



# Bio Nano Robo Seminars

**Thursday, September 4, 2008, 17h-18h**

Room Dw601, Block D, 6<sup>th</sup> floor  
IIS-University of Tokyo, Komaba 4-6-1,  
Meguro-ku, Tokyo 153-8505.

## Dr. Janos VOROS

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**Nanotechnology based approaches to solve biological problems: Self-assembling microarray, electrically controlled cell growth, nanoneedle and others**

### Abstract

Micro- and nanotechnology brought new exciting possibilities in life sciences. In this talk, examples of such novel approaches will be presented:

Membrane proteins are fragile and difficult to handle, but also highly important drug targets. The combination of microfabrication, and DNA-assisted self-assembly enabled the arraying of functional biomembranes opening the possibility for their high-throughput screening.

Manipulating individual cells is not only interesting for fundamental biological studies but also important for biomedical applications. The use of electrical currents to control cell growth and an AFM-based nanoinjection system will be presented as examples.

## FREE ENTRANCE

**a banquet will follow**



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