



High-Throughput Single-Molecule Analysis of DNA-Protein Interactions using DNA Curtains

TechTalk hosted by IMB's Core Facilities

Tuesday Oct. 14th, 2025

15:00h

IMB Seminar Room, 2nd floor
Ackermannweg 4, 55128 Mainz

Kaffee und Kuchen served after talk on balcony



Speaker:

Ilias Zarguit, MSc.
1NA – Business Development Scientist

DNA curtains are a high-throughput single-molecule approach that enables simultaneous visualization of thousands of DNA-protein interactions, revealing statistically relevant single-molecule level insights. DNA molecules are aligned on nanofabricated barriers within a microfluidics flow cell, allowing real-time observation of dynamic processes such as DNA replication, and repair. 1NA's DNA curtains flow cell addresses key barriers of implementation by applying semiconductor manufacturing practices to the nanofabrication of the barriers. Applications include quantifying DNA-protein kinetics, mapping interaction heterogeneity, or screening small molecule interactions.

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www.1na.nl | Leiden, The Netherlands | hello@1na.nl

REGISTRATION

