GENOME RESEARCH
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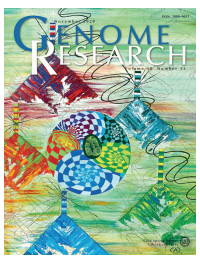
Research

Methods

(continued)

Resource

[OA]Open Access paper



Cover An artistic representation of 3D genome organization, illustrating chromosome territories, nuclear compartments, as well as the emergence of structural variants due to genomic instability. In this issue, long-read sequencing in an *Arabidopsis thaliana* line with decreased ribosomal RNA (rRNA) gene copies shows features of genomic instability, including an accumulation of large tandem duplications, which lead to the duplication of hundreds of genes within a few generations. The authors investigate the impact of these duplications on 3D genome organization, gene expression, cytosine methylation, and plant phenotype, uncovering a potential link between these duplications and pathogen resistance. (Cover artwork by Clément Costarella, https://spontart.com, and conceptually inspired by Frédéric Pontvianne. [For details, see Picart-Picolo et al., pp. 1583–1592.])