

GENETICS, BIOINFORMATICS, & SYSTEMS BIOLOGY COLLOQUIUM



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THURSDAY NOVEMBER 4TH
12:00PM PST
ON ZOOM!

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PASSWORD: GENETICS

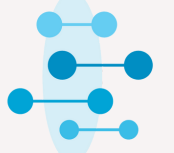
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DEPRESSION, INFLAMMATION, AND CARDIOVASCULAR DISEASE:

WHAT WE CAN LEARN FROM A LIFETIME OF VISITS TO THE DOCTOR

Psychiatric genetics is rapidly developing a strong presence in the world of electronic health record (EHR) based genomics research. While still in the early stages of this endeavor, the field is grappling with issues related to the feasibility of complex study designs, the reliability of phenotype data, and the interpretability of results from imperfect systems with unknown degrees of missing data. Issues related to ascertainment and bias also surface in passive collection of EHR-based data, particularly in the United States, in part because of the complex relationships between access to health care, insurance, and employment status. Despite the obvious challenges EHR-based psychiatric genomics provides a unique opportunity for pre-translational basic research in an environment that mirrors the real-world settings in which clinical care is delivered. The PsycheMERGE network is a thriving hub of collaborative activity with members who are committed to facing these challenges, developing innovative and portable solutions, and sharing in discoveries that advance the field. Members work together towards a shared goal of determining the impact of both genetic and social determinants on mental health and wellbeing. This often includes extending investigations beyond psychiatric diagnoses to include physical symptoms, comorbid chronic diseases, medication histories, and quantitative laboratory measurements. Moreover, because the delivery of care is woven into the data itself, EHR-based research also creates a window into the practice of medicine. Furthermore, maintaining this broad view of mental health facilitates a deeper understanding of the relationships between the mind, the brain, and the body. During this talk I will introduce the network, discuss opportunities and challenges inherent in EHR-based genomics, and highlight results from recent studies investigating the relationship between depression, inflammation, and cardiovascular disease.

Organization Committee: J. Gleeson, J. Sebat
GBSBC Seminar Coordinator: R. White

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