Special Issue

Predictive Medicine in Neuropathology

Message from the Guest Editor

Predictive medicine is a relatively newer thrust for neuropathology. However, predictive medicine for neuropathology is making great strides in both technological construction of brand-new algorithms and methods, as well as applications of existing machine learning, network science, biostatistics, and systems engineering techniques to improve neuropathology research and clinical care. Predictive medicine is being used to provide diagnostic, prognostic, therapeutic or rehabilitative decision support for neurologic patient care; such research focuses on identifying unique features, or patient phenotypes, that enable custom-tailored, personalized predictions. Other examples of predictive medicine in neuropathology include preclinical or clinical "big data" exploratory analyses to better understand multiscalar, multifactorial etiology that plagues currently intractable neurological disease. From personalized models, population models, network models, and beyond, predictive medicine is the crystal ball for identifying new neuropathological causes, expediting the development of new neurologic disease treatments, and optimizing neurologic patient care.

Guest Editor

Dr. Cassie S. Mitchell

Wallace H. Coulter Department of Biomedical Engineering, Georgia Institute of Technology and Emory University, Atlanta, GA 30332, USA

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Editor-in-Chief

Prof. Dr. Stephen D. Meriney
Department of Neuroscience, University of Pittsburgh, Pittsburgh, PA 15260, USA

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