

DNA Nanotechnology Mitteldeutschland Workshop

Thursday, May 12th, 2022, 12:00-16:30

Leibniz IPHT

Albert-Einstein-Straße 9

07745 Jena

Link: <https://uni-jena-de.zoom.us/j/68382540949>

Meeting ID: 683 8254 0949

Meeting Kenncode: 909120

Schedule overview

12:00-12:30 – Arrival & get together

12:30-12:35 – Welcoming

12:35-14:20 – Session 1

14:20-15:00 – Break

15:00-16:30 – Session 2

List of presentations

12:30 – 12:35 **Welcoming**

12:35 – 14:20 **SESSION 1**

12:35 – 12:50 Laura Maria Palacios Narvaez (Leibniz IPHT)
Sensitivity investigation of different nanoparticle configurations to be used as biosensors

12:50 – 13:05 Busra Cincin (Leibniz IPHT)
Bioconjugated Plasmonic Nanoparticles on DNA-Origami Framework Abstract

13:05 – 13:20 Pei-ying Lin (National Taiwan University)
Magnetic nanoparticle-assisted modification-free Surface Plasmon Resonance biosensor for early detection of Cytomegalovirus miRNA

13:20 – 13:35 Yu-ling Wu (National Taiwan University)
Pre-eclampsia-associated microRNA Based on Duplex Specific Nuclease and Rolling Circle Amplification

13:35 – 13:50 Johannes Parikka (University of Jyväskylä)
Tube-shaped assemblies of DNA-origami-lattices in solution

13:50 – 14:05 Kosti Tapio (University of Jyväskylä)
Crafting metamaterial surface using DNA origami

14:05: - 14:20 Yu-Hsuan Peng (Leibniz IPF/ TU Dresden)
DNA-Crosslinked Hydrogels as Adaptive and Programmable Matrices for Cell Culture

14:20 – 15:00	Break
15:00 – 16:40	SESSION 2
15:00 - 15:15	Sarah Speed, Azra Atabay & Krishna Gupta (Leibniz IPF/ TU Dresden) Building Olympic Gels with DNA Rings
15:15 - 15:30	Janine Olszewski (University of Potsdam) DNA origami platforms to probe radiation damage in fluorinated DNA
15:30 - 15:45	Anisha Pathak (University of Potsdam) DNA origami assisted gold dimers as SERS substrates on optical fiber tips for direct miRNA detection using hairpin probes
15:45 - 16:00	Giampaolo Zuccheri (University of Bologna) Tampering with microglia-mediated neuroinflammation by means of DNA nanostructures
16:00 – 16:15	Marcel Hanke (University of Paderborn) Direct Visualization of the Drug Loading of Single DNA Origami Nanostructures by AFM-IR Nanospectroscopy
16:15 – 16:30	Petteri Piskunen (Aalto University) Fabrication of optically active substrates using biotemplated lithography of inorganic nanostructures