



FEDALOC - *Flow Efficient DNA Analyser*

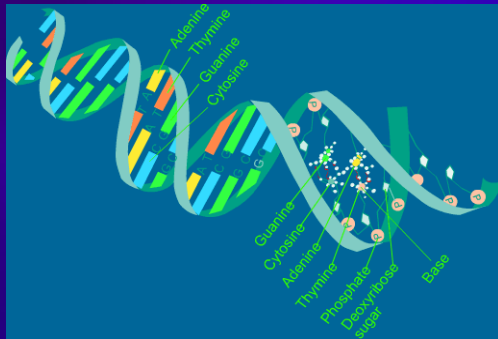
(IPPT contribution)

Micro- and Nano- Fluidics Laboratory
Department of Mechanics and Physics of Fluids
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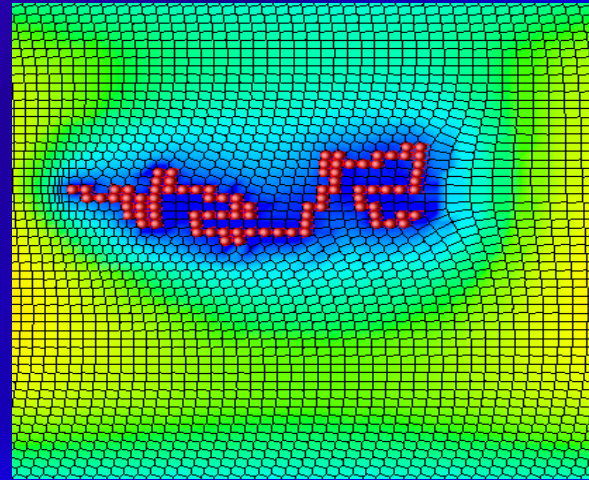
<http://fluid.ippt.gov.pl/nano>

ZMiFP

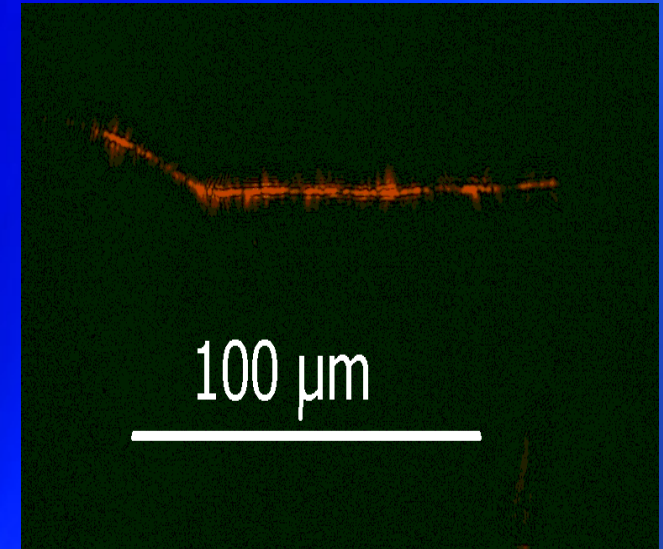
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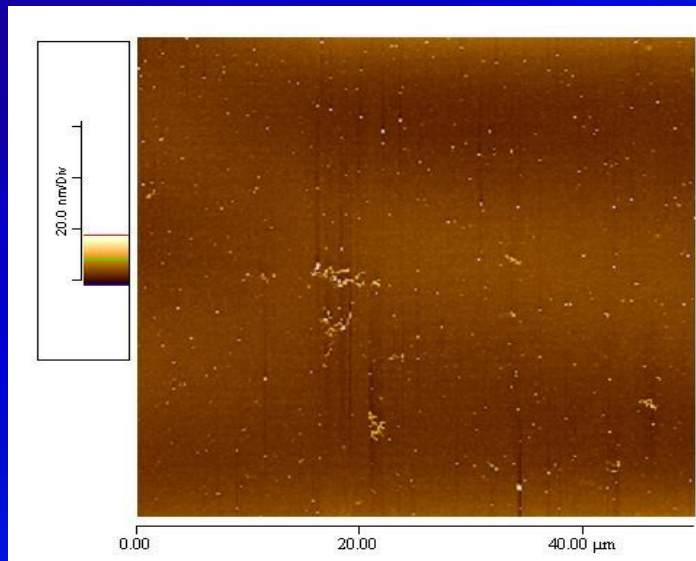
Microscopic structure of DNA



Mesoscopic DNA simulations



DNA Fluid Interaction



nanoscale DNA manipulation

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(IPPT contribution)

Modeling:

- molecular and meso-scale modeling
- sequencing modeling

Experiments:

- DNA detection;
- DNA on chip manipulation,
- fluorescent marking and detection system
- μ -fluidic systems optimization and design

- WP 2
- WP 4
- WP 6