

NANO-BIO SEMINAR

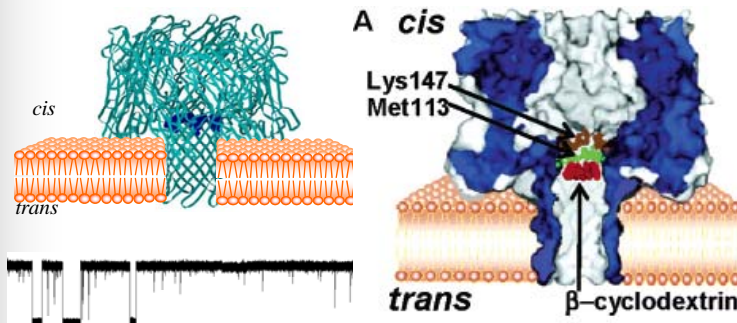
Stochastic Sensing in an Engineered Nanopore

Dr. Richard X. Guan

Rady Room in Nedderman Hall
Monday, Sep 29, 2008 at 2.30 pm

Abstract: Stochastic sensing can successfully detect analytes at the single-molecule level by monitoring the ionic current driven through a single nanopore. Ion channel based nanopore sensors can not only identify and quantify a wide variety of substances including anions, cations, enantiomers, explosives, chemical and biological agents, and proteins, but also have the potential as a novel peptide and DNA sequencing technique.

Dr. Richard X. Guan is an Assistant Professor in the Department of Chemistry and Biochemistry at the University of Texas at Arlington. He did his Ph.D. in Chemistry at the University of Kentucky, Lexington and then worked as Research Scientist in the Department of Medical Biochemistry and Genetics at Texas A&M Health Science Center. His current research focuses on the development of nano-pore technique for applications in biotechnology at the single molecule level.



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