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***Bio-electronic Interfaces for
Direct Electronic Sensing***

Abstract:

Biotechnology and microelectronics share a common idea of performing many tasks in parallel. Yet, the direct integration of biological and microelectronics has been hampered by a number of problems, many of which revolve around fundamental differences in hard vs. soft materials. We have been investigating new ways of linking biological molecules to surfaces in order to achieve direct electrical readout of biological binding processes such as DNA hybridization and protein binding. This talk will discuss some of this work on macroscopic and nanoscale systems.

**Tuesday, October 11th, 2005
4:00 p.m.**

Genetics/Biotechnology Center Auditorium
425 Henry Mall