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DESCRIPTION

Plant Gene publishes papers that focus on the **regulation, expression, function** and **evolution** of **genes** in plants, algae and other photosynthesizing organisms (e.g., cyanobacteria), and plant-associated microorganisms.

Plant Gene strives to be a diverse plant journal and topics in multiple fields will be considered for publication. Although not limited to the following, some general topics include: Gene discovery and characterization Gene regulation in response to environmental stress (e.g., salinity, drought, etc.) Genetic effects of transposable elements Genetic control of secondary metabolic pathways and metabolic enzymes. Herbal Medicine - regulation and medicinal properties of plant products. Plant hormonal signaling. Plant evolutionary genetics, molecular evolution, population genetics, and phylogenetics. Profiling of plant gene expression and genetic variation Plant-microbe interactions (e.g., influence of endophytes on gene expression; horizontal gene transfer studies; etc.) Agricultural genetics - biotechnology and crop improvement

Plant Gene encourages [submission](#) of novel manuscripts that present a reasonable level of analysis, functional relevance and/or mechanistic insight. *Plant Gene* also welcomes papers that have predominantly a descriptive component but improve the essential basis of knowledge for subsequent functional studies, or provide important confirmation of recently published discoveries.

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