



**Biomedical and Health Informatics Lecture Series**  
Course Website: [Link](#)

**Tuesday, March 27, 2012**  
**12:00 - 12:50 p.m., Room T-663**

**Daniel R. Masys, M.D.**

Affiliate Professor of Biomedical and Health Informatics  
University of Washington, Seattle

**“Integration of genomic data into electronic health records”**

The era of “Personalized Medicine,” guided by individual molecular variation in DNA, RNA, expressed proteins and other forms of high volume molecular data brings new requirements and challenges to the design and implementation of Electronic Health Records (EHRs). This lecture will review the characteristics of biomolecular data that differentiate it from other classes of data commonly found in EHRs, enumerate a set of technical desiderata for its management in healthcare settings, and offer a candidate technical approach to its compact and efficient representation in operational systems.

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Dr. Daniel R. Masys is an Affiliate Professor of Biomedical and Health Informatics in the Department of Medical Education and Biomedical Informatics at the University of Washington, Seattle. An honors graduate of Princeton University and the Ohio State University College of Medicine, he completed postgraduate training in Internal Medicine, Hematology and Medical Oncology at the University of California, San Diego, and the Naval Regional Medical Center, San Diego. Dr. Masys’ 30+ year career in biomedical informatics prior to joining UW has included leadership positions at the National Cancer Institute and National Library of Medicine, and faculty appointments at the University of California, San Diego, and Vanderbilt University School of Medicine, where he is emeritus professor and chair of the Department of Biomedical Informatics.

Dr. Masys is an elected member of the Institute of Medicine of the National Academy of Sciences. He is a Fellow of the American College of Physicians, and a Fellow and Past President of the American College of Medical Informatics. He was a founding associate editor of the *Journal of the American Medical Informatics Association*, and has received numerous awards including the NIH Director's Award and the US Surgeon General's Exemplary Service Medal. His research interests are in systems approaches to representing and using personal molecular variation data to inform clinical decision making, and creation of research infrastructure to accelerate discovery in the life sciences.

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<http://courses.washington.edu/mebi590/schedule.htm>

Podcasts from previous quarters are available at  
<http://courses.washington.edu/mebi590/past.lecture.schedules.html>