Special Issue

Biotechnology and Genetics in Fruits

Message from the Guest Editors

The rapid increase in the world population and global climate change are two factors that will affect the food supply in the very near future. Fruits are valuable components in the human diet, providing essential nutrients and healthy compounds. Their development and ripening are a genetically programmed process that involve changes in color, texture and flavor, and also affect their yield. In addition, this process is greatly affected by water shortage or high temperatures, among other abiotic stresses. Biotechnology and fruit genetics become a great challenge to cope with these situations. Transcription factors, noncoding RNAs and microRNAs play important roles in the regulation of gene expression in fruit ripening. This Special Issue will focus on advances in the identification and functional characterization of these factors, providing insight into the molecular mechanisms controlling fruit ripening, and enabling the development and efficient use of biotechnology-based systems for an improvement in fruit yield and quality, as well as resistance, under stress conditions. We welcome research based on multiomics and functional analysis.

Guest Editors

Prof. Dr. Enriqueta Moyano Cañete
Department of Biochemistry and Molecular Biology, University of Córdoba, Campus Rabanales, 14071 Córdoba, Spain

Prof. Dr. Juan Muñoz Blanco
Department of Biochemistry and Molecular Biology, Campus Rabanales, University of Córdoba, 14071 Córdoba, Spain

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

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Message from the Editor-in-Chief

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

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