



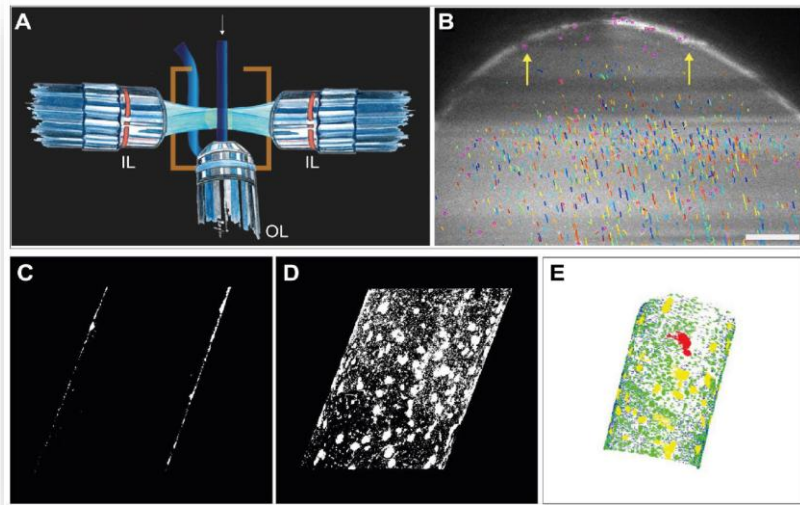
Prof. Dr. Steffen Härtel

www.scian.cl / www.cimt.cl / www.cens.cl / www.bni.cl / www.rsdue.cl

Laboratory for Scientific Image Analysis (SCIAN-Lab)
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Núcleo Milenio de AutoOrganización y Mecánica de Tejidos (SELFO)

Facultad de Medicina, Universidad de Chile

Microscopy and Image Processing



Canales et al. 2025, *Microbial Pathogenesis*

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Innovative Biotechnological Approaches for Biofilm Control and Characterization

HOME / COURSES / INTERNATIONAL COURSES / INTERNATIONAL COURSES 2025 /

2025
October, 13-24

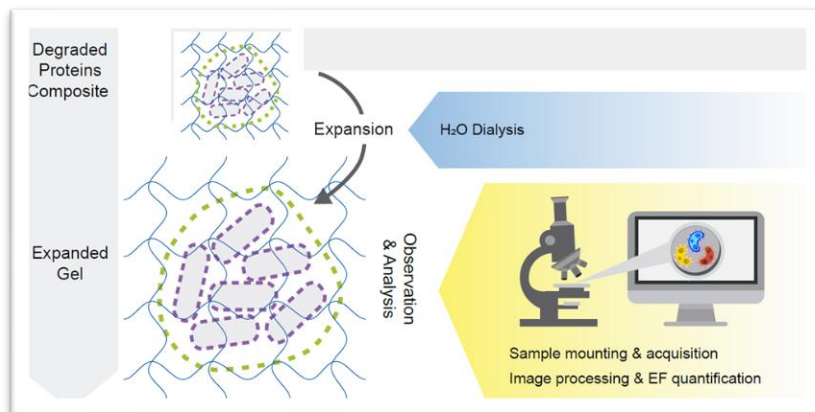
Innovative Biotechnological Approaches for Biofilm Control and Characterization

Instituto de Investigaciones Biológicas Clemente Estable, Montevideo, Uruguay.

Fellowships

- 10 total fellowships that include air-tickets (only for South America countries), lodging, meals (coffee break and lunch).
- 5 partial fellowships: air-tickets and meals (coffee break and lunch).

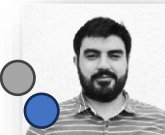
<https://scian.cl/scientific-image-analysis>



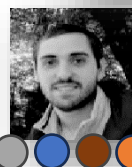
Castagnini et al. 2025, *JoVE*, 2024 *J. of Microbiological Methods*



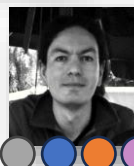
■ Prof Dr Steffen Härtel
Biophysics, SCIAN-Lab
Director



■ Prof Dr Mauricio Cerda,
Computer & Data Science, PI
@ SCIAN-Lab



■ Prof Dr Víctor Castañeda,
Electrical Engineering, PI @
SCIAN-Lab / DeTeM



■ Dr Jorge Jara, Computer
Science & Image Processing,
PostDoc @ SCIAN-Lab



■ MSc Constanza Vásquez,
Biomedical Engineering,
Computer / Machine Learning
@ SELFO / SCIAN-Lab



■ MSc Roberto Rojas, Electrical
Engineering / Machine
Learning @ SCIAN-Lab

■ Malcolm Moreno,
SysAdmin @ REDECA-BNI & SCIAN-Lab

■ Dr Karina Palma, PostDoc
Microscopy @ SCIAN-Lab & REDECA

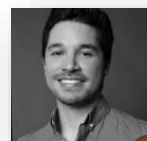
■ Dr Carmen Lemus, Developmental
Biologist, SELFO PostDoc @ SCIAN/LEO

■ Francisca Valdés,
Medical Technology & Microscopy @
REDECA / SCIAN-Lab

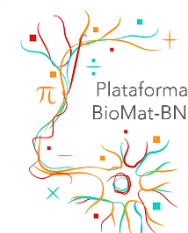
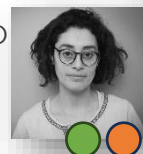
■ MSc Nicole Canales,
Medical Technology & Microbiology @
SCIAN-Lab IIBCE !

■ Dante Castagnini, SCIAN-Lab Alumni,
Biochemist @ PUC

■ Dr MD Camilo Sotomayor,
Medicine @ HCUCH



FACULTAD DE
MEDICINA
UNIVERSIDAD DE CHILE



Human Intelligence @ BioMat LEO/SCIAN/BNI

Supports scientists, students and collaborators
in developing, applying, training and service
provision, accessing quantitative approaches
upon advanced microscopy, 3D design, and
large data management & processing.



Links & Software

Links

- The Scale of the Universe <https://htwins.net/scale2>
- Global Imaging <https://globalbioimaging.org>
- Latin American Bioimaging <https://labi.lat/es>
- Red de Equipamiento Científico Avanzado <https://redec.med.uchile.cl>
- Microscopy Australia <https://myscope.training>
- Photomultipliers <https://evidentscientific.com/en/microscope-resource/knowledge-hub/digitalimaging/concepts/photomultipliers>
- Chrome Spectra Viewer www.chroma.com/spectra-viewer
- ThermoFisher Spectra www.thermofisher.com/order/fluorescence-spectraviewer

Software (1-2 are essential for the course, 3 could be...)

1. **SVI Huygens Software, deconvolution:** https://svi.nl/tiki-login_scr.php
2. **FIJI, an image processing package built upon ImageJ:** <https://fiji.sc>
...plus MicrobeJ plug-in <https://www.microbej.com/download-2/>
3. ilastik, interactive learning & segmentation toolkit <https://www.ilastik.org/>
4. BioImage Model Zoo <https://bioimage.io/#/models>
5. CellProfiler, pipelines <http://cellprofiler.org>
6. Icy, an open community platform for bioimage informatics: <http://icy.bioimageanalysis.org>



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

1ST ANNUAL MEETING
November 21-22, 2025
UACH - Valdivia - Chile

Speakers
Felipe Barros (USS-CECs)
Luciana Bruno (UBA)
Charlotte Buckley (UMayor)
Maite Castro (UACH)
Victor Castro-Fernandez (UChile)
Miguel Concha (UChile)
Victor Hugo Cornejo (PUC)
John Ewer (UVA-CINVA)
Sebastian Espinoza (UTFSM)
Jorge Jara (UChile)
Federico Lecumberry (UdelaR)
Lisette Leyton (UChile)
Judit Lisoni (UACH)
Christopher Obara (UCSD)
Vicente Parot (PUC)
Fabian Segovia (UdeC)
Justin Taraska (NIH)
Nicole Tischler (USS-FCV)
Leonardo Valdivia (UMayor)
Maria Isabel Yuseff (PUC)

Organizers
Sebastian Brauchi (UACH)
Mauricio Cerda (UChile)
Steffen Härtel (UChile)
Verónica Eisner (PUC)

Registration Information
 

LABI Meeting 2025: From Data to Discovery



NOV
10th to 12th

REGISTER NOW

LABI MEETING BUENOS AIRES 2025



10 al 12 de noviembre –
Buenos Aires, Argentina

21 al 22 de noviembre –
Valdivia, Chile