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Dynamics of Chromosome Evolution across Animals and Plants: Advances, Insights, and Prospects

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Message from the Guest Editors

Dear Colleagues,

Chromosomal rearrangements, such as inversions, translocations, duplication, and deletion, could serve as a driver of chromosomal evolution, karyotype organization, and species diversification, helping to physically trace the evolutionary paths within and/or between taxa. This issue focuses on the structural changes in both autosomal and sex chromosomes in animals and plants, and on approaches that show how chromosomal evolution can elucidate the dynamics, speciation, and diversification among closely and distantly related species, as well as how chromosomal rearrangements that influence the evolution of sex determination systems and sex differentiation can contribute to the understanding dynamics of chromosomal evolution. Conventional and advanced molecular cytogenetics using different types of specific fluorescent in situ hybridization (FISH) probes, numerous state-of-the-art omics techniques and combinations of them have been used to study chromosome evolution in general, which is the main subject of this issue.



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Special issue



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Message from the Editor-in-Chief

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