

Virtual Workshop on Fluorescence Correlation Spectroscopy (FCS) Dedicated to Prof. Rudolf Rigler on the Occasion of his 85th Birthday



Date: 2021-09-13 | 9.00–18.00

Place: Zoom, Meeting ID: 677 0138 7776; Passcode: 619450

<https://ki-se.zoom.us/j/67701387776?pwd=ajlUMlIXSmx2VFNmL3hMKzllVy9Vdz09>

- 9:00 – 9:15 Welcome**
- 9:15 – 10:00 Jerker Widengren, KTH Royal Institute of Technology, Stockholm, Sweden**
FCS – fundamental biomolecular studies and towards clinical diagnostics
- 10:00 – 10:45 Klaus Weisshart, ZEISS Research Microscopy Solutions**
Zeiss ConfoCor series
- 10:45 – 11:15 Masataka Kinjo, Hokkaido University, Sapporo, Japan**
Cellular dynamics of biomolecules
- 11:15 – 12:00 Jean-Pierre Changeux, Pasteur Institute, Paris, France**
The allosteric transition of pentameric receptor channels at the atomic level: consequences for the design of allosteric modulators
- 12:00 – 13:00 Lunch break**
- 13:00 – 13:45 Stefan Wennmalm, SciLifeLab, Stockholm, Sweden**
Inverse Fluorescence Correlation Spectroscopy (iFCS) and FRET-FCS
- 13:45 – 14:30 Petra Schwille, Max Planck Institute of Biochemistry (MPIB), Munich, Germany**
Dual-Colour Fluorescence Cross-Correlation Spectroscopy (FCCS)
- 14:30 – 15:15 Christian Eggeling, Friedrich Schiller University Jena, Jena, Germany & University of Oxford, UK**
A two-decades FCS story: From photophysics over high-throughput screening to super-resolved STED-FCS
- 15:15 – 15:45 Erdinc Sezgin, SciLifeLab, Stockholm, Sweden**
Measuring nanoscale properties of cellular membranes with advanced FCS
- 15:45 – 16:30 Thorsten Wohland, National University of Singapore, Singapore**
Extending FCS to imaging – Single Plane Illumination Fluorescence Correlation Spectroscopy (SPIM-FCS)
- 16:30 – 17:00 Vladana Vukojević, Karolinska Institute, Stockholm, Sweden**
Extending FCS to imaging – Quantitative scanning-free confocal imaging of fast dynamic processes by massively parallel FCS
- 17:00 – 17:45 Elliot Elson, Washington University in St. Louis, Missouri, USA**
Fluorescence Correlation Spectroscopy: Past, Present, Future
- 17:45 – 18:00 Discussion and personal reflections**

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