

# 2025 Young researchers biophotonics winter meeting

January 13<sup>th</sup>. 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 Ganga | 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**

Rocío Gutiérrez | Spanish National Research Council (IO-CSIC), Spain

**A statistical modelling approach to ocular wavefronts with accommodation**

María Mechó 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

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REGISTRATION FORM: <https://forms.gle/NLzmvZNbj2UuEdaG7>

Meet LINK: <https://meet.google.com/rhz-bgza-rrx>

[ccvision@sedoptica.com](mailto:ccvision@sedoptica.com)



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