



JOHNS HOPKINS
BLOOMBERG
SCHOOL of PUBLIC HEALTH

Department of Biostatistics

BIOSTATISTICS SEMINAR

Personalized Medicine and Statistical Learning

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Personalized medicine is an important and active area of clinical research. In this talk, we will systematically review recent publications in the area and outline the main scientific approaches and statistical issues at play. We will also describe some recent design and methodological developments in clinical trials for discovery and evaluation of personalized medicine. Statistical learning tools from artificial intelligence, including machine learning and reinforcement learning, are beginning to play increasingly important roles in these areas. We present several illustrative examples in treatment of depression, cancer and cystic fibrosis.

**The Johns Hopkins Bloomberg School of Public Health
Department of Biostatistics, Wednesday, September 28, 2011
Room W2030 School of Public Health, 4:00-5:00pm (Refreshments: 3:30)**

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