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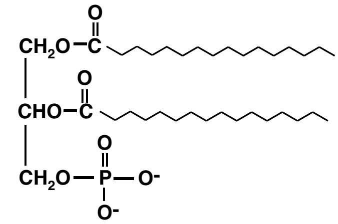
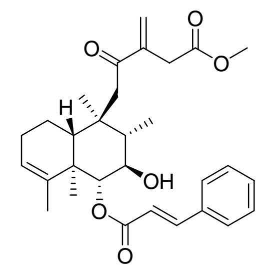
MOLECULAR GENETICS AND GENOMICS

METABOLISM



BIOACTIVE PRODUCTS



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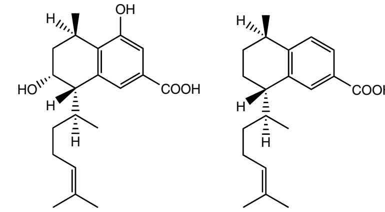
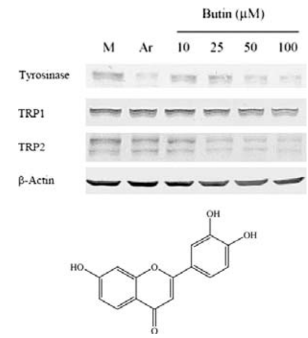


1 2

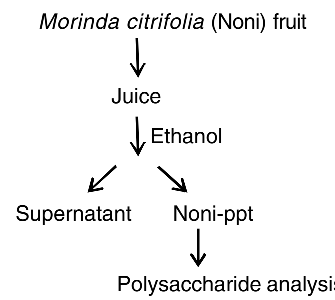
Mei-Hsien Lee*, Yi-Pei Lin, Feng-Lin Hsu, Gui-Rong Zhan, Kun-Ying Yen



Twelve components were isolated from *Spatholobus suberectus* by using bio-guided assay. Among them, butin (**7**) is the most active component in reducing expression of cellular tyrosinase and in lowering melanin content in human epidermal melanocytes (HEMn). This inhibition is exerted through inhibition of transcription of the genes encoding tyrosinase, tyrosinase-related proteins 1 and 2.

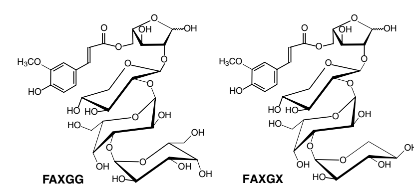
CHEMISTRY

Anh Kim T. Bui, Antony Bacic, Filomena Pettolino*



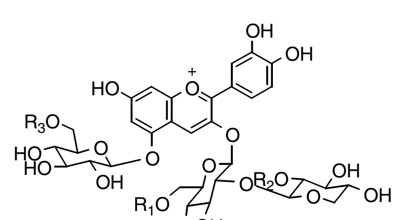
Chemical characterisation of the ethanol insoluble fraction of Noni juice (Noni-ppt) shows that it contains predominantly pectic polysaccharides (homogalacturonan, rhamnogalacturonan, arabinan, and type I arabinogalactan), in addition to arabinogalactan-protein and low amounts of xyloglucan, heteroxylan and heteromannan.

Ella Allerdings, John Ralph, Hans Steinhart, Mirko Bunzel*



α-D-Galactopyranosyl-(1 → 3)-α-L-galactopyranosyl-(1 → 2)-β-D-xylopyranosyl-(1 → 2)-5-*O*-*trans*-feruloyl-L-arabinofuranose (FAXGG) and α-D-xylopyranosyl-(1 → 3)-α-L-galactopyranosyl-(1 → 2)-β-D-xylopyranosyl-(1 → 2)-5-*O*-*trans*-feruloyl-L-arabinofuranose (FAXGX), the most complex feruloylated heteroxylan side-chains known to date, have been isolated from maize bran and fully structurally characterized.

Fumi Tatsuzawa, Norio Saito, Koichi Shinoda, Atsushi Shigihara, Toshio Honda*



R_1, R_2, and R_3 = H or acyl groups

Seven acylated cyanidin 3-sambubioside 5-glucoside were isolated from flowers of three garden plants in the Cruciferae. Their structures were established by spectroscopic methods.

OTHER CONTENTS

* Corresponding author

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