



Breeding, Genetics, and Genomic of the Genus *Cucumis*

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Message from the Guest Editors

Dear Colleagues,

The genus *Cucumis* belongs to the family Cucurbitaceae and is considered the most important genus worldwide. Cucumber and melon are considered model species and are largely used to study important biological processes (sex determination, plant vascular biology, fruit quality, pest, and disease resistance) due to their highly polymorphism and the availability of the complete genome sequence. The wide *Cucumis* germplasm is a powerful starting point to shed light on important processes, such as domestication, of which the genetic basis is still poorly understood. Deep investigation of the genetic diversity within the genus will help us to discover morphological and biological features that are useful for genetic resources conservation, valorization, and utilization. *Cucumis* represent an important genes reservoir for applying new breeding techniques, such as gene editing and cisgenesis, to study gene functions and improve important agronomic and quality traits.

This Special Issue on the “Breeding, Genetics, and Genomic of the Genus *Cucumis*” invites research and review articles on the advanced genetic and genomics tools to be applied in *Cucumis* breeding.





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Message from the Editor-in-Chief

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