Biophysical Society 69th Annual Meeting

Biological Fluorescence Subgroup Symposium

Saturday February 15, 2025

Los Angeles, California

Subgroup Chair: Claus Seidel, Heinrich Heine University Düsseldorf, Germany
Symposium Time: 8:30 AM-12:30 PM PST
Subgroup Business Meeting: 10:15 AM PST
Symposium Room: 515A

8:30 AM Opening Remarks

8:35 AM Marcia Levitus, Arizona State University, USA 2-amino Purine as a Probe of DNA Flexibility in Damaged DNA

9:00 AM **Claudiu Gradinaru**, University of Toronto, Canada Using Single-Molecule Fluorescence and Modelling to Structurally Define a Disordered Protein Complex

9:25 AM Luca Lanzanò, University of Catania, Italy Application of Advanced Fluorescence Spectroscopy Methods on Commercial Microscopes

9:50 AM **Eitan Lerner**, The Hebrew University of Jerusalem, Israel *mCherry and its Fluorescence Under Crowding/Bio-Condensation Conditions*

10:15 AM Break/Business Meeting

10:35 PM Flash Talks: 7 talks of 3 minutes eachGloria W. Lau, University of Illinois at Urbana-Champaign, USAUnique Spatial Dependence Of Ampar Subunit Clusters Revealed Through Qpaint

Alberto Diaspro, IIT- Universita di Genoa, Italy The Artificial Microscope For Cellular And Molecular Bioimaging

Michael R. Stoneman, University of Wisconsin- Milwaukee, USA Advancing GPCR Oligomerization Studies Through Ifret: A Comprehensive Approach

Leonel S. Malacrida, Institut Pasteur Montevideo & Universidad de la República, Uruguay

Phasorpy: An Open-Source Python Library For The Analysis Of Fluorescence Lifetime And Hyperspectral Images Using The Phasor Approach

Marko Vendelin, Tallinn University of Technology, Estonia From Photons To Posteriors: Bayesian Single-Molecule Analysis With Fitsa

John Kohler, University of Minnesota, USA Imaging Of Human Retrovirus Assembly In 3D With Deep Learning

Maxwell Martin, St. Jude Children's Research Hospital, USA Self-Healing Fluorophores Unveil Protein Induced Photobleaching Mechanisms

11:00 AM **Jerker Widengren**, Royal Institute of Technology (KTH), Sweden Near-Infrared MINFLUX Imaging Enabled by Suppression of Fluorophore Blinking

11:25 AM Student Awardee in Biological Fluorescence Talk: **Ashish Joshi**, University of Texas Southwestern Medical Center, USA *Prying into Biomolecular Condensates using single-molecule FRET and homoFRET*

11:40 AM Young Fluorescence Investigator Awardee Talk: Lydia Kisley, Case Western Reserve University, USA Super-resolution Fluorescence Imaging of Extracellular Environments

12:00 PM Gregorio Weber Awardee for Excellence in Fluorescence Theory and Applications Talk: Luke D. Lavis, Janelia Research Campus Ashburn, USA *Teaching Old Dyes New Tricks*

12:25 PM Concluding Remarks

6:00 PM - 10 PM Subgroup Dinner at Bombay Beach

Also:

February 16, 1:00 AM-2:45 AM Lunch of the FRET community at 33 Taps Sports Bar

The Biological Fluorescence Subgroup is grateful for support from the following sponsors of the subgroup session:





The Biological Fluorescence Subgroup is also grateful for support for the Student Award in Biological Fluorescence



The Biological Fluorescence Subgroup is also grateful for support for the Young Fluorescence Investigator Award



The Biological Fluorescence Subgroup is also grateful for support for the Gregorio Weber Award for Excellence in Fluorescence Theory and Applications

