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Genetic Influence in Exercise Performance

Guest Editors:

Dr. Juan Del Coso
Universidad Rey Juan Carlos, Madrid, Spain

Prof. Dr. Alejandro Lucia
1. Faculty of Sports Sciences, Universidad Europea de Madrid, Madrid, Spain
2. Physical Activity and Health Laboratory, Instituto de Investigación Sanitaria Hospital '12 de Octubre' ('imas12'), 28041 Madrid, Spain

Deadline for manuscript submissions:
closed (31 July 2020)

Message from the Guest Editors

Dear colleagues,

At the start of the new millennium, research in genetics and athletic performance primarily focused on finding genetic variants potentially associated with athletic success in either endurance or more power/speed-oriented sports events. Notably, numerous studies have compared the frequency of polymorphic alleles or genotypes (i.e., usually for a given single nucleotide polymorphism [SNP]) in elite athletes vs. non-athletic populations. Nonetheless, candidate gene studies focusing on a small number of SNPs are often limited by lack of replication and the small effect size of an individual SNP. More recently, the use of genome-wide association studies or whole genome sequencing has been helping us to get deeper insight into how genetic variants might (or not) influence physical performance.

We aim to prepare a collection on the influence of genetics not only on athletic/exercise performance per se but also on performance-related phenotypes, such as response to exercise training ('trainability'), risk of muscle-skeletal injury, or muscle tissue characteristics. We welcome original articles, systematic reviews, meta-analyses, or opinions.

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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.

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Contact Us

Genes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/genes
genes@mdpi.com
𝕏@Genes_MDPI