

Special Issue

Advances in Neuroimaging Genetics

Message from the Guest Editor

In recent years, a multitude of brain mapping techniques has been used to try to establish a connection between anatomic differences in structure and/or neural circuitry in the brain, phenotypes, and individual variations in the human genome. Several studies have suggested converging evidence that brain imaging can establish relationships between genes and behavior. The use of multimodal imaging has implications to study underlying neurobiological and neuroanatomical mechanisms that influence behavioral phenotypes or disease states. In the process of doing so, intermediate or less severe phenotypes may be uncovered. This Special Issue will provide a broad overview on how multimodal neuroimaging modalities are being used to understand the role that imaging can play in deciphering the genetic underpinnings of cognition, behavior and brain. The integration of genetic and neuroimaging data is full of possibilities but not without consideration of methodological and conceptual challenges. We review recent advances in the field and identifies important methodological and conceptual challenges that remain unresolved in the attempt to fully exploit the synergism of imaging and genetics.

Guest Editor

Dr. Andrea L. Gropman
Center for Experimental Neurotherapeutics, St. Jude Children's
Research Hospital, Memphis, TN 38105, USA

Deadline for manuscript submissions

closed (5 December 2021)

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CiteScore 5.5
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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
genes@mdpi.com

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Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan
Experimental Cancer Therapeutics, The University of Alabama at
Birmingham, 1825 University Blvd., SHEL 814, Birmingham, AL 35294-
2182, USA

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