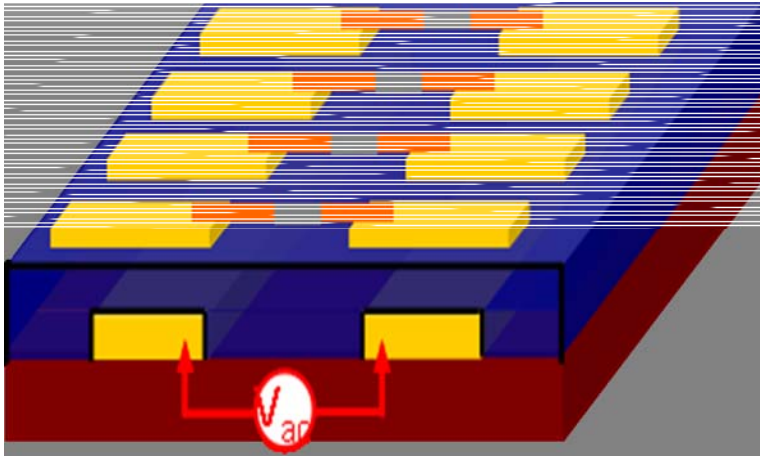


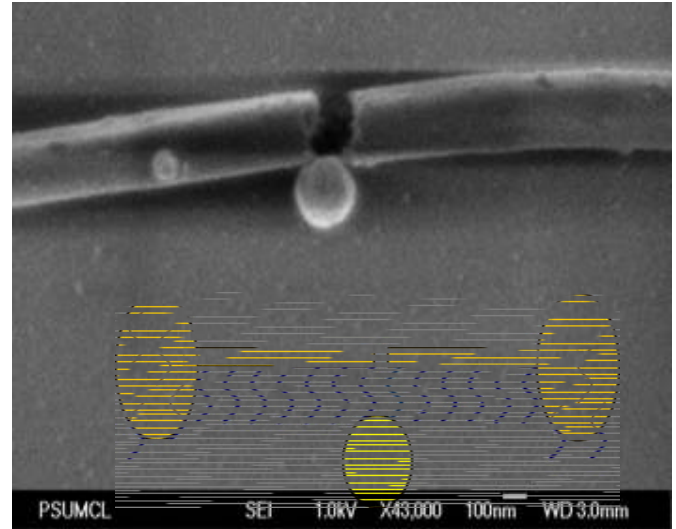
Bioengineering Applications of Nanotechnology

Assist. Prof. Ramazan KIZIL, Chemical Engineering Department, Istanbul Technical University, Istanbul-Turkey
 Istanbul Technical & Montana State Universities Bioengineering Dual Degree Program, kizilr@itu.edu.tr

On-chip Electrical Detection of DNA and Biomolecules across Nanogap Electrode Arrays

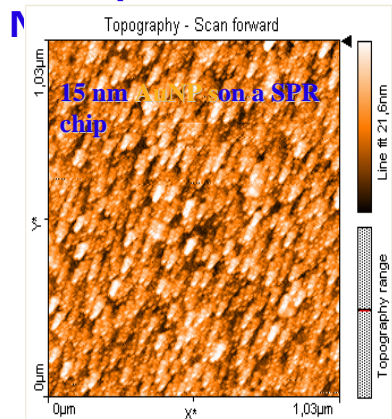


Electrofluidic Alignment of AuAgAu Nanowires to Fabricate a Nanogap Electrode Array

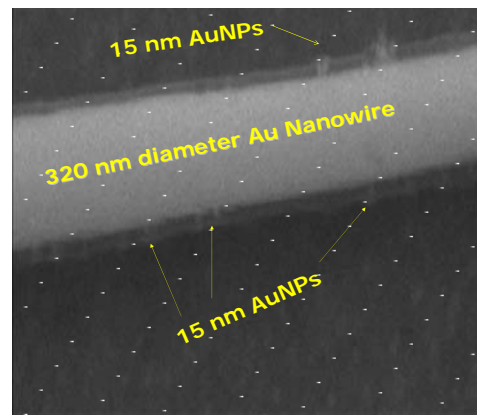


A Nanogap Electrode for Biosensing

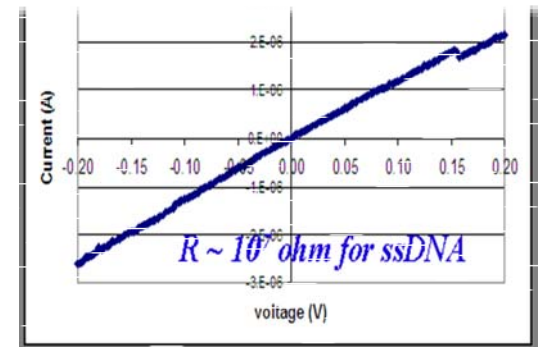
Nanoparticle Assembly on Surfaces for



Optical (SPR) Sensing Platform Prepared by AuNP conjugates



Biotin-Streptavidin based Flocculation of AuNPs on Nanowire Surface



Electrical Detection of ssDNA via I-V or impedance measurements