

Biomedical and Health Informatics Lecture Series

Course Website: [Link](#)

Tuesday, May 7, 2013

12:00 - 12:50 p.m.

Health Sciences, Room T-474

Peter Tarczy-Hornoch, MD, FACMI

Chair and Professor, Biomedical Informatics and Medical Education

Professor, Pediatrics (Division of Neonatology)

Adjunct Professor, Computer Science and Engineering

University of Washington

Fellow, [American College of Medical Informatics](#)

“The UW Medicine Amalga Data Repository”

This presentation will provide an overview of the history, current state and uses of the UW Medicine Amalga Data Repository. Topics covered will include the strategic vision for the repository, the data integration model, the growth and current content and usage of the repository. Examples of the use of the repository for diverse purposes will be presented including the use of the repository for clinical/translational research and as a platform for informatics research as well.

Dr. Tarczy-Hornoch's background includes 30 years of biomedical software development (biomedical instrumentation, bioinformatics, clinical informatics) and 20 years clinical medicine (pediatrics, neonatology). He is the Chair of the Department of Biomedical Informatics and Medical Education. His research focuses on: a) Foundational and applied research in the context of biomedical informatics support for translational and clinical research as part of the Institute of Translational Health Sciences (www.iths.org), b) facilitation of biospecimen acquisition and subject recruitment as part of two Life Sciences Discovery Fund grants (Washington Phenotyped Biospecimen Resource and the Cancer Biospecimen Resource), c) extraction of phenotype from the electronic medical record and pharmacogenomic decision support as part of the Northwest Institute of Genetic Medicine (www.nwigm.org), d) integration of whole exome data into the electronic medical record as part of the NEXT U01 Clinical Sequencing Exploratory Research grant (Jarvik, PI), e) data integration and clinical data repositories as part of the UW Medicine clinical computing leadership group, f) leveraging electronic medical records for comparative effectiveness research as part of the SCOAP CERTN (www.scoap.org), g) past research on a database of available genetic testing and on the application of genetic testing (GeneTests - <http://www.genetests.org/>, co-PI 1995-2004, consultant 2004-6) and general purpose data integration systems (2000-2010) (<http://www.biomediator.org>). He serves as the Chair of the NHGRI Clinical Sequencing Exploratory Research EMR Working group, on the Advisory Committee for Harvard NCBC i2b2 (Informatics for Integrating Biology and the Bedside, <http://www.i2b2.org/>), the Advisory Committee for University of California NCBC iDASH (Integrating Data for Analysis, Anonymization and Sharing, <http://idash.ucsd.edu/>), the Advisory Committee for University of Utah CTSA (<http://www.ccts.utah.edu/>), as Associate Editor for Translational Bioinformatics for the [Journal of Biomedical Informatics](#), and as Editorial board for the Journal of the American Medical Informatics Association (jamia.bmj.com).

Current Research: Other past research descriptions available at home page - <http://faculty.washington.edu/pth>.