



The Desktop Fab Company

ORGANIZATIONS AND TEAM

ANDREY IVANKIN, PHD

co-founder and chief technology officer / lead investigator

JARED MAGOLINE

applications scientist

Northwestern |  INTERNATIONAL INSTITUTE FOR
NANOTECHNOLOGY

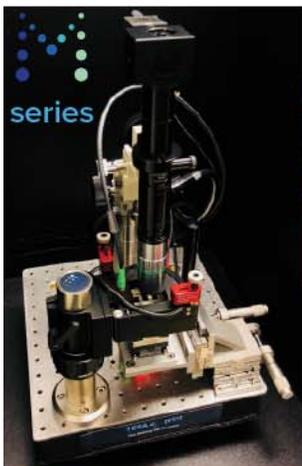
PROFESSOR CHAD MIRKIN

Northwestern |  McCORMICK SCHOOL OF
ENGINEERING

PROFESSOR VINAYAK DRAVID

Data encoding uniquely enabled by the Company's core cantilever-free scanning probe lithography technology.

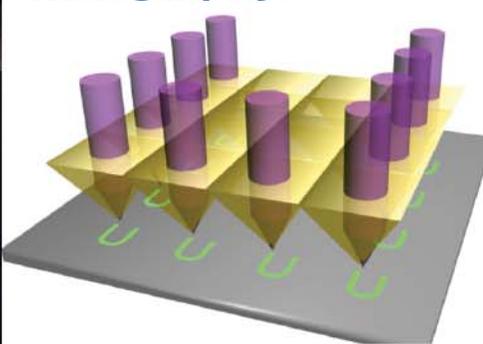
TERA-Fab™



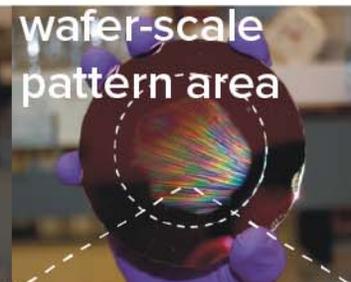
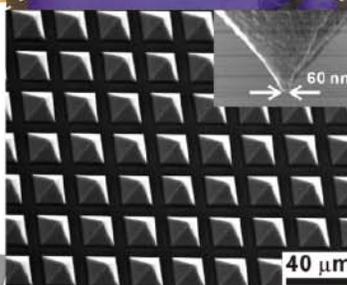
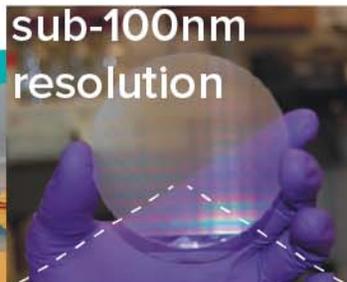
polymer pen lithography



beam pen lithography



broad materials compatibility



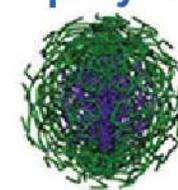
DNA



Peptides & Proteins



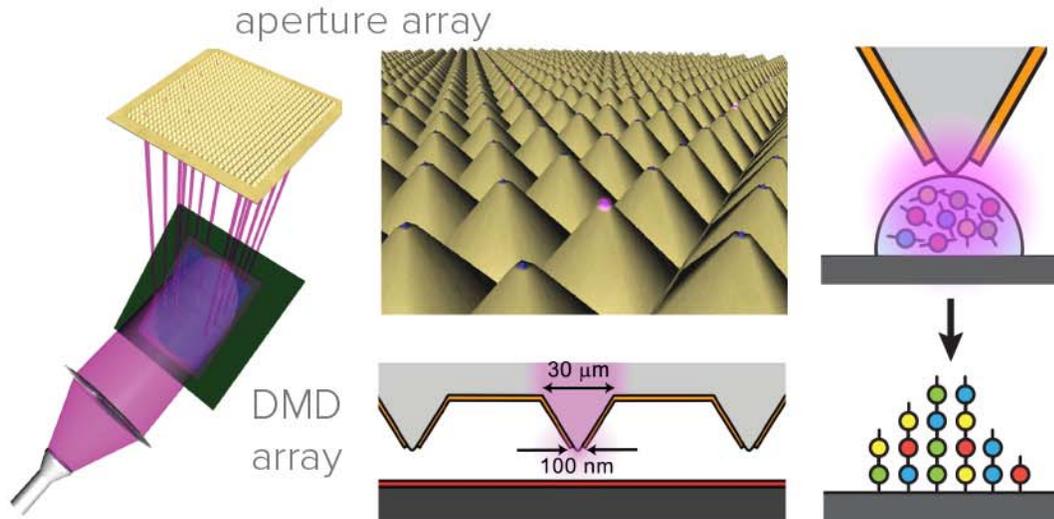
Block Copolymer



AND MORE

BEAM PEN LITHOGRAPHY

MOLECULAR DATA WRITE TECHNOLOGY



1000x higher density
of molecular data storage per unit area.

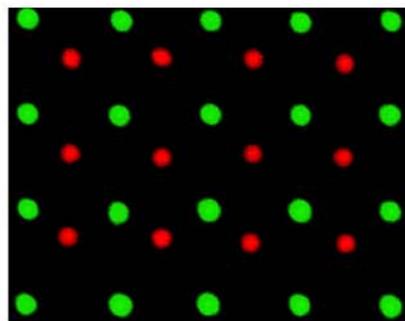
1000x lower cost
of encoding equal amount of data.

equal or faster speed

desktop format

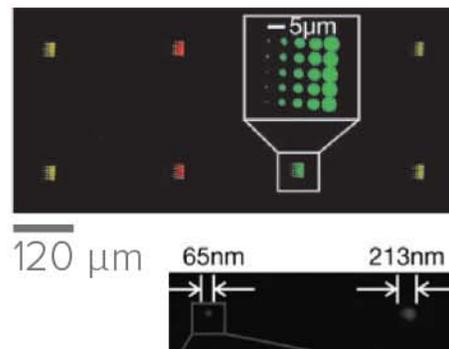
as compared to photolithography, inkjet printing, and other competing synthesis strategies

DNA arrays



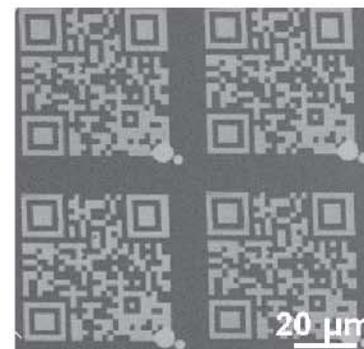
4 μm

protein arrays



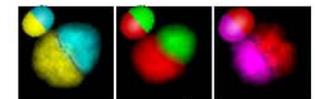
120 μm

molecular nanobarcodes

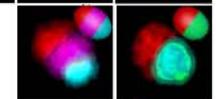


polyelemental compositions

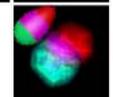
bi-metal



tri-metal



tetra-metal



Co

Ni

Au

Ag

Cu



The Desktop Fab Company

SPECIAL CAPABILITIES AND JOINT COLLABORATIONS
WE ARE SEEKING

bioinformatics

expertise in computational encoding data into an array of DNA strands of pre-defined length in such a way as to minimize challenges and sources of error during the assembly and readout.

data decoding

expertise in/development of algorithms for decoding information from a DNA-based molecular data storage device with attomolar quantities of unique DNAs to validate the data encoding power of the technology.



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CONTACT INFORMATION

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