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Highlights

- Incorporating gene expression concepts in undergraduate classroom allows for engaging students in authentic research
- Plants are an effective and convenient model to engage students in learning about gene expression
- Integrating bioinformatics approaches, data mining and quantitative data analysis with wet lab modules in plant models lead to successful learning of gene expression concepts
- Various resources for teaching gene expression concepts using plant systems are developed and could be utilized by the undergraduate instructors

Keywords

Regulation of gene expression, undergraduate classroom, student research experiences

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