

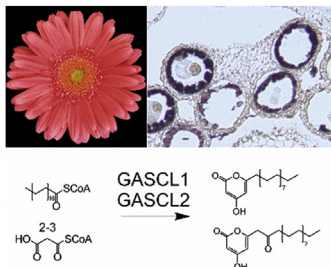


## METABOLISM

**Functional characterization and expression of GASCL1 and GASCL2, two anther-specific chalcone synthase like enzymes from *Gerbera hybrida***

pp. 38–45

Juha Kontturi, Raisa Osama, Xianbao Deng, Hany Bashandy, Victor A. Albert and Teemu H. Teeri\*

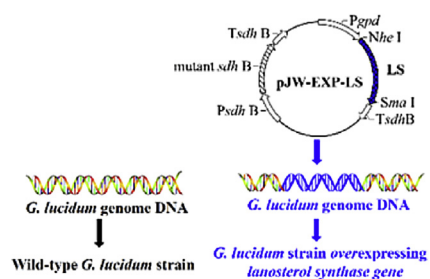


*Gerbera* tapetum localized GASCL1 and GASCL2 are tri- and tetraketide synthases capable of using long chain acyl-CoA starters.

**Overexpression of the homologous lanosterol synthase gene in ganoderic acid biosynthesis in *Ganoderma lingzhi***

pp. 46–53

De-Huai Zhang, Na Li, Xuya Yu, Peng Zhao, Tao Li and Jun-Wei Xu\*



Overexpression of lanosterol synthase gene increased the ganoderic acid content and the accumulation of lanosterol and ergosterol in a submerged *G. lingzhi* culture.

## ECOLOGICAL BIOCHEMISTRY

**Inter-population and inter-organ distribution of the main polyphenolic compounds of *Epilobium angustifolium***

pp. 54–63

Nicolas Baert\*, Jorma Kim, Maarit Karonen and Juha-Pekka Salminen



Nineteen polyphenolic compounds were quantified from different parts of willowherb across 10 populations. Clear differences can be seen in the polyphenol fingerprints of leaves, flowers and stems.

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