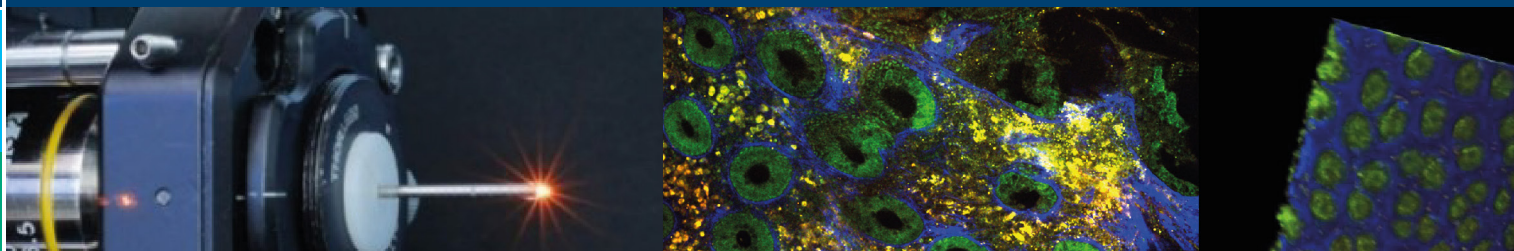


33rd International SAOT Workshop (online)

Modern Biophotonics
February 16-17, 2021



Workshop Chair

Prof. Dr. Dr. Oliver Friedrich

Local Organizing Committee

Lucas Kreiß, M.Sc.

Annika Kraftzyk, M.A.

Dr. Johannes Knorr

Scope

Biophotonics is the general term for the application of optical technologies to the fields of biological and medical sciences. In this vast field of research, the interactions of light with biological samples are used for diagnosis or treatment of diseases. Hereby, several different optical contrast mechanisms, such as scattering, absorption, fluorescence, interference or linear and non-linear polarization properties can be exploited. Conventional optical technologies that are based on fluorescence-labelled immunostaining have already become the gold standard in their respective fields. More advanced technologies however, enable imaging of structures below the classical resolution limit, omit the need for staining or tissue preparation or include automated diagnosis based on artificial intelligence.

Miscellaneous

The workshop will take place online via Zoom on February 16-17, 2021.

All SAOT members- PIs, AIs, Ambassadors, mentors, and registered doctoral candidates are invited to attend free of charge. MAOT students are also welcome to join.

Please inform all of your colleagues about this event.

Please note that you need to register for the event. Registration is open now and closes on February 7, 2021. Please use the online form:

https://www.saot.fau.de/events_saot/upcoming-events/33rd_workshop/

If you need any further assistance, please do not hesitate to contact us:

saot-administration@fau.de

Confirmed Speakers

Prof. Dr. Balpreet Singh Ahluwalia (Arctic University of Norway (UiT), Tromsø, Norway)

“On-chip nanoscopy”

Dr. Florian Ströhl (Arctic University of Norway (UiT), Tromsø, Norway)

“Structured Illumination Microscopy”

Dr. Dilip Prasad (Arctic University of Norway (UiT), Tromsø, Norway)

“Machine Learning in microscopy”

Dr. Roarke Horstmeyer (Department of Biomedical Engineering, Duke University, USA)

“Fourier Pythography”

Prof. Dr. Jürgen Popp (Leibniz Institute of Photonic Technology, Jena)

Prof. Dr. Oliver Hayden (TUM, München)

Prof. Dr. Dr. Oliver Friedrich (FAU, Medical Biotechnology)

“Second Harmonic Generation and Structure-Function Relationships in Muscle”

More details and a detailed program is as about to follow soon.

Contact:

saot-administration@fau.de