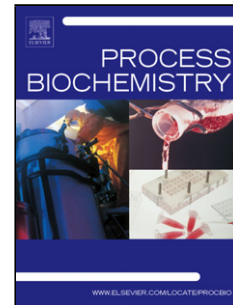


Accepted Manuscript

Title: Different glyceollin synthesis-related metabolic content and gene expressions in soybean callus suspension cultures and cotyledon tissues induced by alginate oligosaccharides

Authors: Kaiqiang Wang, Qing Peng, Yu Qiao, Yang Li, Decheng Suo, Bo Shi



PII: S1359-5113(18)30638-X
DOI: <https://doi.org/10.1016/j.procbio.2018.08.013>
Reference: PRBI 11424

To appear in: *Process Biochemistry*

Received date: 1-5-2018
Revised date: 15-7-2018
Accepted date: 10-8-2018

Please cite this article as: Wang K, Peng Q, Qiao Y, Li Y, Suo D, Shi B, Different glyceollin synthesis-related metabolic content and gene expressions in soybean callus suspension cultures and cotyledon tissues induced by alginate oligosaccharides, *Process Biochemistry* (2018), <https://doi.org/10.1016/j.procbio.2018.08.013>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Different glyceollin synthesis-related metabolic content and gene expressions in soybean callus suspension cultures and cotyledon tissues induced by alginate oligosaccharides

Kaiqiang Wang^a, Qing Peng^a, Yu Qiao^a, Yang Li^b, Decheng Suo^b, Bo Shi^{a,*}

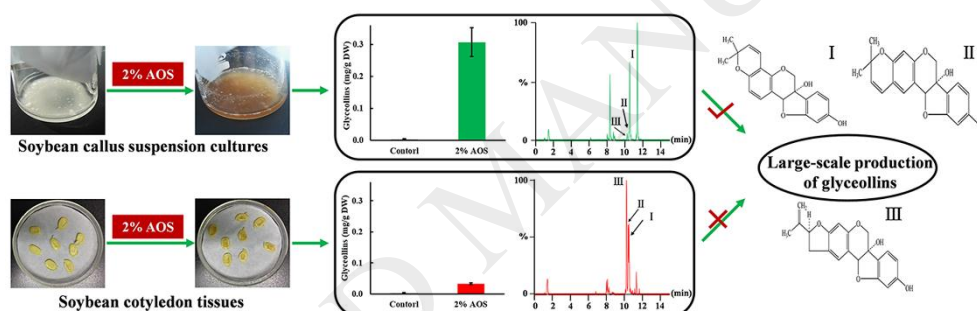
^a Key Laboratory for Feed Biotechnology of the Ministry of Agriculture, Feed Research Institute, Chinese Academy of Agricultural Sciences, Beijing 100081, China

^b Institute of Quality Standard and Testing Technology for Agro-Products, Chinese Academy of Agricultural Sciences, Beijing 100081, China

* Corresponding author at: Feed Research Institute, Chinese Academy of Agricultural Sciences, Beijing 100081, China.

E-mail address: shibo@caas.cn (B. Shi).

Graphical Abstract



Highlights

- Glyceollin produced by soybean callus suspension cultures upon AOS was first found.
- Compound content and gene expression changed during glyceollin synthesis under AOS.
- Glyceollin I was prominent among isomers in AOS-treated callus suspension cultures.
- Glyceollin II and III were dominant among isomers in AOS-induced soybean cotyledon tissues.

Download English Version:

<https://daneshyari.com/en/article/10224891>

Download Persian Version:

<https://daneshyari.com/article/10224891>

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