

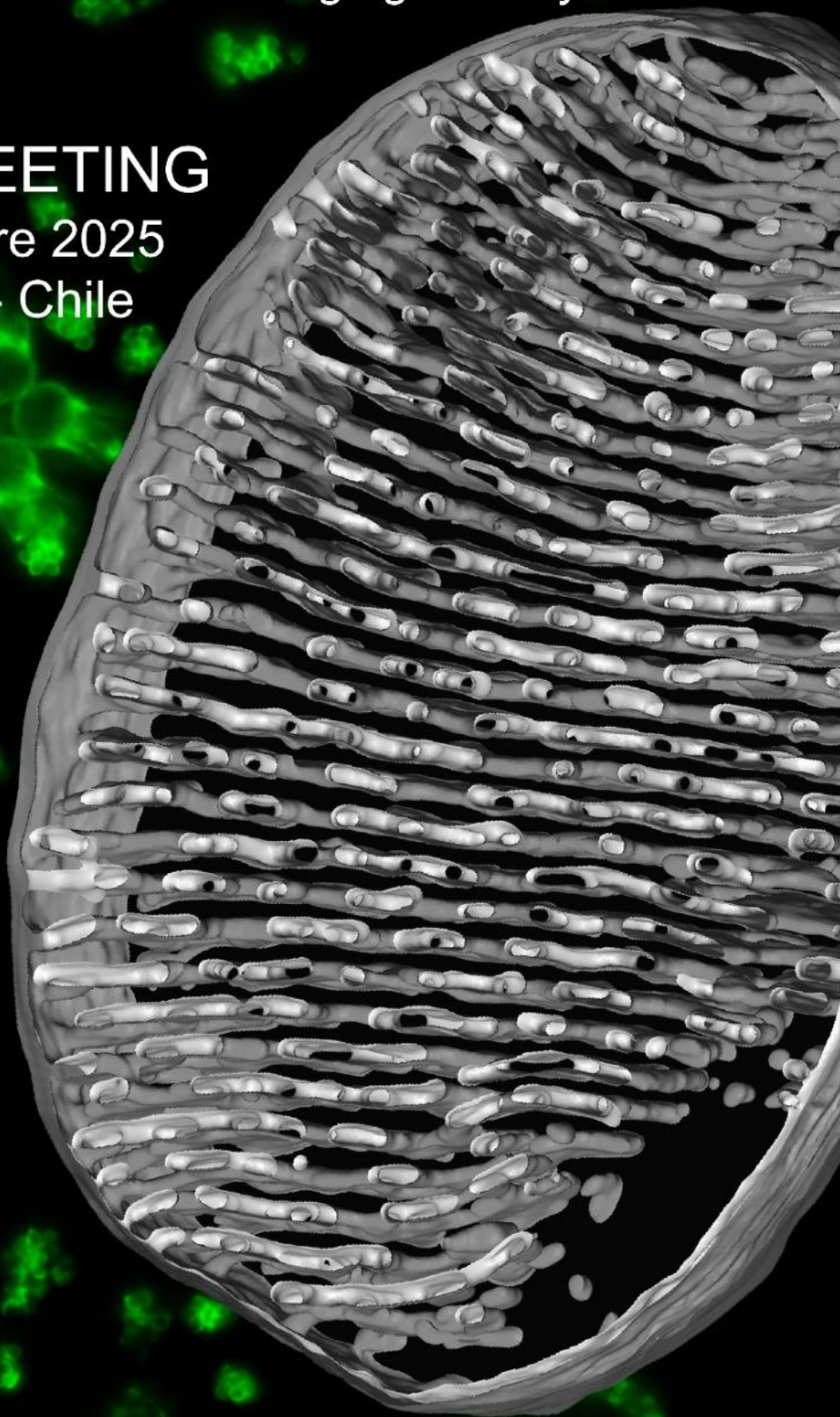


Sociedad Chilena de
Imágenes Científicas (SoChIC)
Chilean Scientific Imaging Society

1ST ANNUAL MEETING

21-22 de Noviembre 2025

UACH – Valdivia - Chile



Plataformas UC



1st Annual Meeting SoChIC
Chilean Scientific Imaging Society
21-22 November, 2025
Auditorio Esteban Rodriguez, F-Med, Universidad Austral de Chile
y Hotel Puerta del Sur, Valdivia, Chile

PROGRAM

Arranged by:

Sebastian Brauchi, *Universidad Austral de Chile*

Verónica Eisner, *Pontificia Universidad Católica de Chile*

Steffen Härtel, *Universidad de Chile*

Mauricio Cerda, *Universidad de Chile*

Planner

Friday	8:30 am	Opening Remarks
Friday	9:00 am	S1: Forces & Microscopy
Friday	11:00 am	S2: Image Analysis
Friday	15:00 pm	My image in 3 minutes
Friday	16:00 pm	Poster Session
Friday	6:00 pm	SoChIC meeting
Friday	8:00 pm	Social Hour
Saturday	9:00 am	S3: Imaging in Cell Biology
Saturday	11:00 am	S4: Illuminating Neuroscience I
Saturday	2:30 pm	Round Table
Saturday	4:00 pm	S5: Illuminating neuroscience II
Saturday	6:00 pm	S6: Imaging from nano to celestial dimensions
Saturday	7:00 pm	Closing remarks
Saturday	8:00 pm	Dinner

SoChIC thanks support from:

Pew Biomedical Programs

Chan Zuckerberg Initiative

Microxchile, Zeiss distributor in Chile

REDECA, ICBM, F-Med, U-Chile

Plataformas UMA, UC

Facultad de Medicina UACH

Friday 21 November, 2025 - Auditorio Esteban Rodriguez, F-Med, UACH	
08:30 - 08:45	Accreditation
08:45 - 09:00	Welcome & Introduction
Scientific Session 1: Forces & Microscopy / Chair: Sebastian Brauchi	
09:00 - 09:30	Luciana Bruno , Universidad de Buenos Aires, Argentina <i>Deciphering Intracellular Forces: How Cytoskeletal Interactions Shape Mitochondrial Morphology and Motility</i>
09:30 - 10:00	Miguel Concha , Universidad de Chile <i>"Under Tension: Mechanics And Developmental Transitions In Annual Killifish Development"</i>
10:00 - 10:30	Charlotte Buckley , Universidad Mayor <i>Ca²⁺ Imaging Reveals Mechanistic Insights into Endothelial Cell Communication</i>
10:30 - 11:00	Coffee Break
Scientific Session 2: Image Analysis / Chair: Mauricio Cerda	
11:00 - 12:00	Federico Lecumberry , Universidad de la República, Uruguay <i>Machine Learning Based Computational Super-Resolution Fluorescence Microscopy</i>
12:00 - 12:30	Jorge Jara , Universidad de Chile <i>Getting Membranes Into Shape? Optimizing Contour Models For Shape Measurements In Resolution-Constrained Cell Microscopy Images</i>
12:30 - 13:00	Fabián Segovia , Universidad de Concepción <i>When Liver Microarchitecture Fails: 3d Geometrical Insights Into Bile Canaliculi Disruption In Fatty Liver Disease</i>
13:00 - 15:00	Lunch
Student Imaging Competition / Chair: Verónica Eisner	
15:00 - 16:00	<i>My Image in 3 minutes</i> Student Presentations, Auditorio Esteban Rodriguez, F-Med, UACH
Poster Session	
16:00 - 18:00	Poster Session & Coffee Student Presentations
18:00 - 19:00	SoChIC Meeting, F-Med, UACH (TBD)
20:00 - 22:00	Social Hour F-Med, UACH

Saturday 22 November, 2025 - Auditorio Esteban Rodriguez, F-Med, UACH	
Scientific Session 3: Imaging in Cell Biology / Chair: Andrew Quest	
09:00 - 09:30	Christopher Obara , University of California San Diego, US <i>Integrating Dynamic and Cryogenic Imaging Technologies to Map the Landscape of Organelle Membranes</i>
09:30 - 10:00	María Isabel Yuseff , Pontificia Universidad Católica de Chile <i>Imaging Immune Cell Activation: From Cell Biology to Immunology</i>
10:00 - 10:30	Leonardo Valdivia , Universidad Mayor <i>Watching Eyes Take Shape</i>
10:30 - 11:00	Coffee Break
Scientific Session 4: Illuminating Neuroscience I / Chair: Vicente Parot	
11:00 - 11:30	Felipe Barros , Centro de Estudios Científicos, Universidad San Sebastián <i>Impact of Fluorescence Imaging on Metabolism Research</i>
11:30 - 12:00	Lisette Leyton , Universidad de Chile <i>Microscopy And Image analysis in Studying Neuron-Astrocyte Interactions</i>
12:00 - 12:30	Víctor Hugo Cornejo , Pontificia Universidad Católica de Chile <i>Cracking Synaptic Physiology With All-Optical Tools in Vivo</i>
13:00 - 14:30	Lunch
Round Table:, Auditorio Esteban Rodriguez, FacMed, UACH	
14:30 - 15:30	Fostering Imaging Facilities in Chile <i>Challenges And Opportunities In Developing Imaging Facilities</i>
Scientific Session 5: Illuminating Neuroscience II / Chair: Víctor Hugo Cornejo	
16:00 - 16:30	Maite Castro , Universidad Austral de Chile <i>Back to the Future of Brain Energy: Old Tricks, New Tools</i>
16:30 - 17:00	John Ewer , Universidad de Valparaíso, CINV <i>Using The Gcamp Calcium Sensor To Dissect Neuronal Function</i>
17:00 - 17:30	Vicente Parot , Pontificia Universidad Católica de Chile <i>All Optical Neurophysiology Using High Speed Optical Sectioning</i>
17:30 - 18:00	Coffee Break
Scientific Session 6: Imaging from nano to celestial dimensions / Chair: Steffen Hartel	
18:00 - 18:30	Víctor Castro-Fernandez , Universidad de Chile <i>High-Resolution Cryo-electron Microscopy and Crystallography Reveal the First Structural Model of the Immunogenic Hemocyanin from Concholepas concholepas</i>
18:30 - 19:00	Sebastian Espinosa , Universidad Técnica Federico Santa María, Astro-IDS <i>A Review on Fundamental Bounds and Estimators for Photometry and Astrometry of Celestial Point Sources using Array Detectors, from First Principles</i>
Closure	
19:00 - 19:15	Closing remarks
20:00 - 22:00	Social Event and Dinner @ Hotel Puerta del Sur Hotel

- Poster dimensions are 90cm x 140cm (vertical layout)

Locations

- Hotel Puerta del Sur Hotel
- Auditorio Esteban Rodríguez, F-Med, UACH

