DEDNAED

Uniting disciplines: How DeDNAed combines physics and biology for novel biosensor development

Final dissemination webinar 17 July 2024 09:00 - 11:00 CEST

Introduction to DeDNAed: Cluster decorated recognition elements on DNA origami for enhanced Raman spectroscopic detection methods
Danny Reuter, Technische Universität Chemnitz

DNA origami as a tool for precise positioning of sensing elements towards quantitative SERS measurements
Andreas Heerwig, Kurt-Schwabe-Institut für Mess- und Sensortechnik Meinsberg e.V. (KSI Meinsberg)

ssDNA aptamers as biorecognition elements for DNA origami biosensor application
Itziar Galarreta-Rodriguez, Center for Cooperative Research in Biomaterials (CIC biomaGUNE), Basque Research and Technology Alliance (BRTA)

Antibody-protected bimetallic nanoclusters as biorecognition and transduction element in DNA-origami based biosensor
Verónica Mora Sanz, Fundación TECNALIA Research & Innovation

Characterising binding affinity of bio-recognition elements and their targets using switchSENSE technology
Saloni Agarwal, University of Potsdam

5-MIN BREAK

How Safe(-and-Sustainable)-by-Design can support innovations in the biosensor field
Julia Voglhuber-Höller, BioNanoNet Forschungsgesellschaft mbH

Spatially resolved integration of heterogeneous DNA origami nanosystems on nanostructured surfaces for SERS
Julia Hann, Technische Universität Chemnitz

SERS detection of benzophenone using DNA origami hybrids
Aicha Azziz, IMMM, University of Le Mans

Q&A

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