UNIVERSITY of MARYLAND
MARLENE AND STEWART GREENEBAUM
COMPREHENSIVE CANCER CENTER

Population Science Seminar Series

Disease Etiology Research to Enhance Knowledge Graph Reasoning and to Improve our Understanding and Representation of Disease Features, Mechanisms and Nosology

Wednesday, October 22, 2025, 12:00 PM EST via Zoom Link

Disease knowledge captured in publications, clinical vocabularies and biomedical resources over time presents logistical challenges for discerning evolving knowledge. Developing tools to mine this information and to reveal shared mechanisms and common features provides opportunities to enhance differential diagnosis, to interpret cancer variants and to mine disease-to-disease relatedness through defined semantic relationships. Dr. Schriml will introduce the Human Disease Ontology knowledgebase, a globally utilized resource, sharing example use cases to exemplify collaborative opportunities.

Speaker: Lynn M. Schriml, Ph.D.

Dr. Lynn M. Schriml is a Professor in the Department of Epidemiology and Public Health, in the Division of Genomic Epidemiology and Clinical Outcomes (GECO) and at the Institute for Genome Sciences.

Dr. Schriml's current research incorporates data science and knowledge engineering, focusing on the classification of genetic and environmental drivers of complex diseases, biomedical data sharing, integration and harmonization. Dr. Schriml's research program involves the creation of broadly adopted biomedical concept classifications, a suite biomedical ontologies, including the Human Disease Ontology, Symptom Ontology, Influenza Ontology, Pathogen Transmission Ontology, Disease Drivers Ontology, the GAZ geographic location gazetteer and the ENVO environment ontology.

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