



## Rapid construction of genetic machines: DNA-based nanorobots in biomedicine

Speaker: Ido Bachelet



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### Summary

Dr. Bachelet earned his Ph.D. from the Hebrew University in Jerusalem, where he performed research under the supervision of Prof. Francesca Levi-Schaffer. Was a postdoctoral fellow in engineering at M.I.T. and later at Harvard University in immunomics and DNA nanotechnology at the George Church lab. Formerly an assistant professor in the Faculty of Life Sciences and the Nano-Center at Bar Ilan University, Israel, he has gone independent in 2015. Bachelet is the founder of several companies, such as the computer vision company Sight Diagnostics. He is known for his contribution to the fields of DNA origami, Nanotechnology, and Nanorobotics. His well cited paper "A logic-gated nanorobot for targeted transport of molecular payloads", which deals with nano robots being able to kill cancer cells, created an important interface between the field of DNA origami and medicine.

Ido is a member of the *Nanosmell* H2020 project in which IIS-FJD participates.

Relevant publications:

A logic-gated nanorobot for targeted transport of molecular payloads *Science*. 2012 Feb 17;335(6070):831-4.

Universal computing by DNA origami robots in a living animal. *Nat Nanotechnol*. 2014 May;9(5):353-7.

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