


### Thursday 15th of September 2022:

11:30 – 12:30	Lunch	
12:30 – 12:40	Opening remarks	
<b>Session 1, Chair: Jerker Widengren</b>		
12:40 – 13:15	Thorsten Wohland	Spatial SPIM-FCCS applications in developmental biology
13:15 – 13:35	Daniel Aik	Real-time Imaging FCS: microscope alignment and long-term observation
13:35 – 14:10	Vladana Vukojević	Quantitative imaging of the cellular dynamics of molecules using massively parallel Fluorescence Correlation Spectroscopy (mpFCS)
14:10 – 14:45	Akira Kitamura	Intracellular structure and function of chaperone RNA
☕ Coffee break		
<b>Session 2, Chair: Chinmaya Venugopal Srambickal</b>		
15:00 – 15:35	Jong-Chan Lee	Progress in stimulated emission depletion nanoscopy
15:35 – 15:55	Sejoo Jeong	Homebuilt confocal scanning microscope reveals diffusion coefficient of lipid nanodomain on the plasma membrane
15:55 – 16:15	Eunha Gwak	Molecular grammar of UBQLN2 Liquid-Liquid Phase Separation in cell: hydrophobicity as the main molecular driving force of UBQLN2 LLPS
16:15 – 16:35	Jinkwang Kim	Phase separation of GIGANTEA modulates ambient temperature-dependent flowering in Arabidopsis thaliana
☕ Coffee break		
<b>Session 3, Chair: Jong-Chan Lee</b>		
16:45 – 17:20	Jerker Widengren	Transient state (TRAST) spectroscopy and imaging of cellular and molecular states and conditions - exploiting the sensing side of fluorophore blinking kinetics
17:20 – 17:40	Joachim Piguet	TRAST imaging of intermittent lipid-receptor interaction in live cell membrane
17:40 – 18:00	Hanie Esmaeeli	Studies of dark, transient state transitions in near-IR cyanine fluorophores
18:00 – 18:20	Baris Demirbay	Transient state (TRAST) flow cytometry for monitoring trans-cis isomerization kinetics of cyanine dye and dye-attached SUVs
19:00 –	Dinner	

## Friday 16th of September 2022:

Session 4, Chair: Niusha Bagheri		
08:30 – 09:05	Jicun Ren	In Vivo Study on Molecular Interaction in Living Cell by Fluorescence Correlation Spectroscopy
09:05 – 09:40	Chao-qing Dong	In situ quantitative assay in living cells with fluctuation correlation spectroscopy
09:40 – 10:00	Yao-qi Liu	Deubiquitination detection of P53 protein in living cells based on fluorescence cross correlation spectroscopy
10:00 – 10:20	Jian Liu	Study of phase separation in living cells by single molecule fluorescence correlation spectroscopy
10:20 – 10:40	Xin-wei Lu	Probing protein-protein interaction in living cells using fluorescence triple correlation spectroscopy
10:40 – 11:00	Hao-han Song	In Vivo Measuring Autophagic Flux in Living Cells by Fluorescence Correlation Spectroscopy
 Coffee break		
Session 5, Chair: Thorsten Wohland		
11:15 – 11:35	Mariam Sanaee	Loading characterization of exosome-like nanovesicles: Fluorescence Burst Analysis
11:35 – 11:55	Haichun Liu	Excitation pulse duration response of upconversion nanoparticles and its applications
11:55 – 12:15	Niusha Bagheri	Modulation and phase-sensitive detection for upconversion emission
12:15 – 12:35	Chinmaya Venugopal Srambickal	Fast, streamlined fluorescence nanoscopy for protein distribution studies in platelets co-incubated with cancer cells
12:35 – 12:45	Closing remarks	
13:00 –	Lunch	

Follow the workshop also via Zoom at <https://kth-se.zoom.us/j/69114457434>