

SOCIEDAD ESPAÑOLA DE ÓPTICA

FORMULARIO PARA LA RECOGIDA DE DATOS DE LAS ACTIVIDADES DESARROLLADAS POR LOS COMITÉS

COMITÉ DE CIENCIAS DE LA VISION

AÑO: 2025



ACTIVIDADES ORGANIZADAS POR EL COMITÉ

ENERO 2025

2025 Young researchers biophotonics winter meeting

En Enero de 2025, celebramos el 2025 Young researchers biophotonics winter meeting, con aproximadamente 50 asistentes, mostrando el buen estado de esta serie de seminarios que venimos realizando desde 2018.

2025 Young researchers biophotonics winter meeting
January 13th. 15.00-17.30

15:00-15:10 WELCOME Vision Science Committee @SEDOPTICA
Mikel Aldaba | Polytechnic University of Catalonia, Spain

15:10-16:00 KEYNOTE SPEAKER
Optical tomography of challenging samples using acoustic levitation and rotation
Monika Ritsch-Marte | University of Innsbruck, Austria
Discussion
Moderator: Alba Paniagua | University of Castilla-La Mancha, Spain

16:00-16:45 BIOPHOTONICS ENGINEERING
Towards high-speed optical coherence tomography through downconversion master slave and bidirectional sweeping
Alejandro Martínez Jiménez | University of Kent, UK
A wide angle two-dimensional peripheral refractor
Santiago Sager La Gargal | University of Murcia | Voptica, Spain
Digital twins for the cornea: a finite element perspective on corneal opto-biomechanics
Benedetta Fantaci | University of Zaragoza, Spain
Moderator: Alba Paniagua | University of Castilla-La Mancha, Spain

16:45-17:30 CLINICAL APPLICATIONS
Silk fibroin based membranes for ophthalmological applications
Rocio Gutiérrez | Spanish National Research Council (IO-CSIC), Spain
A statistical modelling approach to ocular wavefronts with accommodation
Marta Meche García | University of Minho, Portugal
The role of purinergic receptors in the onset and progression of myopia
Alba Martín Gil | Complutense University of Madrid, Spain
Moderator: Clara Mestre | Polytechnic University of Catalonia, Spain

17:30-17:35 CLOSING REMARKS

++ INFO & REGISTRATION
https://www.sedoptica.es/comites_SEDO/vision/actividades.html
REGISTRATION FORM: <https://forms.gle/NLzmvZNbj2UuEdaG7>
Meet LINK: <https://meet.google.com/rhz-bgza-rxx>
ccvision@sedoptica.com



Actividades del Comité de Ciencias de la Visión 2025

2025 Biophotonics for EyE Research Summer School @Sedoptica

El Comité de Ciencias de la Visión y la Universidad de Granada organizaron durante la primera semana de junio la escuela de verano Biophotonics for Eye Research summer school @Sedoptica (BER2025) en Granada. La Escuela consistió en una serie de clases, conferencias invitadas, sesiones de póster y contribuciones científicas con especial hincapié en promover la discusión y la interacción entre sus asistentes.

El comité científico y organizador del evento fue el siguiente:

ORGANIZING & SCIENTIFIC COMMITTEE

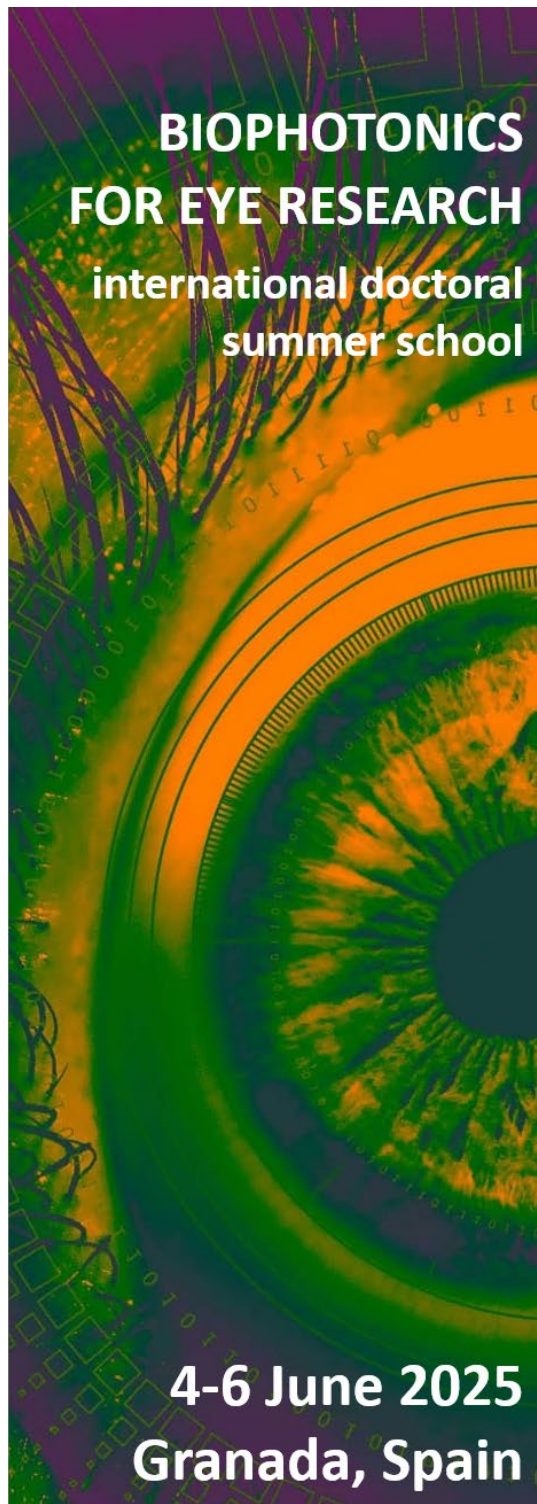
María Viñas	Institute of Optics-CSIC (Spain)
Mikel Aldaba	Technical University of Catalonia-UPC (Spain)
Clara Mestre	Technical University of Catalonia-UPC (Spain)
Alba Paniagua	University of Castilla La Mancha (Spain)
José Juan Castro	University of Granada (Spain)
Justo Arines	University of Santiago de Compostela-USC (Spain)
María S. Millán	Technical University of Catalonia-UPC (Spain)
E Josua Fernández	University of Murcia (Spain)
Juanma Bueno	University of Murcia (Spain)
Pablo Artal	University of Murcia & VOPTICA (Spain)
Aixa Alarcón	Johnson & Johnson Vision (The Netherlands)
Susana Marcos	University of Rochester (USA)
Carlos Dorronsoro	Institute of Optics-CSIC & 2EyesVision (Spain)
Jaume Pujol	Technical University of Catalonia-UPC (Spain)
Brian Vohnsen	University College Dublin (Ireland)
Christina Schwarz	University of Tübingen (Germany)
Katarzyna Komar	Int. Centre for Translational Eye Research (Poland)
Linda Lundström	KTH Royal Institute of Technology (Sweden)
Walter Furlan	University of Valencia (Spain)
Laura Remon	University of Zaragoza (Spain)
Jose M. Meijome	University of Minho (Portugal)

LOCAL COMMITTEE

José Juan Castro;
Sonia Ortiz;
Miriam Casares;
José Ramón Jiménez;
Rosario González;
Francesco Martino;
Pilar Granados;
Luis J. del Barco

Y este el programa científico del evento:

	<i>4 June-Wednesday</i>	<i>5 June-Thursday</i>	<i>6 June-Friday</i>
		<i>BREAKFAST WITH THE EXPERTS</i>	
		<i>KEYNOTE TALK</i>	
Morning		<i>SESSION I</i> Optics and vision	<i>SESSION IV</i> New horizons in refractive, cataract and eye surgery
		<i>SESSION II</i> Structural & Functional disruptions of the eye	<i>SESSION V</i> Visual Function, Smart Glasses and Diagnostics tools
Afternoon	<i>SOCIAL EVENT</i> Networking poster session sponsored by OPTICA Ambassador program	<i>SESSION III</i> Microscopy, retina and beyond	<i>POSTER SESSION</i>
	<i>BIOPHOTONICS: INDUSTRIAL APPLICATIONS</i>	<i>YOUNG RESEARCHERS ORAL SESSION</i>	<i>KEYNOTE TALK, AWARDS CEREMONY & CLOSING REMARKS</i>
Evening	<i>KEYNOTE TALK</i>	<i>SOCIAL EVENT</i> Carmen de la Victoria	<i>VISIT TO LA ALHAMBRA</i>
	<i>WELCOME RECEPTION</i>		



The Biophotonics for Eye Research international doctoral summer school is a scientific meeting dealing with aspects of the Physics and Engineering of the human eye.

This meeting aims to follow on from the summer schools organized previously by the Visual Sciences committee of the Spanish Optical Society (SEDOPTICA). In this meeting, we shall focus on new results and techniques in imaging technology and optics of vision.

The format of the meeting is a series of classes, invited lectures with ample time for discussion and interaction, and scientific contributions presentations. The interaction of basic science and cutting edge technology to develop future solutions for better vision will be at the center of the workshop.

Young researchers and doctoral students will present their research in dedicated sessions.

The meeting will be hosted by the University of Granada in the summer of 2025.



En números, BER2025

101 asistentes de 16 nacionalidades.

3 conferencia magistrales o keynote talks

- Pablo Artal.
- Susana Marcos.
- Kate Grieve.

25 charlas invitadas.

5 contribuciones orales de jóvenes investigadores.

46 contribuciones poster de jóvenes investigadores.

3 premios mejor contribución científica.

- Rosa Vila Andrés.
- Petros Papadogiannis.
- Nathaniel Norberg.

7 travel grants SPIE.

25 travel grants OPTICA.

Programa y galería de imágenes en la web del evento:

<https://ber.sedoptica.es/>

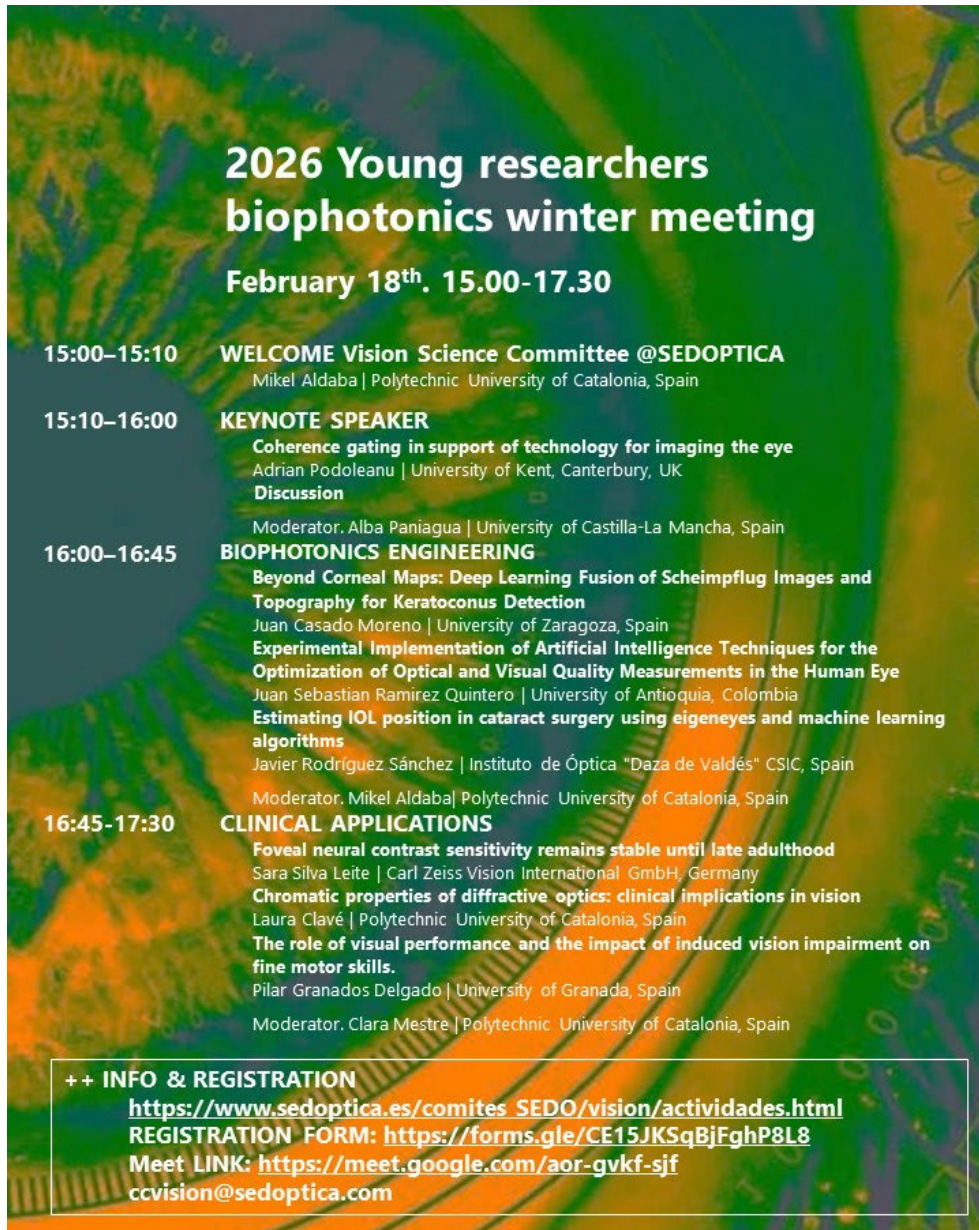


PROPUESTAS Y PROYECTOS DE LOS COMITÉS PARA EL AÑO 2026

ENERO 2026

2026 Young researchers biophotonics winter meeting

Organización de la edición de 2026 del Young researchers biophotonics winter meeting.



**2026 Young researchers
biophotonics winter meeting**

February 18th. 15.00-17.30

15:00–15:10 WELCOME Vision Science Committee @SEDOPTICA
Mikel Aldaba | Polytechnic University of Catalonia, Spain

15:10–16:00 KEYNOTE SPEAKER
Coherence gating in support of technology for imaging the eye
Adrian Podoleanu | University of Kent, Canterbury, UK
Discussion
Moderator: Alba Paniagua | University of Castilla-La Mancha, Spain

16:00–16:45 BIOPHOTONICS ENGINEERING
Beyond Corneal Maps: Deep Learning Fusion of Scheimpflug Images and Topography for Keratoconus Detection
Juan Casado Moreno | University of Zaragoza, Spain
Experimental Implementation of Artificial Intelligence Techniques for the Optimization of Optical and Visual Quality Measurements in the Human Eye
Juan Sebastian Ramirez Quintero | University of Antioquia, Colombia
Estimating IOL position in cataract surgery using eigeneyes and machine learning algorithms
Javier Rodríguez Sánchez | Instituto de Óptica "Daza de Valdés" CSIC, Spain
Moderator: Mikel Aldaba | Polytechnic University of Catalonia, Spain

16:45-17:30 CLINICAL APPLICATIONS
Foveal neural contrast sensitivity remains stable until late adulthood
Sara Silva Leite | Carl Zeiss Vision International GmbH, Germany
Chromatic properties of diffractive optics: clinical implications in vision
Laura Clavé | Polytechnic University of Catalonia, Spain
The role of visual performance and the impact of induced vision impairment on fine motor skills.
Pilar Granados Delgado | University of Granada, Spain
Moderator: Clara Mestre | Polytechnic University of Catalonia, Spain

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Informe realizado por el comité de ciencias de la visión el día 23 de abril de 2026