POSTER PRESENTATIONS

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

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

LEIBNIZ INSTITUTE OF PHOTONIC TECHNOLOGY

Nanobiophotonics Department

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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

Leibniz ipht
LEIBNIZ INSTITUTE of PHOTONIC TECHNOLOGY

DNA 2026 Nanotechnology

DNA NANOTECHNOLOGY 2026

MAY 7 – MAY 9, 2026

Leibniz IPHT // Campus Beutenberg // Jena

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LEIBNIZ HEALTH TECHNOLOGIES

Leibniz Association

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-thueringen.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 Pliquett (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