



# **LABI** BUENOS AIRES **MEETING**

November 10 - 12 • 2025



Latin America  
Bioimaging



The logo features the text "LABI" in a large, bold, black sans-serif font. To its right, the words "BUENOS AIRES" are written in a smaller, white sans-serif font inside a blue rectangular box. Above the "BUENOS AIRES" box is a stylized yellow sunburst icon. Below "LABI BUENOS AIRES" is the word "MEETING" in a large, bold, black sans-serif font. At the bottom of the logo is the word "CONTENTS" in a large, bold, black sans-serif font.

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## Organizing Committee Members

### Program Committee



**Lía Pietrasanta**  
IFIBA, Universidad de Buenos Aires,  
Argentina



**Iskra Tuero**  
Universidad Peruana Cayetano  
Heredia, Peru



**Christopher Wood**  
LNMA, Universidad Nacional  
Autónoma de México



**Gregory Kitten**  
Universidade Federal Minas Gerais,  
Brazil



**Kildare Miranda**  
IBCCF, Universidade Federal do  
Rio de Janeiro, Brazil



**Andrés Olivera**  
LABI Project Manager, Institut  
Pasteur de Montevideo, Uruguay

### Local Committee

**Agustín Corbat** - Instituto de Física de Buenos Aires (IFIBA)

**Alejandra Ross** - Fundación Instituto Leloir

**Andres Rossi** - Fundación Instituto Leloir

**Claudia Marchi** - Instituto de Física de Buenos Aires (IFIBA)

**Cora Pollak** - Instituto de Investigaciones de Biomedicina de Buenos Aires (IBIOBA)

**Hernán Grecco** - Instituto de Física de Buenos Aires (IFIBA)

**Lorena Sigaut** - Instituto de Física de Buenos Aires (IFIBA)

**Lucía Lopez** - Centro de Investigaciones en Bionanociencias (CIBION)

**Mariano Soiza-Reilly** - Instituto de Fisiología, Biología Molecular y Neurociencias (IFIBYNE)

**Valeria Levi** - Instituto de Química Biológica (IQUIBICEN)

**Victoria Repetto** - Instituto de Química Biológica (IQUIBICEN)

### Working Group Coordinators



Training & Education



**Andrés Rossi**



**Marcela Diaz**



**Victoria Repetto**



**Ivan Rey**



Outreach & Integration



**Mariana De Niz**



**Hernán Grecco**



**Lyciel Paulas**



**Haydee Hernandez**



Image Data Science



**Adán Guerrero**



**Federico Lecumberry**



**Paúl Hernandez**



## DAY 1: NOVEMBER 10 - TECHNOLOGY IN ACTION

*Driving Scientific and Biomedical Breakthroughs*

### MORNING SESSION (8:00-12:30)

#### 8:00-9:00 | Registration + Welcome

**Location:** Main lobby and registration area

**Description:** Participants receive conference materials, name badges, and networking information. Welcome informal atmosphere for initial networking. Registration desk staffed with local organizing committee members to assist with logistics, transportation, and local information.

#### 9:00-9:20 | Institutional Opening

**Location:** Main auditorium

**Description:** Official welcome ceremony featuring LABI Direction, IFIBYNE host center representatives, and sponsor acknowledgments. Community milestone celebration highlighting LABI's growth and achievements since last year. Brief overview of meeting objectives and expected outcomes for strengthening Latin America's bioimaging ecosystem.

#### 9:20-10:00 | Keynote - Innovating at the Edge of Imaging Technologies

**Speaker:** [Fernando Stefani](#) - Director, Centro de Investigaciones en Bionanociencias (CIBION), CONICET, Argentina

**Description:** State-of-the-art presentation on disruptive technologies revolutionizing biomedical discovery. Focus on emerging imaging modalities, and next-generation microscopy techniques. Discussion of how cutting-edge technologies can be adapted and implemented across Latin American research institutions, addressing both opportunities and challenges for regional adoption.

#### 10:00-10:15 | *Biolmaging Networks* - Claire Brown - ABIF, McGill University, Canadá

#### 10:20-11:00 | Round Table: Democratizing Advanced Technology in Latin America

**Description:** Dialogue on barriers, strategies, and sustainability models to advanced imaging access across the region. Discussion topics include infrastructure models, open hardware sustainability, policy advocacy, and innovative funding mechanisms. Participants explore strategies for resource sharing and technology adoption. Open exchange period allows audience participation and regional perspective sharing.

**Time:** 30 min guided discussion + 10 min open exchange



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**Moderator:** Kildare Miranda - Instituto de Biofísica Carlos Chagas Filho, UFRJ, Brazil

- **Carolina Pérez** - Dirección Nacional de Infraestructuras de Investigación Científico-Tecnológicas, Secretaría de Innovación, Ciencia y Tecnología
- **Juliana Oliveira** - LNBio, CNPEM, Brazil
- **Sergio Dehner** - Bio-Ingeniería
- **Francesco Mattia Rossi** - FALAN / Facultad de Ciencias, Udelar, Uruguay

**11:00-11:40 | Coffee Break** - Poster & Sponsor exhibition visits

**11:40-12:30 | Technical Session: *In-vivo* Imaging from cell to human**

This session co-organized with [BRIDGE](#) showcase of successful technology implementation cases adaptable to Latin American contexts. Focus on practical applications, cost-effective solutions, and regional collaboration opportunities.

**Time:** 50 minutes (10 minutes per speaker, followed by 10 minutes for Q&A)

**Moderator:** *Nicole Salgado - Universidad de Chile, Chile*

**Speakers:**

- **Leonel Malacrida** - Unidad de Bioimagenología Avanzada, IPMon/Udelar, Uruguay
- **Rupert Ecker** - CEO TissueGnostics & Adjunct Professor at Queensland University of Technology, Australia
- **Emiliano Medei** - Instituto de Biofísica Carlos Chagas Filho, UFRJ, Brazil
- **Fernanda Tovar-Moll** - D'Or Institute for Research and Education / BRIDGE

*10 min Q&A after all presentations*

**12:30-13:00 | Lightning Talks**

**Location:** Main auditorium

**Description:** Rapid-fire presentations (5 minutes each + 2 minutes Q&A) featuring emerging researchers, innovative projects, and collaborative initiatives. Platform to showcase their work and network. Topics include novel imaging applications, software development, and data management innovations.

**Moderator:** *Vanessa De Cássia - Faculdade de Medicina de Botucatu, UNESP, Brazil*

- **Charlotte Buckley:** Generating and Analysing Intercellular Ca<sup>2+</sup> Waves on the Mesoscale
- **Armando Castillo:** La investigación en bioimágenes en Panamá

- **Moara Lemos:** Aspectos da fabricação do crio-lamelas e da crio-tomografia de elétrons
- **Laura Estrada:** Exploring Cellular and Molecular Dynamics through Light
- **Greg Kitten:** LatAm Secondary Ion Mass Spectrometry Network

### **13:00-14:30 | Lunch + Networking**

**Location:** Dining area and exhibition hall

- Networking Lunch
- Sponsor exhibition visits & Posters

### **AFTERNOON SESSION (14:30-18:00)**

#### **14:30-15:00 | LABI Working Groups Report**

**Location:** Main auditorium

**Description:** Progress updates and achievements from LABI's three core working groups. Each group presents recent accomplishments, ongoing initiatives, and future planning.

#### **Working Groups:**

- Data Science for Bioimaging WG
- Outreach & Integration WG
- Training & Education WG

#### **15:00-16:00 | Structured Networking: Building New Initiatives (Only In-Person)**

**Location:** Multiple breakout rooms

**Description:** Participatory planning sessions designed to foster new collaborations and initiatives. Parallel tracks allow participants to engage based on interests and expertise.

#### **Track Options:**

- **Impact Measurement**  
*Focus:* Developing metrics for research infrastructure access and community impact assessment
- **Industry Partners Working Group Launch**  
*Focus:* Establishing sustainable industry-academia partnerships and technology transfer mechanisms



# LABI BUENOS AIRES MEETING

- **Global South Perspectives on Microscopy Training LABI - [ABIC](#)**  
*Focus: International collaboration development and resource sharing*

## **16:00-16:30 | Day 1 Wrap-up + Coffee Break**

**Location:** Main auditorium

**Description:** Synthesis of key insights from Day 1 sessions and orientation for Day 2 activities. Continued poster presentations with networking reception atmosphere preparing for the evening ceremony.

## **17:00-18:30 | Honoris Causa Ceremony (*Only In-Person*)**

**Honoree:** [Carlos Bustamante](#) - Professor, UC Berkeley Research

**Location:** Aula Magna, Pabellón 2 - FCEN

### ***The development of single-molecule force spectroscopy***

**Description:** Recognition ceremony celebrating outstanding contributions to bioimaging and scientific excellence. Formal presentation highlighting the honoree's impact on the field, followed by an inspirational address to the community. Reception networking follows the ceremony, providing opportunities for informal interaction with the honoree and community leaders.

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## **DAY 2: NOVEMBER 11 - DATA SCIENCE & INFRASTRUCTURE**

*Building Foundations for Open, FAIR, and AI-Ready Data*

### **MORNING SESSION (9:00-12:30)**

#### **9:00-9:20 | Welcome Back**

**Location:** Main auditorium

**Description:** Day 1 synthesis and key takeaway review. Orientation for Day 2 focus on data science, infrastructure development, and FAIR data principles. Brief overview of parallel workshop options and networking opportunities available throughout the day.

#### **9:20-10:00 | Keynote**

**Location:** Main auditorium

**Speaker:**

[Stephan Preibisch](#) is Director of Scientific Computing Software at HHMI Janelia, specializing in peta-scale electron and light microscopy reconstruction. Previously a research group leader in Berlin, he develops open-source tools for lightsheet microscopy, spatial transcriptomics, and machine learning. He co-founded Janelia's Open Science Software Initiative and contributes to Fiji, ImgLib2, BigDataViewer, BigStitcher and spatial transcriptomics RS-FISH and STIM projects.

**10:00-10:15 | Platinum Sponsor Presentation ZEISS**

**10:20-11:00 | Round Table: Towards Regional Open Data Infrastructure**

**Description:** Strategic discussion on developing sustainable, open data infrastructure across Latin America. Exploration of regional computing networks, data sharing protocols, and collaborative governance models. Focus on connecting national and institutional data nodes, establishing interoperability standards, and creating sustainable funding mechanisms for data infrastructure maintenance and development.

**Location:** Main auditorium

**Moderator:** Chris Wood - Laboratorio Nacional de Microscopía Avanzada, UNAM, México

Speakers:

- **Kaitlin Thaney** - Executive Director, Invest in Open Infrastructure *\*Virtual*
- **Nicolás Wolovick** - CCAD, UNC, Argentina / SCALAC *\*Virtual*
- **Fernanda Tovar Moll** - D'Or Institute for Research and Education / BRIDGE
- **Steffen Hartel** - SCIAN-Lab, Faculty of Medicine, U-Chile

**11:00-11:40 | Coffee Break - Structured poster viewing & Sponsor exhibition visits**

**11:40-12:30 | Technical Session: Practical experience from Data formats to AI**

**Description:** Practical case studies demonstrating successful data science implementations on imaging across the region or beyond. Focus on AI application, open-source tools, workflow development, and community-driven solutions.

**Time:** 50 minutes (10 minutes per speaker, followed by 10 minutes for Q&A)

**Moderator:** *Federico Lecumberry, IMAGINA, Facultad de Ingeniería, Udelar, Uruguay*

**Speakers:**

- **Andrea Lara** - Universidad Galileo, Guatemala
- **Enzo Ferrante** - Instituto de Investigación en Ciencias de la Computación, UBA
- **Rosana Souza Rodrigues** - D'Or Institute for Research and Education / UFRJ

*10 min Q&A after all presentations*

**12:30-13:00 | Lightning Talks**

**Location:** Main auditorium

**Description:** Second round of rapid presentations focusing on data science applications, software development projects, and infrastructure innovations. Platform for showcasing computational tools, analysis pipelines, and data sharing initiatives developed within the regional community.

**Moderator:** *Haydee Hernandez - Centro de Investigación en Ciencias, UAEM, México*

- **Ivanel Bramati** - Brain Research International Data Governance & Exchange (BRIDGE): the Latin America perspective
- **Nicole Salgado:** MicroMundo: An Open-Access Microscopy Platform for Latin America
- **John Ortiz:** PollenGeo, una plataforma de software libre para la adquisición semiautomatizada de imágenes
- **Mauricio Cerdá:** Advanced Biomedical Storage and Computing Services System (SASIBA2) at the University of Chile
- **Agustin Corbat:** Global BioImage Analysts' Society - GloBIAS

**13:00-14:30 | Lunch + Networking**

**Location:** Dining area and exhibition hall

- Networking Lunch
- Sponsor exhibition visits & Posters

**AFTERNOON SESSION (14:30-18:30)**

**14:30-16:30 | Parallel Workshops & Sessions**

**Location:** Multiple workshop rooms

**Description:** Intensive, hands-on learning opportunities with expert-led sessions. Participants choose between practical skill development or strategic networking based on their interests and career stage.

**Track A : Data Science for Bioimaging WG - Hands-on FAIR Data Management**

(\* Virtual)

*Description:* Practical workshop by [ELIXIR](#) on implementing FAIR data principles in bioimaging research. This activity is supported by the LABI WG - Data Science for Bioimaging

**Track B (In-person):** Structured Networking - Connecting Needs & Capacities.

- [BRIDGE](#) Round Table: “Data Sharing in Latin America”

Introduce the BRIDGE project and present the survey results about research collaboration across Latin America. Open for a brief discussion regarding North-South vs South-South collaboration. The moderated discussion with BRIDGE members and invited representatives will address common barriers to data sharing, aiming to raise awareness and foster sustainable regional collaboration.

- [MetaDocencia](#) Unlocking Funding Opportunities for Scientists – Grant Writing

Led by MetaDocencia, this session offers a combination of practical training and peer learning to enhance researchers’ ability to access funding. Grounded in recent evidence ([Formoso et al. 2025](#)), participants will discuss core grant writing skills, reflect on shared challenges, and exchange strategies for navigating funders’ expectations. This session will emphasize collaborative approaches and knowledge sharing to promote sustainable research.

**16:30-17:00 | Coffee Break**

**17:00-17:15 | Promoting Global Connection & Regional Integration**

**17:15-17:45 | Day 2 Synthesis & Day 3 Orientation**

**Location:** Main auditorium

**Description:** Closing session synthesizing key insights from data science and infrastructure discussions. Community visioning exercise for LABI's future development. Detailed orientation for Day 3 facility visits and outreach activities, including logistics, group assignments, and expected outcomes.

**18:00 - 20:30 | Extra Conference Activity (by adhesion) (Only In-Person)**

**Location:** TBD

**Description:** Optional social gathering featuring traditional Argentine cuisine and cultural experience. Informal networking opportunity in a relaxed atmosphere, allowing for deeper personal connections and cultural exchange among international participants.



# LABI BUENOS AIRES MEETING

## DAY 3: NOVEMBER 12 - FACILITY VISITS & OUTREACH ACTIVITY (*Only In-Person*)

### MORNING SESSION (9:00-12:30)

9:00-12:30 | Facility Visits at Universidad de Buenos Aires

**Location:** Various UBA facilities and research centers

**Description:** In-person experience visiting bioimaging facilities across Universidad de Buenos Aires campus. Participants will be divided into small groups for intimate facility tours, equipment demonstrations, and technical discussions with facility managers and researchers.

#### Visit Options Include:

- Advanced Core Imaging Facilities
- Research Laboratory Visits
- Technical Infrastructure
- Collaborative Spaces

### AFTERNOON SESSION (14:30-17:30)

14:30-17:30 | Outreach Activity

**Location:** Venue TBD in Buenos Aires

**Description:** Community engagement initiative demonstrating LABI's commitment to science education and public outreach. Participants collaborate in activities designed to share bioimaging science with broader audiences and strengthen connections between research institutions and local communities.

#### Outreach Options:

- **Educational School Visits:** Interactive demonstrations at local schools, introducing students to microscopy and bioimaging through hands-on activities
- **Community Science Initiatives:** Engagement with local community organizations to demonstrate the relevance of bioimaging research to public health and environmental challenges

## Partner Organizations



## Supporters

**Chan  
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## Sponsors

### Diamond



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### Platinum



# LABI BUENOS AIRES MEETING

## Gold



## Silver



## Bronze

