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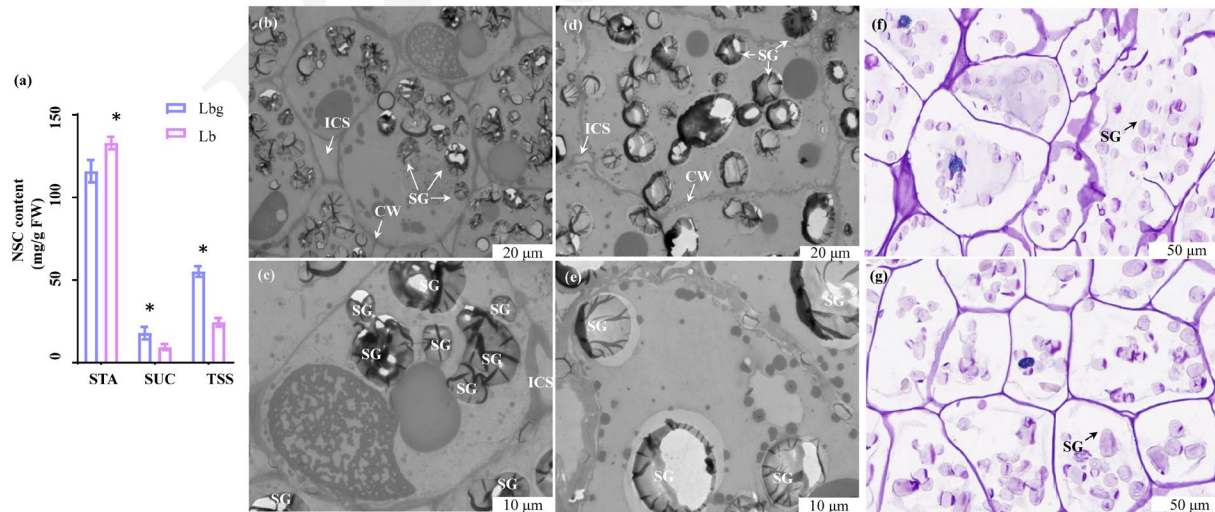
Molecular cloning, characterization and expression analysis of three key starch synthesis-related genes from the bulb of a rare lily germplasm, *Lilium brownii* var. *giganteum*

Key words: *Lilium*, starch synthesis, bulblet development, SNPs, expression pattern

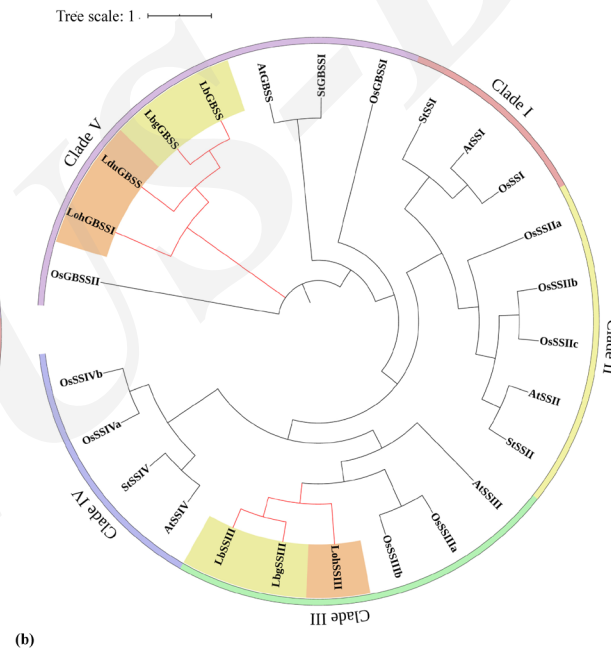
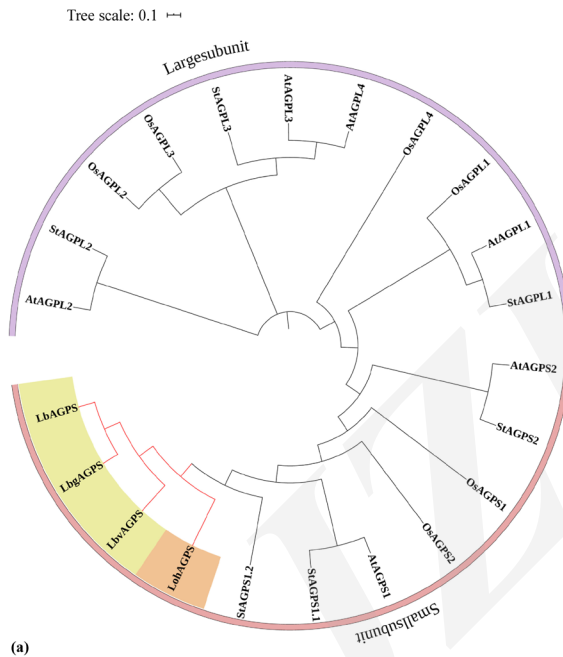
Research Summary

This article mainly focused on the rare lily germplasm, *Lilium brownii* var. *giganteum* from the starch synthesis pathway as follows:

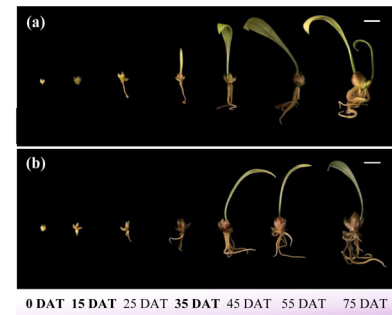
- Comparison of starch content and characteristics



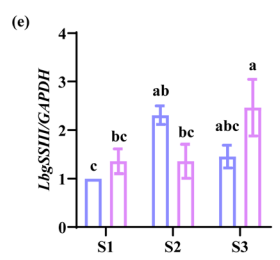
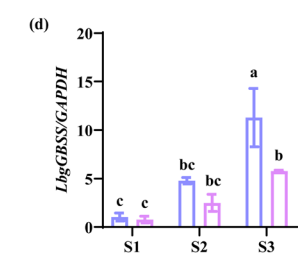
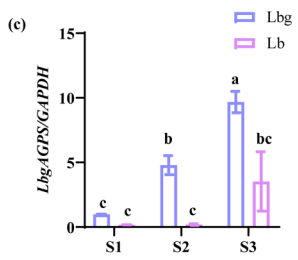
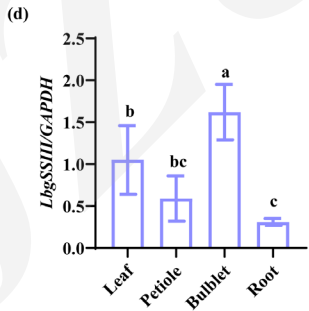
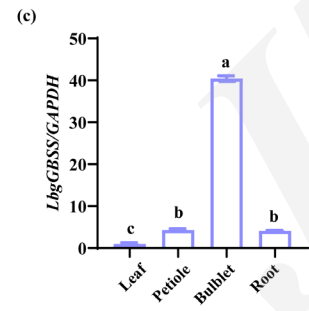
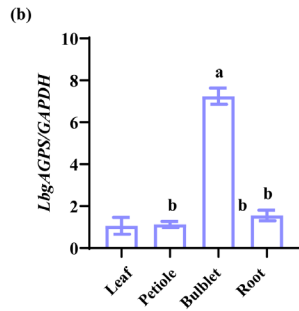
- **Cloning and classification of three key starch synthesis-related genes**



- Expression pattern of three key starch synthesis-related genes



S1 S2 S3



Innovation points

- **Cloning** of the tree key starch synthesis-related genes for the first time in this rare species.
- **Discovery** of a set of single nucleotide polymorphisms (SNPs) for further validation.