Special Issue

Genetic Epidemiology: The State-of-the-Art and Future Perspectives

Message from the Guest Editor

The landscape of genetic epidemiology is ever-changing due to constant advances in study designs, the availability of diverse data types, analytical approaches, and biological knowledge, and therefore the field continues to offer the promise of significantly accelerating our understanding of the distribution and determinants of human disease. While there has been great progress identifying genetic factors contributing to many health-related phenotypes, as well as the underlying causal processes, a substantial portion of the heritability component for the vast majority of health conditions remains unidentified. Thus, there is an opportunity to advance our understanding of the biological processes underlying health outcomes by examining diverse populations, considering conditional genetic and non-genetic relationships (i.e., epistasis, gene–environment interactions, host–pathogen relationships), and leveraging multi-omic data types in genetic analyses. There is also a significant need to investigate understudied and less-common conditions that have a significant public health burden, with thoughtful considerations for exogenous exposures.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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