

POSTER PRESENTATIONS

- 01 Improving Cellular Internalization of DNA Origami via Lipid Nanoparticle Encapsulation // Johan Farfan (Santiago de Compostella)

- 02 Fabrication of conductive nanowires using DNA-assisted lithography // Sima Hosseini (Leipzig)

- 03 Ion-Dependent Mechanical Behavior of Ligated DNA Origami 6-Helix-Bundles // Emilia Juricke (Paderborn)

- 04 Towards metasurfaces by DNA-assisted lithography // Heini Järvinen (Jyväskylä)

- 05 Towards single-crystalline DNA origami lattices on silicon wafers for bottom-up nanofabrication // Thiwangi Rajapaksh (Jyväskylä)

- 06 pH-sensitive DNA zippers for enhanced nanopipette biosensors // Olavi Reinsalu (Tartu)

- 07 Large-scale DNA origami arrays for combating antimicrobial resistance // Yomna Gabr (Cambridge)

- 08 Chirality Transfer by Helical Cyanuric Acid-Polyadenine Fibers for Optical and Catalytic Applications // Xinghua Chen (Jerusalem)

- 09 Semi-Automatic Approach to Self-Assembly DNA Into Stacked Wireframe Origami Structures // Alexandru Bologa (Bucharest)

- 10 Rational design of gold-palladium core-shell nanostructures for LSPR based optical biosensing // Olesia Petrova (Jena)

- 11 Development of an LED-Based Multispectral Imaging System // Baihui Li (Jena)

- 12 Molecular detection using LFA technology // Sanskruti Bhoir (Bologna)

- 13 Benchmarking LED-based localized surface plasmon resonance spectrometry utilizing DNA-based recognition elements for detecting antimicrobial resistance genes // Florian Seier (Jena)

LOCATIONS

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www.biophotonics4future.com/dna2026/



www.leibniz-ipht.de

DEL.CORAZÓN

Venue Get-Together on Thursday May 7, 2026

Markt 2, 07743 Jena

www.delcorazon.de

ZUR NOLL

Restaurant and hotel

Oberlauengasse 19, 07743 Jena

www.zurnoll.de

DNA²⁰²⁶ Nanotechnology



DNA NANOTECHNOLOGY 2026

MAY 7 – MAY 9, 2026

Leibniz IPHT // Campus Beutenberg // Jena

www.leibniz-ipht.de

supported by

PROGRAM

THURSDAY, MAY 7, 2026

Leibniz IPHT, Campus Beutenberg

Bus no. 10, 11, 12

12:30 Satellite-Workshop “DNA Mitteldeutschland” free to join // Get-together

(lunch suggestion: Foodtruck at Beutenberg
Campus: <https://www.foodtruck-thuringen.de/>)

13:00 Presentations

17:00 END

Bus to downtown + 10 min walk, or appr. 40 min walk

Restaurant Del.Corazón, Downtown

(at historical market square)

18:30 Get-Together

19:00 DINNER

FRIDAY, MAY 8, 2026

Leibniz IPHT, Campus Beutenberg

Bus no. 10, 11, 12

8:30 Registration

9:00 Opening & Introduction // Wolfgang Fritzsche

9:05 Session 1 // Wolfgang Fritzsche
DNA-Based Constitutional Dynamic Networks and Transient Dissipative Reaction Circuits // Itamar Willner (Jerusalem)

Fundamental studies of SELEX: from thermodynamics to kinetics // Juewen Liu (Waterloo)

DNA-programmed assembly of bispecific agents targeting receptor pairs on cancer cells // Oliver Seitz (Berlin)

10:20 COFFEE BREAK

11:00 Session 2 // Itamar Willner
Electroactuated DNA Origami Nanolevers Enable Molecule Friction Sensing of Protein Conformational Changes // Ulrich Rant (Meinsberg)

Benchmarking the performance of a Peptide and DNA functionalized gold nanoparticle array for nanoplastic sensing // Guilherme Lopes (Jena)

Nucleic Acid-Directed Plasmonic Nanoparticle Biosensors: a review with a focus on food safety // Enrico Ferrari (Lincoln)

Poster pitch talks // Olesia Petrova

LUNCH & POSTER SESSION

14:00 Session 3 // Enrico Ferrari
UV Laser Crosslinking Reveals Expanded DNA-CTCF Interaction Landscape // Tino Schenk (Jena)

Photochemistry in the Origins of Life // Corinna Kufner (Jena)

Designer DNA via MOPED // Andrew Pike (Newscastle)

15:15 COFFEE BREAK

15:45 Session 3a // Juewen Liu
Down-and-up: Towards self-assembled electronics and optics by combining DNA bottom-up assembly with top-down microfabrication // Jussi Toppari (Jyväskylä)

Charge Transport in DNA: From Fundamental Insights to Ultra-Sensitive Detection // Danny Porath (Jerusalem)

3D Biofabricated DNA-Carbon Nanotube Nanodevices for Hybrid Nanoelectronics // Iman Elbalasy (Leipzig)

17:00 Excursion // Hike to Ernst Haeckel Monument

19:00 POSTER & BEER (& BARBECUE)

SATURDAY, MAY 9, 2026

Leibniz IPHT, Campus Beutenberg

Bus 10 leaves 8:42 a. m. downtown

9:00 Session 4 // Andrew Pike
Fluorescent DNA templated metal clusters - Identification of single emitters // Uwe Pliquet (Heiligenstadt)

DNA origami based nanoantenna for enhanced fluorescence detection of microRNA // Milagros Montemurro (Fribourg)

Modulating Structural Permeability in DNA origami Nanocarriers // Merle Scherf (Leipzig)

10:15 COFFEE BREAK

10:45 Session 5 // Jussi Toppari
Structure-dependent nuclease-DNA origami interactions control limited cleavage of folded DNA nanostructures // Tanveer Ahmed (Leeds)

Stacked Wireframe DNA Origami: Design and Synthesis of Multi-Level Nanostructures // Eugen Czeizler (Bucharest)

DNA Origami for multi-functional optomechanical and plasmonic assemblies // David Daniel Ruiz Arce (Prague)

12:00 END & LUNCH