



BILKENT UNIVERSITY

unam - INSTITUTE of MATERIALS SCIENCE & NANOTECHNOLOGY

FACULTY OF SCIENCE

**MATERIALS SCIENCE and NANOTECHNOLOGY
GRADUATE PROGRAM SEMINAR**

“Noble Metal Nanoparticles in Complex Biological Systems ”

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Department of Genetics and Bioengineering

Noble metal nanoparticles (NPs) such as gold and silver are extensively used in many areas of science and technology. Although they are known for long time, the renewed interest for their utility is mostly due to their plasmonic properties. As nanoscale plasmonic structures, they can be used in sensing, diagnosis, delivery, therapeutic and cellular and biomedical imaging applications. In our laboratories, we explore many aspects of the use of noble metal NPs. In this presentation, a snapshot of our effort to understand the nature of the interactions of NPs and nanostructures in complex biological systems such as living cells, tissues and microorganisms and the utility of the acquired information in several applications are demonstrated. The use of forces governing the biological world to control the behaviors of nanostructures as model systems is also presented.

Date : November 5, 2009 (Thursday)

Time : 15:40

Place : Faculty of Science Building, A Block, Seminar Room (SA 240)

Tea and cookies will be served after the seminar