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Genomic Mosaicism in Human Development and Diseases

Guest Editor:

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Message from the Guest Editor

Genomic mosaicism defines the phenomenon that different tissues and organs from the same individual present different genomic sequences. Mosaicism is a result of postzygotic mutations occurring during embryonic development, tissue self-renewal, environmental toxicity, aging, and disease. The failure to repair these mutations will leave them in the genome throughout one's lifespan, and the mutations will be inherited by all the carrier's daughter cells.

On the one hand, neutral or near-neutral genomic mosaic mutations can serve as recorders of human embryonic development.

On the other hand, emerging evidence has demonstrated that mosaic mutations are important genetic origins of disease.

In this Special Issue, submissions on the following, but not limited to, topics are welcome:

- Mosaicism in human development;
- Somatic mosaicism that directly causes human disorders;
- Pre-disease mosaic mutation burdens for different disorders;
- Methodologies for mosaic studies.

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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.

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