



## Phytochemistry Vol. 87

## Contents

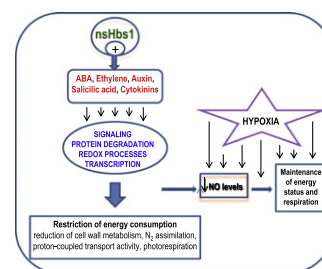
## REVIEW

## Non-symbiotic hemoglobins in the life of seeds

pp 7–15

Angel J. Matilla\*, María del Carmen Rodríguez-Gacio

The relationship between hypoxia and nsHbs1 involves a strictly regulated hormonal signaling that generates a complex network of events whose ultimate goal is to maintain cellular redox status and to prevent or reduce the hypoxic stress.



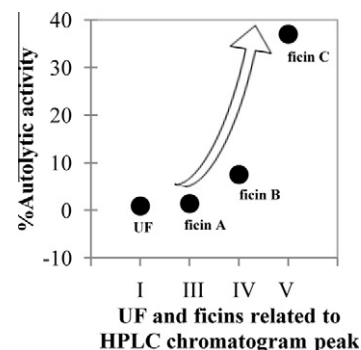
## PROTEIN BIOCHEMISTRY AND PROTEOMICS

Purification and autolysis of the ficin isoforms from fig (*Ficus carica* cv. Sabz) latex

pp 16–22

Hamid Zare, Ali Akbar Moosavi-Movahedi\*, Maryam Salami, Morteza Mirzaei, Ali Akbar Saboury, Nader Sheibani

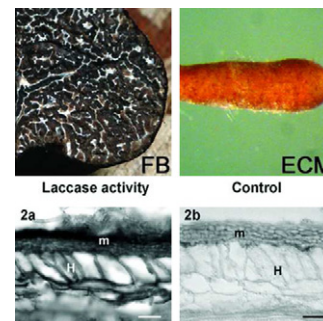
Ficins autolysis enhanced in order of their elution from the column. As the first and last eluted ficin had the lowest and highest autolysis, respectively.

Transcriptional, biochemical and histochemical investigation on laccase expression during *Tuber melanosporum* Vittad. development

pp 23–29

Osvaldo Zarivi, Antonella Bonfigli, Sabrina Colafarina, Pierpaolo Aimola, Anna Maria Ragnelli, Michele Miranda\*, Giovanni Pacioni

*Tuber melanosporum* fruit body develops from the ectomycorrhized *Corylus avellana* plants. Histochemical localization of laccase activity.

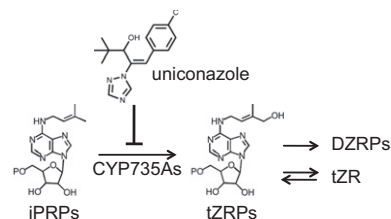


**MOLECULAR GENETICS AND GENOMICS****Uniconazole, a cytochrome P450 inhibitor, inhibits *trans*-zeatin biosynthesis in *Arabidopsis***

pp 30–38

Eriko Sasaki, Takehiko Ogura, Kentaro Takei, Mikiko Kojima, Nobutaka Kitahata, Hitoshi Sakakibara, Tadao Asami, Yukihisa Shimada\*

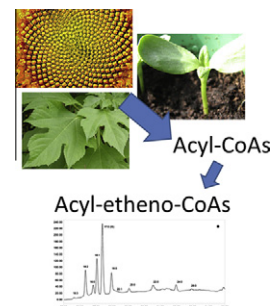
Uniconazole, a well known inhibitor of cytochrome P450 monooxygenase, prevents *trans*-zeatin biosynthesis, and its targets in CK biosynthesis are CYP735As in *Arabidopsis*.

**METABOLISM****Changes in acyl-coenzyme A pools in sunflower seeds with modified fatty acid composition**

pp 39–50

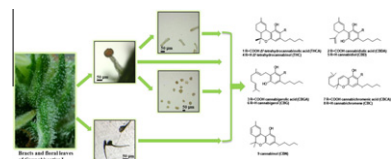
Jose A. Aznar-Moreno, Enrique Martínez-Force, Mónica Venegas-Calerón, Rafael Garcés, Joaquín J. Salas\*

The acyl-CoA pools of different tissues of sunflower mutants with altered fatty acid compositions were analyzed using a technique based on HPLC-fluorescence. The effect of the different mutations on lipid metabolism was discussed on the basis of the results.

**Analysis of cannabinoids in laser-microdissected trichomes of medicinal *Cannabis sativa* using LCMS and cryogenic NMR**

pp 51–59

Nizar Happyana, Sara Agnolet, Remco Muntendam, Annie Van Dam, Bernd Schneider, Oliver Kayser\*



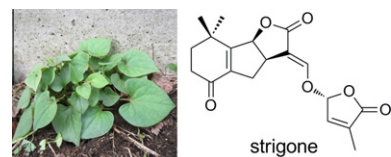
LCMS and cryogenic NMR analysis of cannabinoids in laser dissected glandular trichomes from *Cannabis sativa* L.

**ECOLOGICAL BIOCHEMISTRY****Strigone, isolation and identification as a natural strigolactone from *Houttuynia cordata***

pp 60–64

Takaya Kisugi, Xiaonan Xie, Hyun Il Kim, Kaori Yoneyama, Aika Sado, Kohki Akiyama, Hideo Hayashi, Kenichi Uchida, Takao Yokota, Takahito Nomura, Koichi Yoneyama\*

Strigone, a germination stimulant for root parasitic plants was isolated from root exudates of the herb *Houttuynia cordata*. Strigone exhibited highly potent activity on *Striga hermonthica*.



Download English Version:

<https://daneshyari.com/en/article/5165226>

Download Persian Version:

<https://daneshyari.com/article/5165226>

[Daneshyari.com](https://daneshyari.com)