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Novel Insights into the Genetics of Root Development (2019)

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Deadline for manuscript submissions:

closed (20 September 2019)

Message from the Guest Editor

Due to its basal function, the root system is playing a critical role in plant growth and yield. Its constant adaptation to various environmental stresses including abiotic and biotic stresses (e.g., interaction between the plant root system and the soil microbiome), its simple cellular organization, and its well-described architecture are clear advantage when applying molecular genetic approaches to better understand its development and response to environmental stresses.

In this Special Issue, we invite reviews, perspectives, and original research articles to advance our knowledge related to plant root development. Topics will not be limited to the development of new methods and technologies to analyze root architecture, genome-wide association studies focusing on root phenotypic traits, characterization of the regulatory mechanisms controlling gene activity during root development in response to biotic and abiotic stresses (e.g., role of different epigenomic changes, functional genomic studies revealing the role of genes during root development). This Special Issue will also consider manuscripts describing the development of plant organs such as legume nodules.



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Special Issue



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Editor-in-Chief

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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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