



genes



an Open Access Journal by MDPI

Advances in Neuroimaging Genetics

Guest Editor:

Dr. Andrea L. Gropman

Division of Neurogenetics and
Neurodevelopmental Pediatrics,
Children's National Hospital and
the George Washington
University School of Medicine
and Health Sciences,
Washington, DC 20010, USA

Deadline for manuscript
submissions:

closed (5 December 2021)

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.



mdpi.com/si/83236

Special Issue



genes



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving 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?

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank: JCR - Q2 (*Genetics and Heredity*) / CiteScore - Q2 (*Genetics (clinical)*)

Contact Us

Genes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/genes
genes@mdpi.com
[X@Genes_MDPI](#)