Biophysical Society 70th Annual Meeting

Biological Fluorescence Subgroup Symposium

Saturday February 21, 2026

San Francisco, California

Subgroup Chair: Elizabeth Hinde, University of Melbourne, Australia
Symposium Time: 1:30-5:30 PM EST
Subgroup Business Meeting: 3:15 PM
Symposium Room: 303/304

1:30 PM Opening Remarks

1:35 PM Jerome Wenger, CNRS Institut Fresnel, France
Pushing the Boundaries of Fluorescence Correlation Spectroscopy Towards Extended Concentration Range and Enhanced Sensitivity

2:00 PM Sobhan Sen, Jawaharlal Nehru University, India
Probing Ligand Binding to DNA G-Quadruplexes with Fluorescence and MD Simulation

2:25 PM Anna-Karin Gustavsson, Rice University, USA
Multiplexed Whole-Cell Single-Molecule Super-Resolution Microscopy in 3D

2:50 PM Suliana Manley, Ecole Polytechnique Federale de Lausanne, USA
Smart Microscopy for Adaptive Imaging

3:15 PM Subgroup Business Meeting & Break

3:35 PM Flash Talks:

- Rutuparna Kulkarni
  Characterization Of Escherichia Coli Biofilms Using Single Molecule Spectroscopy And Microscopy Techniques
- Fabio Morella
  Dissecting The Tata Box Sequence Using Smfret
- Nicolò Incardona
  Multimodal Characterization Of Cells Through Scanning Mueller Matrix And Fluorescence Microscopy.
- Klaus Yserentant
  De Novo Designed Rhodamine Binders For Advanced Fluorescence Microscopy
- Satya Yadav
  Linking Rna Sequence To Structure And Dynamics Through High-Throughput Single-Molecule Fret And Sequencing (Smfas)
- Lukas Whaley-Mayda
  Towards Ultra-Resolution Single-Molecule Fret
- Sophie Fountain
  Expanding The Reach Of Fret: Quantitative Quenching For Probing Dna Allostery And Sub-3 Nm Distance Determination

4:00 PM **Young Fluorescence Investigator Award Winner Talk:** Luciano Masullo
Ångström-resolution imaging of cell-surface glycans.

4:05 PM **Gregorio Weber Award Winner Talk:** Jörg Enderlein
Fluorescence-Lifetime, Image-Scanning Single-Molecule Localization Microscopy.

4:10 PM **Student Award in Biological Fluorescence:** John Kohler
Monitoring Viral Assembly Across Scales With Quantitative Fluorescence Fluctuation Spectroscopy And 3d Imaging

4:25 PM Guest Speaker: Nikos Hatzakis
From photons to biological principles for tailoring the delivery of nucleic acid pharmaceuticals by 4D microscopy and deep learning accelerated analysis

4:45 PM Guest Speaker Thorsten Wohland
The application of fluorescence correlation spectroscopy in developmental biology

5:05 PM Erwin J.G. Peterman, Vrije Universiteit, Netherlands
Combining Fluorescence Microscopy with Optical Tweezers to Shine Light on DNA and Chrosomes

5:25 PM Closing Remarks

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