

Computation and **I**nformatics in **B**iology and **M**edicine
Training Program

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***Privacy Issues in the Implementation
of Electronic Health Records***

Abstract:

Health care services for a given patient typically have no single locus of control and a patient's clinical record is distributed over a set of heterogeneous, autonomous provider entities. This widespread distribution requires robust mechanisms to insure privacy compliance for each clinical activity over the lifetime of the patient. Electronic Health Records (EHR) provide the capability to record and transmit personal medical information for use by authorized individuals and organizations for the purpose of improving or managing the patient's health or the health of any population of which they are a part. The proper use of this information is governed by a complex web of laws, regulations, organizational policies and patient preferences. Efficient computing solutions to mediate the EHR privacy space must operate in a dynamic, context dependent fashion to implement optimal solutions with respect to: (1) Privacy and confidentiality; (2) Integrity of the data, and (3) Availability for authorized and proper use.

This talk will outline the organizational, regulatory and technical environment that EHR privacy mechanisms must be designed to operate in and will identify the main goals and resulting technical challenges in providing for a patient's ability to choose freely and under what circumstances their personal health data will be made available.

Tuesday, November 15th
4:00 p.m.

Auditorium (Room 1111)
Genetics/ Biotechnology Center
425 Henry Mall