

Special Issue

Advances in Genome Size Evolution of Plants

Message from the Guest Editors

Plants stand out amongst eukaryotes for presenting a staggering genome size range of ca. 2400-fold, the largest for any comparable group of organisms. However, genome size has been estimated for only 3.1% of the ca. 350,000 species of angiosperms, the largest plant group, with the coverage in plants ranging from 1.7% in mosses (ca. 12,000 species) to 41% in gymnosperms (ca. 1000 species). It is becoming increasingly evident that genome size influences plants in myriad ways at the nuclear, cellular, and whole plant levels, ultimately affecting species evolvability and resilience to environmental change. The growing pool of available genome size data together with recent advances and improvements in methodological and statistical approaches make it possible to gain critical insights into genome size dynamics. This Special Issue aims at contributing to this topic through a wide range of articles (original research papers, perspectives, hypotheses, reviews, modeling approaches and methods) on genome size diversity and evolution in plants.

Guest Editors

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Prof. Joan Vallès

Deadline for manuscript submissions

closed (20 April 2022)



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About the Journal

Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Editor-in-Chief

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