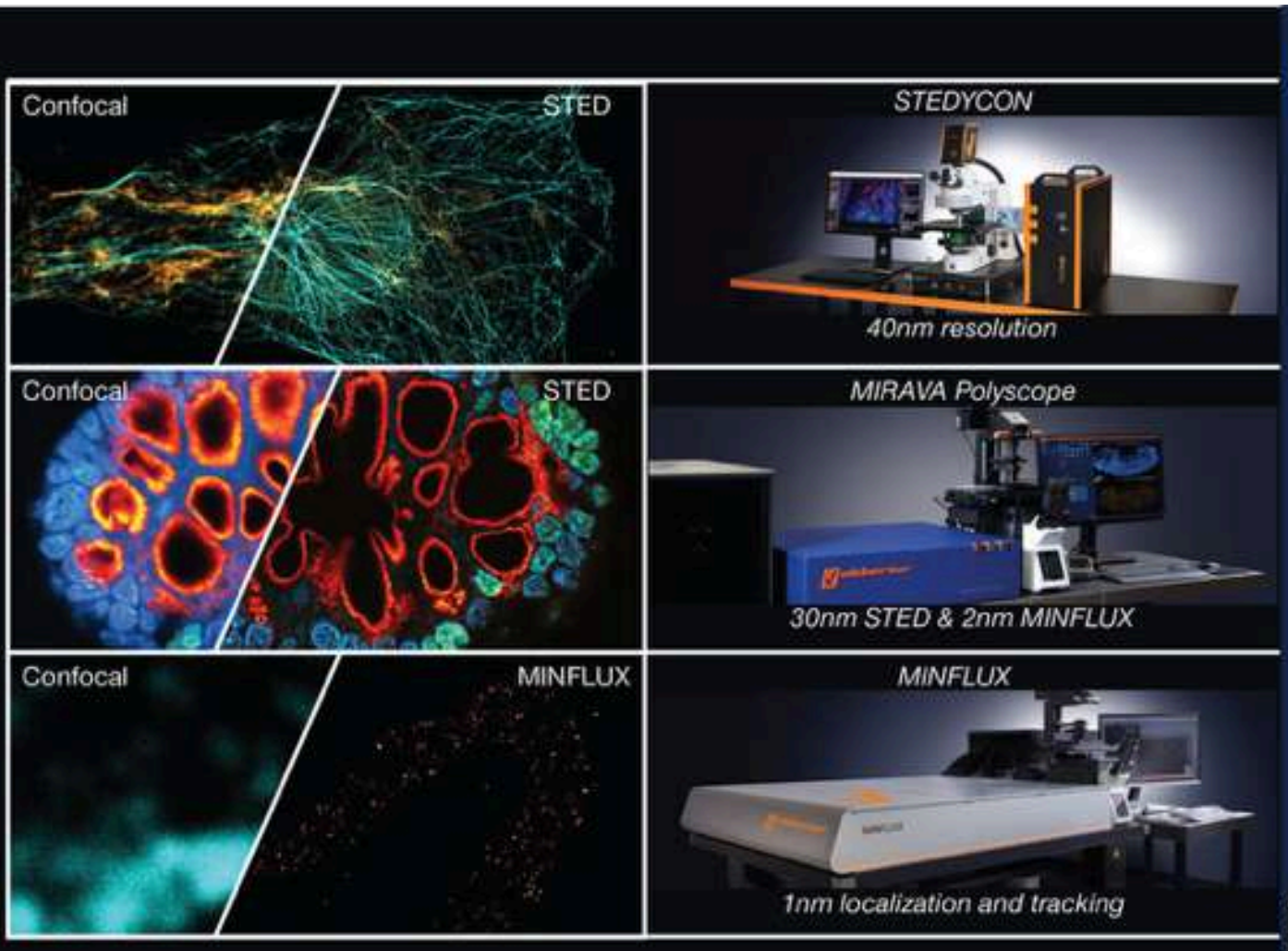
**Showcasing of Luminosa's advanced FCS/FLCS and FLIM capabilities.**

**The FCS/FLCS module will focus on standardized dyes and biomolecular condensates**

**while the FLIM module will feature live-cell imaging of pollen tubes to highlight lifetime dynamics within the cell..**




**Meet us on August 26th at 12pm in the Otto Mass Chemistry Building, room 303**



# GENERAL INFORMATION

### VENUE
Centre Mont-Royal
2200 Mansfield St, Montreal
Quebec H3A 3R8

### PARKING
The Centre Mont Royal has an indoor parking. Accessible via Metcalfe Street.

### REGISTRATION DESK
All participants should register at the registration desk to collect their badge. The registration desk is located on the 3rd floor, and it will be open at the following times:
Sunday, August 24 | 14:30-19:00
Monday, August 25 | 07:30-18:00
Tuesday, August 26 | 07:30-17:30
Wednesday, August 27 | 07:30-13:00

### EXHIBIT HALL
**3rd floor**
Monday, August 25 | 09:00-17:45
Tuesday, August 26 | 09:00-17:45
Wednesday, August 27 | 09:00-12:45

### LUNCHES AND COFFEE BREAKS
**3rd floor**
Lunches and coffee breaks are located in the exhibition hall.
Please note that breakfast will not be provided to participants.

### INTERNET ACCESS
Free internet facilities are available to all participants in the conference venue.
**Network:** CMR
**Username:** maf2025
**Password:** montreal
During the sessions, please turn off your mobile phone or set it to mute.

### NAME BADGE
Name badge is the participant identification to access the sessions and exhibition and should be worn for all the conference and social events.

### CERTIFICATE OF ATTENDANCE
An official Certificate of Attendance will be available on demand after the conference (by email only).

### DISCLAIMER
The MAF 2025 secretariat and organizers cannot assume liability for personal accidents, loss of or damage to private property of participants and accompanying persons, either during, or directly arising from the MAF 2025. Participants should make their own arrangements with respect to health and travel insurance.

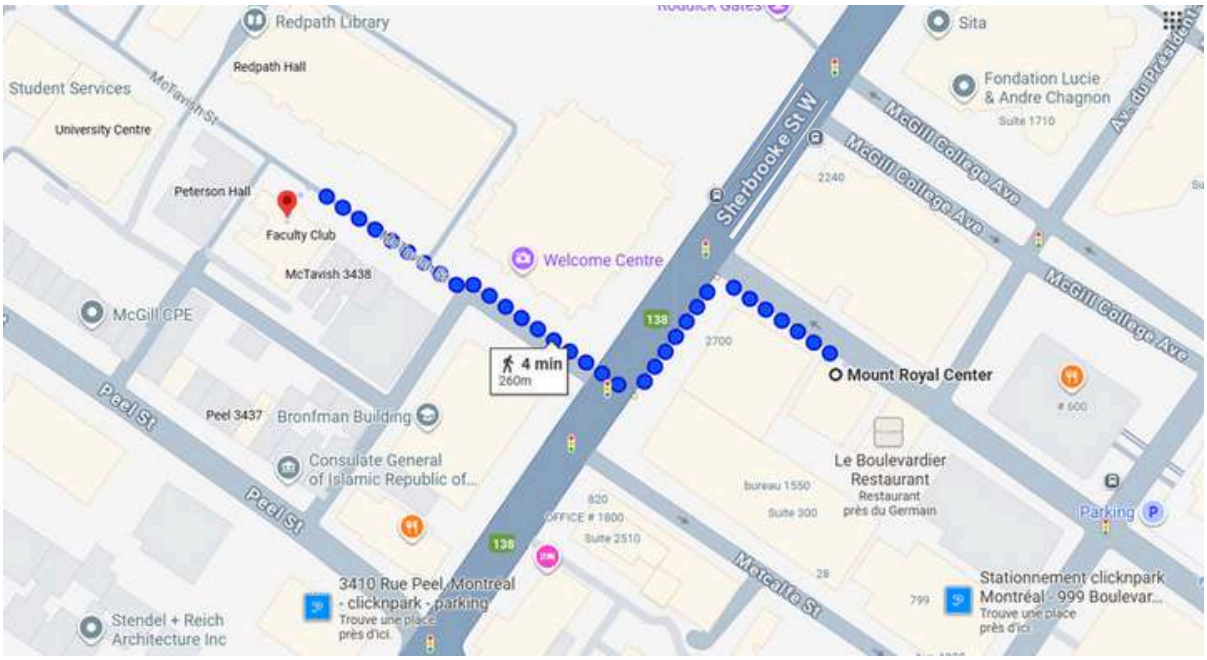
### SECURITY & SAFETY
Please do not leave bags and luggage unattended at any time, whether inside or outside session rooms.

# SOCIAL EVENTS

### WELCOME RECEPTION
**Sunday, August 24 | 18:00-21:00**
**Foyer 4**
The welcome reception is included in your registration. Drinks & appetizers will be served.

### POSTER SESSION
**Monday, August 25 | 17:45-19:45**
**Foyer 4**
The poster session reception is included in your registration. Drinks & appetizers will be served.

### COCKTAIL & BANQUET
**Tuesday, August 26 | 18:30-23:00**
**McGill Faculty Club - 3450 McTavish Street, Montreal, Quebec H3A 0E5**
Only with prior reservation. The event includes drinks, appetizers, dinner and light entertainment.




### MONTREAL WALKING TOUR
Discover Montréal's Hidden Side

This 2-hour guided walk will take you through downtown Montréal and the famous RÉSO (Underground Pedestrian Network), the largest underground complex in the world with over 33 kilometers of pathways.
The tour highlights both the "outside city" and the "inside city," showcasing Montréal's architecture, history, and culture from different perspectives. Whether you're a first-time visitor or a seasoned traveler, this guided tour will give you a whole new perspective on the city.

**Date: Wednesday, August 27, 2025**
**Time: 2.30 PM – Duration: 2 hours**
**Meeting Point: Centre Mont-Royal**
**Only with prior reservation.**

# THANK YOU TO OUR PARTNERS!

The Organizing Committee of the MAF 2025 Conference would like to express its gratitude to and acknowledge the following partners for their generous support:

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Nikon

ScopeSys

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OptoElectronic Components

## COOPERATING ORGANIZATION

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## Abberior Instruments/Quorum Technologies

Founded as a spin-off from Dr. Stefan Hell's laboratory, Abberior manufactures cutting-edge instruments and dyes for super-resolution imaging. Abberior is the only company to produce both instruments and dyes, a blend of expertise that yields impactful results for our customers.
In Canada, Abberior's products are represented by Quorum.
https://abberior.rocks/

Quorum Technologies is a Canadian owned and operated corporation with over 37 years of experience supporting the scientific research community. Our microscopy offerings provide the latest techniques for capturing new insights into the structure and function of cells and organisms. Our multidimensional instruments cover optical resolutions down to 3nm.
https://www.quorumtechnologies.com/

## Chroma Technology

Founded in 1991 as a 100% employee-owned company, Chroma Technology is a leading manufacturer and OEM supplier of highly precise optical filters using thin-film coating technology. Our reputation is built on our dedicated customer service, including free technical and applications support. We remain committed to serving the scientific and technical communities in their pursuit of the scientific endeavor. Chroma's product portfolio provides solutions for industries ranging from the life sciences and agriculture to manufacturing, inspection, security and aerospace. The broad array of applications served include fluorescence microscopy, flow cytometry, biomedical instrumentation and surgical devices, multi spectral imaging, and astronomy.
https://www.chroma.com/

## CRBS

The Centre de recherche en biologie structurale (CRBS) is a top-notch research centre in biophysics and structural biology for health. Its mission is to exploit the power of structural biology and biophysics to make breakthroughs in understanding disease, developing treatments, and advancing nucleic acid biomedical research. At the same time, the CRBS trains a new generation of structural biologists and biophysicists with outstanding expertise in cross-disciplinary approaches for biomedical research, allowing young scientists to develop and leverage skills in structural biology, structural modelling, and biophysics, for the broader biomedical research and health community.
https://www.crbsmcgill.ca/

## Delta Photonics

Delta Photonics is a leading Canadian distributor of advanced photonics solutions, serving researchers and innovators across Canada. At MAF 2025, we showcase fluorescence-focused technologies including Edinburgh Instruments spectrometers for time-resolved studies, Thorlabs imaging components for custom microscopy systems, and Teledyne Imaging cameras offering scientific-grade visible and SWIR performance for demanding fluorescence applications. With a team of experienced physicists and engineers, we provide expert guidance and tailored solutions for academia, government, and industry. Delta Photonics is your trusted partner in precision optics, lasers, and instrumentation.
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## Evident

For over 100 years as Olympus, we set the industry standard for optical precision in microscopy, helping the world see what was once out of view.
Today, as Evident, we continue to help scientists, physicians, and engineers illuminate the unseen with advanced imaging solutions that combine renowned optics with cutting-edge digital innovation.
Whether advancing new therapies, ensuring product integrity, or exploring the unknown, Evident is defining a new era of discovery with easy-to-use tools that help unlock hidden answers and empower exciting new breakthroughs.
Fore more information, visit https://evidentscientific.com/en/

## Exciting Instruments

Exciting Instruments develops advanced tools that bring the precision of single-molecule fluorescence techniques into everyday life science laboratories. These systems enable researchers to detect and analyse individual molecules, observe their structures, and track how they interact, unlocking new insights in biology, drug discovery, diagnostics, and beyond.
The company's mission is to make these tools accessible, reliable, and usable for scientists at all levels of expertise.
https://excitinginstruments.com/

## HAMAMATSU

Hamamatsu Corporation, the North American subsidiary of Hamamatsu Photonics K.K. (Japan), is a global leader in photonics technology, delivering advanced imaging systems and photonics devices. For decades, our detectors, cameras, and light sources have been trusted in life science imaging and microscopy, providing researchers with highly sensitive and reliable solutions for the most demanding applications.
Our ORCA line of scientific cameras reflects our commitment to advancing exploration and discovery at the microscopic level by offering quantitative, high-performance imaging tools that empower innovation in scientific and translational research. Learn more at www.hamamatsucameras.com

## HORIBA

The HORIBA Group of worldwide companies provides an extensive array of instruments and systems for applications ranging from automotive R&D, process and environmental monitoring, in-vitro medical diagnostics, semiconductor manufacturing and metrology, to a broad range of scientific R&D and QC measurements. Proven quality and trustworthy performance have established widespread confidence in the HORIBA Brand.

https://www.horiba.com/int/

## Ionovation

Ionovation revolutionizes lipid bilayer electrophysiology and single-molecule optics. The Explorer, our cutting-edge microscope stage add-on, crafts artificial membranes for precise single- or multichannel recordings with customizable potentials, full perfusion, and adjustable temperatures. Our FCS-easy Fluorescence Correlation Spectroscopy systems unlock high-throughput insights into biomolecular interactions, revealing molecular dynamics with unparalleled clarity. Ionovation delivers innovative tools, expert services, and lifelong, cost-free support to fuel your research breakthroughs. Ignite your discoveries at www.ionovation.com

## ISS

ISS develops innovative fluorescence instrumentation for a wide range of research applications. Our product line includes steady-state spectrofluorometers, decay time spectrometers, time-resolved laser scanning confocal microscopes, fluorescence correlation spectroscopy systems, and single molecule particle-tracking instruments. All instruments feature interchangeable accessories and modular components, enabling users to upgrade capabilities and create custom configurations. The open architecture design provides flexibility for diverse applications. Our experienced sales and support team helps researchers identify optimal instrument solutions tailored to their specific application requirements and scientific objectives.
https://iss.com/

## MAD CITY LABS

Mad City Labs designs and manufactures nanopositioning systems, micropositioning stages and decks, atomic force microscopes (AFM), and RM21® Single Molecule Microscopes. Our foundational product, closed loop nanopositioners, are piezoactuated and feature PicoQ® sensors. This yields high resolution performance with inherently low noise and high stability for demanding single molecule and high resolution microscopy. Featured products: RM21® MicroMirror TIRF microscope – 3rd generation design with motorized MicroMirrors and streamlined control. MadAFM® tabletop multimodal AFM. Mad-Deck® microscope platform for DIY microscopy applications. Z-axis nanopositioners suitable for confocal microscopy.
Stop by and visit us during MAF to discuss your microscopy applications.
https://www.madcitylabs.com/

## MBF Bioscience

MBF Bioscience is a world leader in developing cutting-edge technology and providing scientific researchers with advanced software and hardware for microscopy. From our origins in rigorous morphological quantification of fixed tissue, we have expanded to include multi-photon imaging in vivo and in vitro, enabling high-resolution, fluorescence-based analysis across a wide range of biological applications. Whether you are studying neural circuits, cellular dynamics, or functional imaging, our systems are custom configured to meet your specific research goals. Each solution is backed by a dedicated team of scientists and technical experts. Visit www.mbfbioscience.com to learn how we can support your next breakthrough.
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## MPB Communications Inc.

MPB Communications is a leading provider of advanced fiber lasers and amplifiers recognized for innovation, performance, and reliability. As pioneers of Continuous-Wave (CW) visible fiber lasers, we deliver high-performance fiber laser and amplifier solutions for research, biomedical, industrial, scientific, quantum applications, and much more.
With experience in developing novel fiber laser solutions for Nobel Laureates Stefan W. Hell and Eric Betzig, for Super Resolution Microscopy. Our portfolio includes Continuous-Wave Single-Frequency, Pulsed, and Ultrafast fiber lasers—known for their outstanding beam quality, reliability, low-noise, stability, and precision.

mpbc.ca

## Nikon

Discover the power of precision with Nikon Instruments at the Methods and Applications in Fluorescence conference. Nikon is a global leader in advanced optical technologies, delivering cutting-edge solutions for fluorescence imaging. From super-resolution to live-cell imaging, our systems provide unparalleled clarity, speed, and sensitivity to drive your research forward. Visit our booth to experience how Nikon's innovative microscopes and software solutions empower scientists in cell biology, neuroscience, and beyond. Whether you're exploring the finest molecular interactions or imaging complex tissues, Nikon offers the tools to illuminate your discoveries. Let us help you see science in a new light.
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Oxxius develops and manufactures DPSS and laser diode modules in the ultraviolet, visible and near-infrared wavelength ranges. Oxxius lasers provide exceptional optical performances in an ultra-compact design which can be easily integrated into various instruments for life science, measurement and manufacturing markets. Oxxius also develops compact and flexible multicolor laser sources Wavelength combiners, with up to 6 lasers lines.
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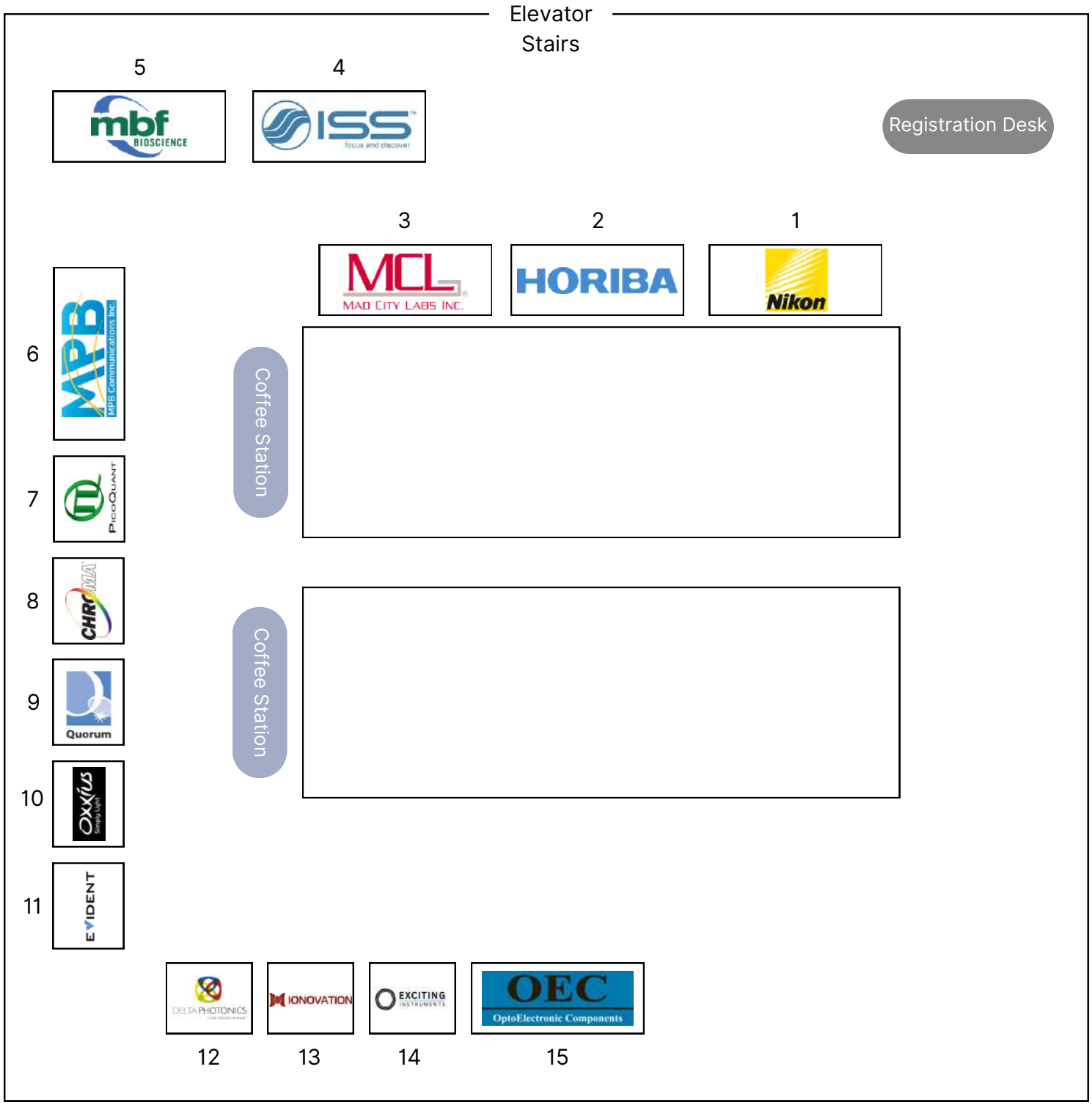
https://www.picoquant.com/

## ScopeSys

ScopeSys is a commercial-stage developer of disruptive technologies for single-molecule imaging with applications in genomic-medicine drug development. ScopeSys’ Convex Lens-induced Confinement (CLiC) technology enables high-throughput measurements with single-molecule resolution. CLiC provides novel analysis capabilities to the field of genomic-medicine for the development of RNA, DNA, and nanoparticle delivered drugs. Unlike existing technologies that rely on ensemble measurements, CLiC allows developers to resolve single-molecule interactions, improving their ability to engineer their active pharmaceutical ingredients and formulations. Applications include optimizing sequences of therapeutics to improve their efficacy, and optimization of mRNA loading with single-particle resolution. Spun out of the Leslie Lab at UBC to meet real-world needs, ScopeSys is excited to collaborate with industry and leading developers.
https://www.scopesys.ca/

# EXHIBIT FLOORPLAN



# ORAL PRESENTATIONS

## Sunday, August 24, 2025

**Keynote Lecture**
Room: Mont-Royal 1

| | |
|---|---|
| **17:00-18:00** | **Single-Molecule Detection, Spectroscopy, and Imaging Over the Years: From 1.4K, to SARS-CoV-2 in Cells** \| Prof. W. E. Moerner - Standford University, USA |

## Monday, August 25, 2025

**Keynote Lecture**
Room: Mont-Royal 1

| | |
|---|---|
| **08:30-09:30** | **Super-Resolution Imaging of Transcription in Living Cells** \| Dr. Ibrahim Cissé, MPI Immunology and Epigenetics, Germany |

**Parallel Session 1 - Advanced Imaging in Cells**
Room: Mont-Royal 1

| | |
|---|---|
| **09:30-10:00** | **Imaging Membrane Receptor Biology with Single-Molecule Resolution** \| Dr. Mike Heilemann - Goethe, University Frankfurt, Germany |
| **10:00-10:30** | **Seeing is Believing** \| Dr. Tomas Kirchhausen - Harvard Medical School, USA |

**Parallel Session 2 - Luminescent Materials**
Room: Cartier 1

| | |
|---|---|
| **09:30-09:50** | **FRET and Upconversion Nanoparticles for Deep-Tissue Theranostics** \| Dr. Niko Hildebrandt - McMaster University, Canada |
| **09:50-10:10** | **Engineering Photostable Probes for Multicolor and Long-term, Single-Molecule Imaging in Live Cells** \| Dr. Sam Peng - Massachusetts Institute of Technology, USA |
| **10:10-10:30** | **Control of 4f Complexes Luminescence with Organic Photochromic Units** \| Dr. Lucie Norel - Université de Rennes, France |

**Parallel Session 3 - Cellular Imaging and Molecular Interactions**
Room: Mont-Royal 1

| | |
|---|---|
| **11:00-11:30** | **Determining the Nature of Interactions and Biomolecular Condensates in Microbes** \| Dr. Julie Biteen - University of Michigan, USA |
| **11:30-11:50** | **4D Imaging and Machine Learning Analysis for Observing Directly and Deciphering cell entry pathways of biological** \| Dr. Nikos Hatzakis - University of Copenhagen, Denmark |
| **11:50-12:10** | **Uncovering the Ultrastructure and Multivalency Landscape of Biomolecular Condensates via Super Resolution Microscopy and Spectroscopy** \| Dr. Saumya Saurabh - New York University, USA |
| **12:10-12:30** | **Counting the Motor Proteins and Adaptors Associated with Organelles Using stepwise photobleaching and DNA-PAINT** \| Dr. Adam Hendricks - McGill University, Canada |
| **12:30-12:50** | **Real-Time Cell Imaging Uncovers Novel Pathways of Neuronal Cell Differentiation** \| Dr. Suzanne Scarlata - Worcester Polytechnic Institute, USA |

**Parallel Session 4 - Imaging and Probing Nucleic Acid Dynamics**
Room: Cartier 1

| | |
|---|---|
| **11:00-11:30** | **Isomorphic Fluorescent Nucleosides** \| Dr. Yitzhak Tor - University of California San Diego, USA |
| **11:30-11:50** | **Quantitative Analysis of Pyrrolocytosine Fluorescence in Model RNAs and in a Riboswitch** \| Dr. Julia Widom - University of Oregon, USA |
| **11:50-12:20** | **Fluorescent Nucleic Acids: Aptamers, Ribozymes and Functionalized DNA** \| Dr. Claudia Hoebartner - Julius-Maximilians-Universität Würzburg, Germany |
| **12:20-12:50** | **Live-Cell Confocal Imaging and FLIM of RNA** \| Dr. Marcus Wilhelmsson - Chalmers University of Technology, Sweden |

**Parallel session 5 - Single Molecule & Super-Resolution Microscopy**
Room: Mont-Royal 1

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| **14:00-14:30** | **Studying Molecular Interactions with Advanced Super-Resolution and Single-Molecule Microscopy: Issues and Prospects** \| Dr. Christian Eggeling - Friedrich Schiller University Jena, Germany |
| **14:30-14:50** | **Genetically Encoded Protein Nanorulers for Sub-10'nm Fluorescence Imaging** \| Dr. Gerti Beliu |
| **14:50-15:10** | **Single-Molecule Fluorescence Microscopy Reveals How Environmental Cues Cause Morphological Changes in Chemosensory Cilia** \| Dr. Guus Haasnoot - Vrije Universiteit Amsterdam, Netherlands |
| **15:10-15:30** | **5 million Reasons to Rethink Your Fluorophore: High-Performance Macrocyclic Fluorophores for Single-Molecule Imaging** \| Dr. Terri Lovell |

**Parallel session 6 - Molecular Biology + Probes**
Room: Cartier 1

**14:00-14:30** **Fiat Lux! Using Chemistry to Measure and Monitor Cellular Physiology with Light** | Dr. Evan Miller - University of California, Berkeley, USA

**14:30-14:50** **A Window into Lipid Peroxyl Radicals, Peroxidation and Electrophilic Stress in Cells** | Dr. Gonzalo Cosa - McGill University, Canada

**14:50-15:10** **Labels and Linkers for Microscopy: from Improved Imaging to Applications** | Dr. Johan Hofkens - KULeuven, Belgium

**15:10-15:30** **De Novo Designed Fluorophore Binders for Fluorescence Microscopy** | Dr. Klaus Yserentant - University of California San Francisco, USA

**Parallel session 7 - Fluorescence Fluctuation Methods**
Room: Mont-Royal 1

**16:00-16:20** **STED-FCS Diffusion Law plots Unlock Quantitative Nanoscale Characterization of Membrane Organization** | Dr. Radek Sachl

**16:20-16:40** **A Live Bacterial Screening Assay for Membrane-active Antimicrobial Compounds using Imaging Fluorescence Correlation Spectroscopy** | Dr. Thorsten Wohland - National University of Singapore

**16:40-17:00** **Fluorescence Fluctuations Spectroscopy Methods Reveal Cytosolic Interactions of HIV-1 GagPol and Gag** | Dr. Irene Gialdini - Ludwig Maximilians-Universität Munich, Germany

**17:00-17:20** **Image Correlation Spectroscopy Approaches for the Quantification of Molecular and Organellar Dynamics *In Situ*** | Dr. Elvis Pandzic - Mark Wainwright Analytical Centre, Australia

**17:20-17:40** **Volumetric Spatio-Temporal Image Correlation Spectroscopy Reveals Pollen Tube Transport Dynamics** | Dr. Ahmad Mahmood - McGill University, Canada

**Parallel session 8 - Sensors**
Room: Cartier 1

**16:00-16:30** **Developing Robust Fluorescent Sensors with Ratiometric Readouts** | Dr. Thomas Sorensen - University of Copenhagen, Denmark

**16:30-16:50** **"Clickable" Zinc-Sensing Fluorescent Probes for Bioimaging** | Dr. Ozlem Dilek - George Mason University, USA

**16:50-17:20** **Designer Materials and Smartphone Devices for Bioanalysis** | Dr. Russ Algar - University of British Columbia, Canada

**17:20-17:40** **Quantum Dot to Fluorescent Protein FRET for in vitro Glucose Biosensing** | Dr. Lucie Haye - McMaster University, Canada

## Tuesday, August 26, 2025

**Keynote Lecture**
Room: Mont-Royal 1

**08:30-09:30** **Multicolor in vivo Imaging with Shortwave Infrared Light** | Dr. Ellen Sletten - UCLA, USA

**Parallel Session 9 - Applications in Living Cells**
Room: Mont-Royal 1

**09:30-10:00** **Illuminating the Biochemical Activity Architecture of the Cell** | Dr. Jin Zhang - University of California San Diego, USA

**10:00-10:30** **New Approaches to Examine the Conformational Changes of Single GTPase and Kinase Molecules in Live Cells** | Dr. Klaus Hahn - University of North Carolina-Chapel Hill, USA

**Parallel Session 10 - New Techniques**
Room: Cartier 1

**09:30-09:50** **Photochromic Dyes for Dye-sensitized Solar Cells** | Dr. Chun-Guey Wu - National Central University, Taiwan

**09:50-10:10** **Recent Developments of ABEL-FRET: Resolution Limits, Fast Dynamics and Pulsed Excitation** | Dr.Quan Wang - National Institutes of Health, USA

**10:10-10:30** **Fluorescence as an Exciton Logic Pathway** | Dr. Trevor Smith - University of Melbourne, Australia

**Parallel Session 11 - Single-Molecule FRET**
Room: Mont-Royal 1

**11:00-11:30** **The Good, the Bad and the Blinking: H2MM-Based Cleaning and Kinetic Modeling of Multi-State Protein Systems** | Dr. Jelle Hendrix - Hasselt University, Belgium

**11:30-12:00** **Enthalpic-Entropic Tug-of-War Drives Supertertiary Conformational Dynamics in PSD-95 Revealed by single-molecule FRET** | Dr. Hugo Sanabria - Clemson University, USA

**12:00-12:20** **Elucidating Protein Conformation and Dynamics with Two- and Three-Color Single-Molecule FRET** | Dr. Ecenaz Bilgen - Ludwig-Maximilians-Universitaet Muenchen, Germany

**Parallel Session 12 - Synthesis and Evaluation of New Probes**
Room: Cartier 1

**11:00-11:30** **Harnessing Cyanine Reactivity to Explore Antibody Conjugate Targeting** | Dr. Martin Schnermann - NIH/NCI, USA

**11:30-12:00** **Building Brighter Dyes for Advanced Microscopy** | Dr. Luke Lavis - HHMI Virginia, USA

**12:00-12:20** **Photostability of Near Infrared Dyes and its Correlation to their Photothermal Effect** | Dr. Clara Schäfer - University of Copenhagen, Denmark

**Parallel session 13 - Single-Molecule Localization & Tracking**
Room: Mont-Royal 1

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| **14:00-14:30** | **Fluorescence-Lifetime Image-Scanning Single Molecule Localization Microscopy** \| Dr. Jörg Enderlein - Georg-August-Universität Göttingen, Germany |
| **14:30-15:00** | **Super-Localized 6D Tracking of Dipole Emitters in Crowded Environments** \| Dr. Christy Landes - University of Illinois Urbana-Champaign, USA |
| **15:00-15:20** | **DeepTRACE: A New Flexible Approach for Learning from Sequences of Biological Events in Single Molecule Fluorescence Tracking** \| Dr. Oliver Pambos - University of Oxford, United Kingdom |

**Parallel session 14 - New Molecules and Methods**
Room: Cartier 1

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| **14:00-14:30** | **Super-Resolution Fluorescence Imaging of Nonfluorescent Surface Reactions** \| Dr. Peng Chen - Cornell University, USA |
| **14:30-15:00** | **Supramolecular Design of Optical Materials" to "Dynamic Proton Coupled Electron Transfer Quenching as Sensing Modality in Fluorescent Probes \|** Dr. Bo W. Laursen - University of Copenhagen, Denmark |
| **15:00-15:20** | **Development of Fluorescence Microscopy-Compatible Methods for Detecting Microparticulate Pollutants in Biological Matrices** \| Dr. Maarten Roeffaers - KU Leuven, Belgium |

**Parallel session 15 - Lipids and Membranes**
Room: Mont-Royal 1

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| **16:00-16:30** | **Functional Perturbations of the Membrane Using Small Amphiphiles** \| Dr. Maiti Sudipta - Birla Institute of Technology and Science, India |
| **16:30-16:50** | **Novel Intrinsically Fluorescent Analogs of Cholesterol, Ergosterol, and Steroid Hormones for Two Photon Imaging of Sterol Transport in Living Cells** \| Dr. Daniel Wüstner - University of Southern Denmark |
| **16:50-17:10** | **Exchangable Fluorescent Probes for Long-Term Imaging of Plasmic Membrane** \| Dr. Rémi Pelletier - Laboratoire de Bioimagerie et Pathologie, France |
| **17:10-17:30** | **Design, Synthesis, and Characterization of Organelle-Targeted Lipophilic Fluorogenic Antioxidants** \| Dr. Laiyi Xu - McGill University, Canada |
| **17:30-17:50** | **FLIM-FRET Measurement of Biomembrane Elasticity Enabled by DNA Nanomachines** \| Dr. Miguel Paez Perez - KU Leuven, Belgium |

**Parallel session 16 - FRET, FLIM, and MEF Applications**
Room: Cartier 1

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| **16:00-16:20** | **Histone FRET of Chromatin Structure and Dynamics** \| Dr. Elizabeth Hinde - University of Melbourne, Australia |
| **16:20-16:40** | **Time-Gated Detection of NIR Luminescent Nanoparticles in Organs Using Single Photon Detectors** \| Dr. Abhilash Prabhakar Kulkarni |
| **16:40-17:00** | **Precise Nanoparticle-Fluorophore Distance Control for Metal-Enhanced FRET** \| Dr. Andrea L. Larraga Urdaz - McMaster University, Canada |
| **17:00-17:20** | **Investigating Life at Sub-Zero Temperature with Optical Super-Resolution Microscopy** \| Dr. Clemens Kaminski - University of Cambridge, England |
| **17:20-17:40** | **Applications of Fluorescence Lifetime Imaging on Metal-Organic Frameworks** \| Dr. Jonas Tittel - LMU, Germany |

## Wednesday, August 27, 2025

**Keynote Lecture**
Room: Mont-Royal 1

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| **08:30-09:30** | **From DNA Nanotechnology to Biomedical Insight: Towards Single-Molecule Spatial Omics** \| Dr. Jungmann Ralf - Max Planck Institute of Biochemistry, Germany |

**Parallel Session 17 - Proteins**
Room: Mont-Royal 1

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| **09:30-09:50** | **Molecular Mechanisms of Fluorescent Protein Sensors Response to Ligand Binding: From Conformational Displacements to Electrostatic Redistribution to Spike in Fluorescence** \| Dr. Mikhail Drobizhev - Montana State University, USA |
| **09:50-10:10** | **Directly Excited Room Temperature Phosphorescence as a Novel Tool to Study Large Proteins Dynamics** \| Dr. Zygmunt Gryczynski - Texas Christian University, USA |
| **10:10-10:30** | **An Orange Calcium Indicator for High-Sensitivity Two-Photon Imaging of Neuronal Activity** \| Dr. Abhi Aggarwal - University of Calgary, Canada |
| **10:30-10:50** | **Spectroscopic Signatures of Physicochemical Organization in a Biomolecular Condensate** \| Dr. Julian von Hofe - New York University, USA |

**Parallel Session 18 - Nucleic Acids**
Room: Cartier 1

**09:30-09:50** **Single-Molecule Detection of the Fluorescent Nucleobase Analogue ABN in Duplex DNA** | Dr. Anita Jones - The University of Edinburgh, Scotland

**09:50-10:10** **New Synthetic Methodology Enables Rapid Screening and Discovery of Hydrazone-Based Fluorescent Nucleobase Analogues** | Dr. Matthias Thijs - McGill University, Canada

**10:10-10:30** **Emissive Nucleotides for Real-Time Monitoring of Nucleobase Deamination in tRNA**| Dr. Julia Dietzsch - Julius-Maximilians-University, Germany

**10:30-10:50** **Shining Bright at 960 nm: A 28-Silver-Atom Nanorod Stabilized by DNA** | Dr. Giacomo Romolini - University of Copenhagen, Denmark

**Award Lecture**
Room: Mont-Royal 1

**11:30-12:30** **Challenges and Limitations of Molecular Resolution Fluorescence Imaging** | Dr. Markus Sauer - Julius Maximilian University of Würzburg, Germany

# POSTER PRESENTATIONS

Monday, August 25, 2025

Poster Session
Room: Foyer 4
17:45-19:45

**Poster 1** - Analysis of antimetastatic effects of Nilotinib and its structural modification | Tereza Volfova

**Poster 2** - Bright Bursts of Photons for Enhanced Super Resolution: Photoswitching Agent for Bridged Cyanine | Shi Yin

**Poster 3** - Capillary Electrophoresis Detector Based on Hadamard-Transform Fluorescence Excitation-Emission-Matrix Spectroscopy | Monique Anne Bueno

**Poster 4** - Characterization of Janus Nanoparticles via TR-FRET | Ziyue Xie

**Poster 5** - Dye-sensitized Molecular Upconversion Nanoparticles | Liping Song

**Poster 6** - Effects of far-red and near-infrared fluorophores photoswitching on MINFLUX imaging | Hanie Esmaeeli

**Poster 7** - Fiber-optics Based Detection | Xuan Ye

**Poster 8** - FLIMsight Pro: All-in-One Benchtop 2p Laser Scanning Microscope Integrating FastFLIM and Phasor Plots | Beniamino Barbieri

**Poster 9** - Linking Growth Hormone Secretion With Synaptic Changes Using dSTORM and STED Microscopy in Mice and Voles | Klaudia Bednarz, Isabella Gomez

**Poster 10** - Multiplexed bioluminescence phasor microscopy: method and applications | Michelle Digman

**Poster 11** - Resolving the Complete Photophysical Dynamics of TADF Compounds by Temperature-Dependent Multi Modal Fluorescence Spectroscopy | Mina Chalani

**Poster 12** - Photostabilization of cyanine dyes with chalcogen compounds for high-energy imaging experiments | Jorge Ramos-Sanchez

**Poster 14** - Spoilage of vegetable products: Using fluorescence fingerprints to scout for effective markers of shelf life, safety and quality | Maleeka Singh

**Poster 15** - Triplet-Singlet FRET for the Determination of Phosphorescence Quantum Yield | Zygmunt Gryczynski

**Poster 16** - Zorion DynamICS: An interactive platform for Correlation Spectroscopy | Rodrigo A. Migueles-Ramírez

**Poster 17** - AMPAR Subunit Composition Depends on the Distance from the Synapse as Shown by qPAINT | Gloria Lau

**Poster 18 -** Development of a Single-Molecule FRET Assay for Monitoring Viral RNA Replication Kinetics | Ryan Reffner

**Poster 19 -** Fluorescence-based assays to characterize viral polymerases and their inhibition: From single molecule to bulk | Heidi Dewling

**Poster 20** - Labelling G-quadruplexes with thienoguanosine (thG), an isomorphic fluorescent guanosine analogue | Pankhi Singh

**Poster 21** - Modulated dynamics of fluorescently labeled dsDNA under electrokinetically-driven confinement | Matheus Pessôa

**Poster 23** - Probing the effects of TF clustering on transcriptional activity | Alex Verbeem

**Poster 24** - Quantifying GPCR-G protein binding affinity via steady-state fluorescence fluctuations with two-color image cumulant analysis | Teophile Lemay

**Poster 25** - Quantifying the Rheology of Cardiomyocytes using Optical Elastography | Cameron Hastie

**Poster 26** - A fluorescent sensor array for monitoring and quantification of platinum chemotherapeutic agents | Karandeep Grover

**Poster 27** - A Generalized Method to Optimize Probe Displacement for Fluorescence- Based Aptasensors | Grace Liu

**Poster 28** - Aggregation Induced Emission Active Seminaphthofluoresceins: Fundamental Insights into the Xanthene ACQ to AIE Transformation | Laura McKay

**Poster 29** - Amphiphilic cNDIs, bright tools for chemical biology | Andrea Fin

**Poster 30** - Development of chemical tools and live cell imaging strategies for the study of lipid peroxidation in subcellular compartments | Gabriel Robert

**Poster 31** - Development of novel tetrazine fluorophores for live-cell imaging of cellular DNA | Kaifeng Zhao

**Poster 32** - Dynamic proton coupled electron transfer quenching of phenol-DAOTA | Stine G. Stenspil

**Poster 33** - Fast-Blinking Fluorophores Enabling High-Speed Single-Molecule Super-Resolution Imaging | Bochao Li

**Poster 34** - Formulated Fluorescent RNA Studied with Spectroscopy and Scattering Techniques | Alma Karlsson

**Poster 35** - Ion-Sensing in Water Using Potential-Sensitive Dyes in Thin Film Optodes | Ramis Arbi

**Poster 36** - Labelling of C. elegans with VdU-PINK intercalating probe for Hg(II) Association to DNA | Mia Bhatia

**Poster 37** - Mitochondria-targeted fluorogenic probe revealing altered LDE reactivity and trafficking under ferroptosis | Xu, Laiyi

**Poster 38** - Modeling of Plasmon-Enhanced FRET on Gold Nanoparticles | Rongfei Zhang

**Poster 39 -** Modulating the Kinetics of a Fluorescence Anisotropy Immunoassay to Measure the Dynamics of Glucagon Secretion On-chip | Sharini Sam Chee

**Poster 41 -** Multiplexed TR-FRET Assay for Early Renal Dysfunction | Albert Ashong

**Poster 42 -** Optimizing fluorescence enhancement through spectral tuning and characterization of metal nanoparticles | Zatko, Daniel

**Poster 43 -** Point-of-Care FRET Biosensor for Gram-Negative Bacterial Infections | Hardiv Patel

**Poster 44 -** Revealing the Role of p130cas in Mechanosensing | Veronika Kolomaznikova

**Poster 45** - Reversibly Clicked mRNA: a Modular Approach to modify Functionalities | Qiyang Zhang

**Poster 46** - RNA Aptamer-based Biosensing in Living Cells and Animals | Kristina Gremi

**Poster 47** - Rolling Circle Amplification Time-Resolved FRET for Quantification of MicroRNAs in Endometriosis In-Vitro Diagnostics | Arthur Charasson

**Poster 48** - Site-Selective Fluorescent Labeling of mRNA via Poly(A) Tail Functionalization | Yasamin Nassimi

**Poster 49** - Synthesis of Ultra Stable Triangulenium Dyes | Marko Heine Nowack

**Poster 50** - Time-kill evaluation of Dormant Photosensitizers (DoPS) | Juan Francisco Sanchez Tejeda

**Poster 51** - Time-Resolved Förster Resonance Energy Transfer (TR-FRET) for sensitive molecular diagnostics and biosensing | Arthur Charasson

**Poster 52** - Time-Resolved FRET for Multiplexed Detection of Antibodies | Julian Chan

**Poster 53** - Tunable Metal-Enhanced FRET via Polymer-Coated Gold Nanoparticles | Sasha Morano

**Poster 54** - Using fluorescent assays to improve aptamer screening for alenomer libraries | Brandon Albert

**Poster 55** - Micro- to MacroFLIM: Imaging cells to tissues | Ross Keyashian

**Poster 57** - Boosting the Stability and Optoelectronic Performance of CsPbI3 Nanocrystals for the Design of Advanced Red-Emitting LEDs | Elke Debroye

**Poster 58** - DNA-to-Quantum Dot Self-Assembly via Histamine-Functionalized Phosphate Backbones | Keegan Howden

**Poster 59** - Dye-Dendrimer FRET to Single-Walled Carbon Nanotubes | Emma Hämäläinen

**Poster 60** - FRET and Electron Transfer from Perovskite Nanocrystal to Dyes and Metal Ions | Muhammad Munir

**Poster 61** - Modulation of the Dual Upconverting/Downconverting Photoluminescent Response of NaYF4:Yb,Er@NaYF4 Nanoparticles Modified with Gold Nanoclusters | Osvaldo Carreño-Vega

**Poster 62** - Photochemical Synthesis and Photophysical Characterization of Phosphine-Stabilized Gold Nanoclusters | Hoskin, Christine

**Poster 63** - Photophysical Properties of Carbene-Protected Chemically Precise Nanoclusters | Emily Steele

**Poster 64** - Stability and Excited-State Reactivity of NHC-Protected Gold Nanoclusters for Biomedical Applications | Aminfar, Parimah

**Poster 65** - Water-Stable Halide Perovskite Nanocrystals in Polymer Nanoparticles | Yiru Huo