

Bio-Optics: Design and Application (BODA)

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21 – 24 April 2025
Coronado, California, USA

BODA addresses all aspects of developing and applying biomedical optical technologies for the life sciences, including biology, biotechnology, biophysics, and clinical research.

The topical meeting provides an opportunity for researchers and engineers across both academia and industry to discuss developments and challenges in the design, manufacturing and application of biomedical optical instrumentation.

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Essential Links

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Optica Quantum 2.0 Conference and Exhibition

- [Novel Techniques in Microscopy \(NTM\)](#)
- [Clinical and Translational Biophotonics \(Translational\)](#)
- [Optical Manipulation and Its Applications \(OMA\)](#)

- [Optical Molecular Probes, Imaging and Drug Delivery \(OMP\)](#)
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Topic Categories

Specific topics of interest include:

1. Novel Biomedical Optical Technology
2. Design and Fabrication of Biomedical Optical Devices
3. Ophthalmic Imaging and Sensing
4. Biochips and Optofluidics
5. Instruments and Systems for Clinical Imaging
6. Nanophotonics for Biomedicine
7. Signal and Image Processing for Biomedical Optics
8. Machine Learning for Image Reconstruction, Interpretation and Optical Design

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Committee Members

- Kathy Beaudette, *Castor Optics Inc.; Canada*, **General Chair**
- Martin Villiger, *Wellman Center for Photomedicine, United States*, **General Chair**
- Kate Grieve, *Institut De La Vision Paris, France*, **Program Chair**
- DongKyun Kang, *Univ of Arizona, Coll of Opt Sciences, United States*, **Program Chair**
- Steven Adie, *Cornell University, United States*
- Vanderlei Bagnato, *USP Inst de Fisica de Sao Carlos, Brazil*
- Michalina Gora, *Wyss Center for Bio and Neuro Engineer, Switzerland*
- Pilhan Kim, *Korea Advanced Inst of Science & Tech, Republic Of Korea*
- Kivanc Kose, *Memorial Sloan Kettering Cancer Center, United States*
- Hui Leung, *Indiana University, Bloomington*
- Pedro Mece, *Institut Langevin, France*
- Jonas Ogien, *Damae Medical, France*
- Ruben Ramos-Garcia, *Inst Nat Astrofisica Optica Electronica, Mexico*
- Francisco Robles, *Georgia Institute of Technology*
- Marcelo Saito Nogueira, *Tyndall National Institute, Ireland*
- Ali Yanik, *University of California Santa Cruz*
- Sixian You, *Massachusetts Institute of Technology, United States*
- Linhui Yu, *Apple Inc., United States*

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