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Plant Morphology and Function, Geometric Morphometrics, and Modelling: Decoding the Mathematical Secrets of Plants

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Message from the Guest Editors

The quantification of the morphological characteristics of plants by establishing mathematical models, especially geometric models and statistical models, is an important research method in the field of plant morphology. Similarly, it is important to study the functional properties of plants at large spatial scales to help us better understand how elements of plant morphology adapt to environmental changes. Luckily, ten years ago, a universal geometric equation created by Dr. Johan Gielis was proposed. This equation can be used to describe universal natural shapes, especially symmetrical shapes. Moreover, this model provides a strong tool for uncovering the secrets of plant development and evolution.

This Special Issue of *Plants* is poised to introduce new case studies and novel approaches to determine the morphological characteristics of different plants and their environmental adaptability strategies. In addition, this Special Issue will also focus on quantifying the geometry of the natural shapes of plants to show their survival and evolutionary traits.



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Special Issue



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Message from the Editor-in-Chief

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