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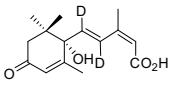
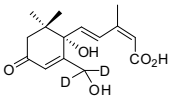
Contents

METABOLISM

Ashok S. Jadhav, David C. Taylor, Michael Giblin, Alison M.R. Ferrie, Stephen J. Ambrose, Andrew R.S. Ross, Ken M. Nelson, L. Irina Zaharia, Nirmala Sharma, Maureen Anderson, Pierre R. Fobert, Suzanne R. Abrams*

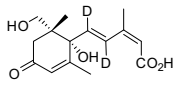


(+)-4,5-d_2-ABA

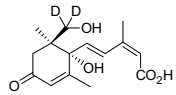


(+)-7′,7′-d_2-7′OH ABA

Isotopically labeled ABA and its hydroxylated metabolites, 7′-, 8′- and 9′-hydroxy ABA, were supplied to microspore-derived embryos of *Brassica napus* cv Hero. All compounds included expression of oleosin and fatty acid elongase genes and increased the accumulation of triacylglycerols and very long chain fatty acids.



(+)-4,5-d_2-8′OH ABA

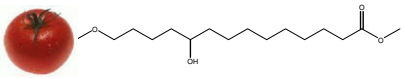


(+)-9′,9′-d_2-9′OH ABA

ECOLOGICAL BIOCHEMISTRY

Ruth E. Stark*, Bin Yan, Suzanne M. Stanley-Fernandez, Zhen-jia Chen, Joel R. Garbow

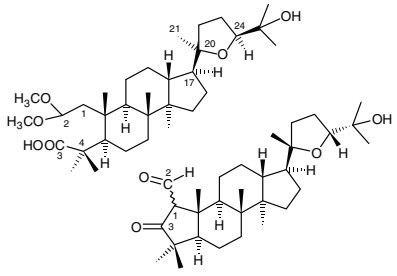
A comprehensive ^{13}C NMR relaxation study of tomato fruit cuticle has been made to assess the impact of hydration and thermal stresses on motions at individual polymer sites that are expected to influence the functional integrity of this protective plant membrane.



CHEMOTAXONOMY

Silvia Pointinger, Somnuk Promdang, Srunya Vajrodaya, Caroline M. Pannell, Otmar Hofer*, Kurt Mereiter, Harald Greger*

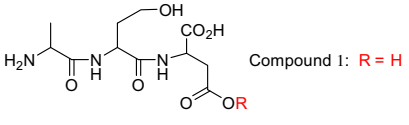
The 2,3-secodammarane aglasilvinic acid and the related silvaglines with a five-membered A-ring represented typical chemical features of *A. silvestris* accompanied by a series of 3,4-secodammaranes, a pregnane steroid and two sesquiterpenes. Comparison of six different plant collections revealed the existence of two chemo-types characterised either by 20*R* or 20*S* configuration in all major triterpenes.



BIOACTIVE PRODUCTS

Robin E. Mitchell*, David R. Greenwood, Vijayalekshmi Sarojini

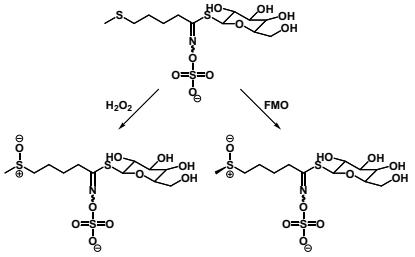
Two compounds from liquid cultures of *Burkholderia glumae* were determined to be L-alanyl-L-homoserinyl-L-aspartic acid, and 3-[L-alanyl-L-homoserinyl-L-aspartyl-β-carboxy]-4-hydroxy-5-oxopyrazole, the latter having antibacterial properties.

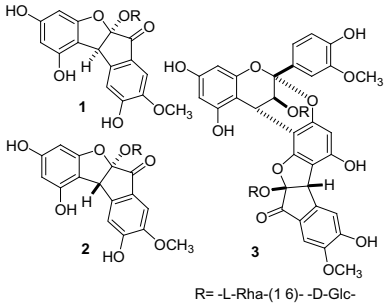


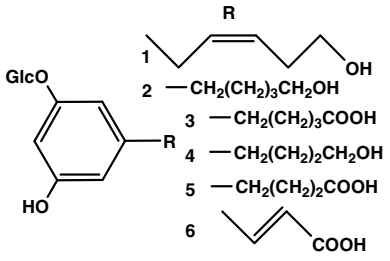
Compound 1: R = H

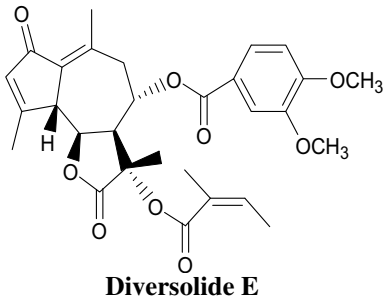
Compound 2: R =

CHEMISTRY









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