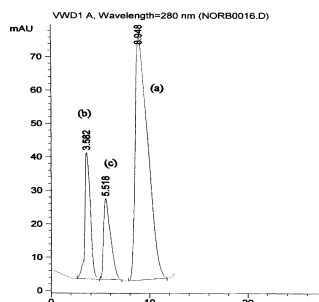


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Regular Articles

Stability Indicating Methods for the Determination of Norfloxacin in Mixture with Tinidazole

M. A.-A. Mohammad, N. H. Zawilla, F. M. El-Anwar, and S. M. El-Moghazy Aly

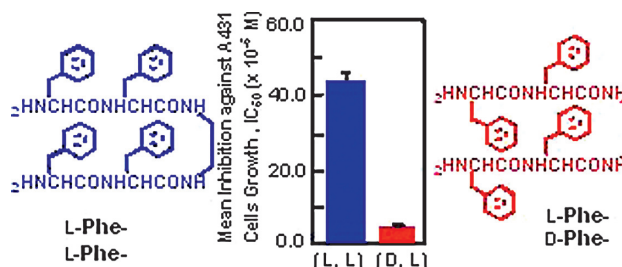


LC chromatogram showing (a) Nor, (b) Tnd and (c) decarboxylated Nor.

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Diastereomeric Selective Effects of Double-Stranded Peptides Conjugated with –Phe–Phe–Residue for Growth Inhibition and Permeability of Ca²⁺ on A431, src^{ts}NRK, and A549 Cells Proliferation

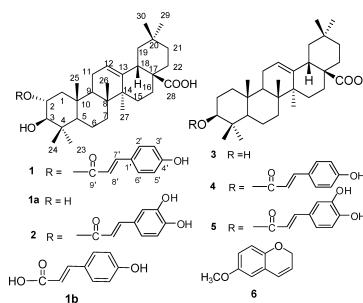
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Triterpenoids from *Hippophae rhamnoides* L. and Their Nitric Oxide Production-Inhibitory and DPPH Radical-Scavenging Activities

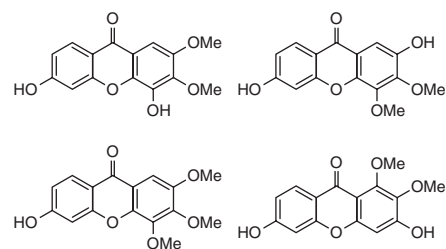
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Xanthenes from Stems of *Hypericum chinense*

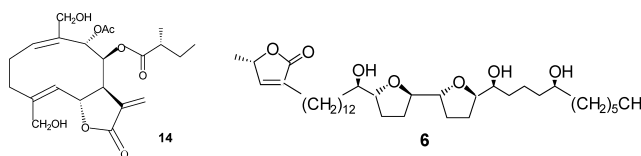
N. Tanaka and Y. Takaishi



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Effects of Plant Lactones on the Production of Biofilm of *Pseudomonas aeruginosa*

E. Cartagena, O. Á. Colom, A. Neske, J. C. Valdez, and A. Bardón

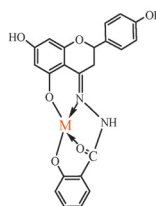


Sixteen plant sesquiterpene lactones (SL) from species of Asteraceae and Hepaticae, and seven annonaceous acetogenins (AA) from Annonaceae were evaluated for their capacity to alter the biofilm formation process of a wild strain of *Pseudomonas aeruginosa*. Major effects were observed for the SL 14 that displayed a strong inhibitory action at 0.25 µg/ml while the AA 6 promoted the biofilm production at the same concentration.

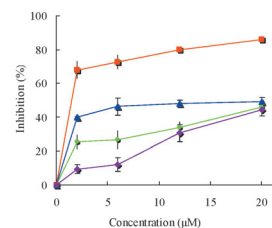
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Synthesis, Characterization and Antioxidant Activity of Naringenin Schiff Base and Its Cu(II), Ni(II), Zn(II) Complexes

T.-R. Li, Z.-Y. Yang, and B.-D. Wang



M = Cu(II), Ni(II) and Zn(II)

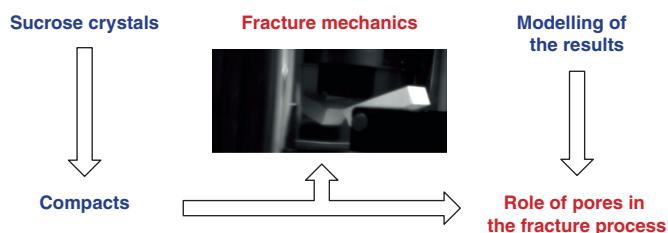


Effect of the Tested Compounds on O₂⁻

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Evaluation of the Role of Pores during Strength Testing in Compacts Made from Different Particle Size Fractions of Sucrose

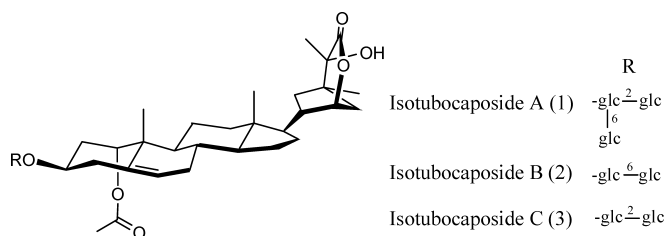
H. Nicklasson and F. Podczeck



pp. 29–33

New C₂₈ Steroidal Glycosides from *Tubocapsicum anomalum*

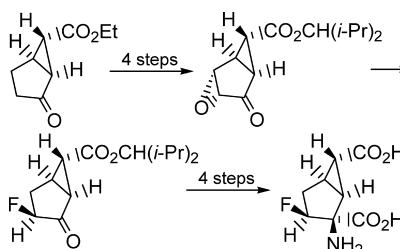
N. Kiyota, K. Shingu, K. Yamaguchi, Y. Yoshitake, K. Harano, H. Yoshimitsu, T. Ikeda, and T. Nohara



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Scalable Synthesis of (+)-2-Amino-3-fluorobicyclo[3.1.0]hexane-2,6-dicarboxylic Acid as a Potent and Selective Group II Metabotropic Glutamate Receptor Agonist

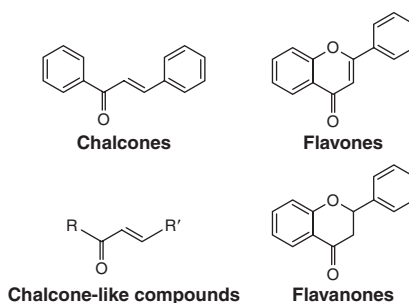
K. Sakagami, T. Kumagai, T. Taguchi, and A. Nakazato



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QSAR Studies on Chalcones and Flavonoids as Anti-tuberculosis Agents Using Genetic Function Approximation (GFA) Method

P. M. Sivakumar, S. K. Geetha Babu, and D. Mukesh

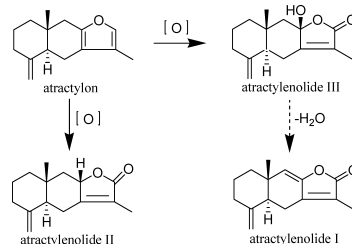


QSAR were developed to describe antimycobacterial activity of a series of chalcones, chalcone-like compounds, flavones and flavanones. The models developed had very good predictive capability ($r^2 > 0.8$ and XV $r^2 > 0.79$).

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Analysis of the Sesquiterpenoids in Processed *Atractylodis Rhizoma*

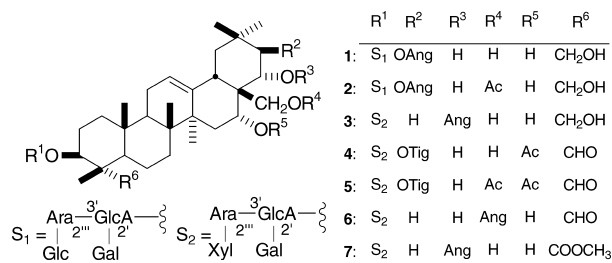
K.-T. Wang, L.-G. Chen, L.-L. Yang, W.-M. Ke, H.-C. Chang, and C.-C. Wang



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Bioactive Saponins and Glycosides. XXV. Acylated Oleanane-Type Triterpene Saponins from the Seeds of Tea Plant (*Camellia sinensis*)

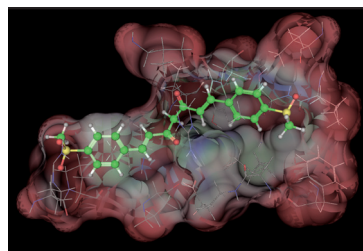
M. Yoshikawa, T. Morikawa, S. Nakamura, N. Li, X. Li, and H. Matsuda



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Synthesis of Novel Curcumin Analogues and Their Evaluation as Selective Cyclooxygenase-1 (COX-1) Inhibitors

N. Handler, W. Jaeger, H. Puschacher, K. Leisser, and T. Erker

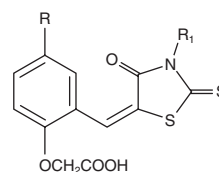


Binding of **3** into active site of 1PGG₂.

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Exploring Structural Feature of Aldose-Reductase Inhibition by 5-[[2-(ω -Carboxyalkoxy)aryl]methylene]-4-oxo-2-thioxothiazolidine Derivatives Employing Fujita–Ban and Hansch Approach

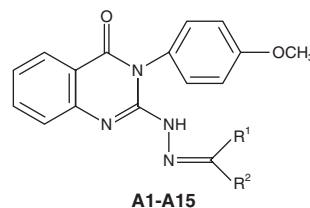
L. K. Soni and S. G. Kaskhedikar



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Synthesis and Pharmacological Evaluation of Some 3-(4-Methoxyphenyl)-2-Substitutedamino-quinazolin-4(3H)-ones as Analgesic and Anti-inflammatory Agents

V. Alagarsamy and S. Murugesan



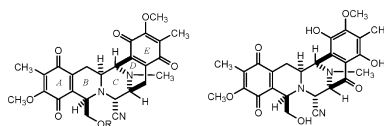
In the present study a new series of 3-(4-methoxyphenyl)-2-substitutedamino-quinazolin-4(3H)-ones were synthesized and evaluation of their analgesic and anti-inflammatory activity studies are described.

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Jorunnamycins A—C, New Stabilized Renieramycin-Type Bistetrahydroisoquinolines Isolated from the Thai Nudibranch

Jorunna funebris

K. Charupant, K. Suwanborirux, S. Amnuoypol, E. Saito, A. Kubo, and N. Saito



Jorunnamycins

A: R=H
C: R=COC₂H₅

Jorunnamycin B

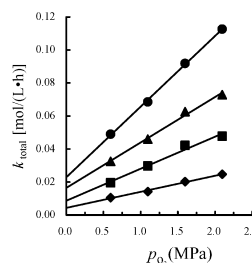


J. funebris along with *Xestospongia* sp.

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Compressed Oxygen in Drug Stability Experiments

Y. Shi, X. Zhan, L. Ma, B. Lin, L. Li, C. Li, and N. He

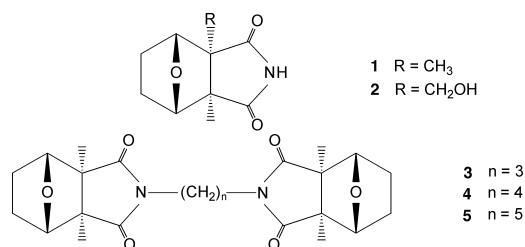


A drug stability experiment accelerated by compressed oxygen was established. The stability of 10% ascorbic acid solution as a model was studied and the kinetic parameters were obtained with the newly established experimental method.

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Cantharimide Dimers from the Chinese Blister Beetle, *Mylabris phalerate* PALLAS

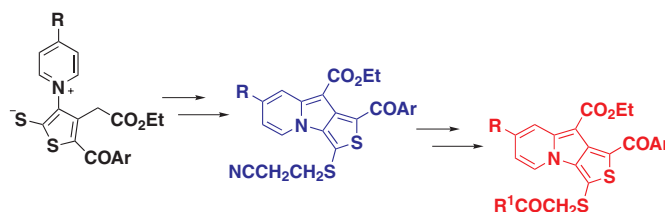
T. Nakatani, K. Jinpo, and N. Noda



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Preparation of New Nitrogen-Bridged Heterocycles. 59. Syntheses and Intramolecular Interactions of 3-(Acylmethylthio)- and 3-[(3-Ethoxycarbonyl-2-propenyl)thio]thieno[3,4-b]indolizine Derivatives

A. Kakehi, H. Suga, and H. Isogai

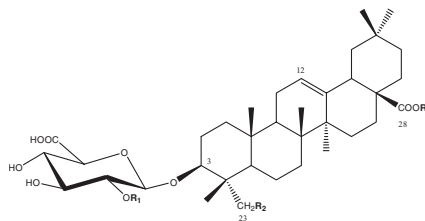


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Notes

Cytotoxic Triterpenoid Saponins from the Roots of *Cephalaria gigantea*

N. Tabatadze, R. Elias, R. Faure, P. Gerken, M. C. De Pauw-Gillet, E. Kemertelidze, A. Chea, and E. Ollivier



Three new saponins were isolated gigantiosides L (1), M (2) and N (3).

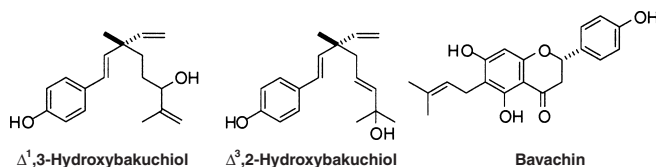
	R ₁	R ₂	R ₃
1	Gal	H	Glc (1s→6) Glc
2	Gal	OH	Glc (1s→6) Glc
3	Rha	OH	Glc (1s→6) Glc

The monodesmosides were tested for their cytotoxic activity against MEL-5 and HL-60 cells.

pp. 102–105

Bioactive Constituents from Chinese Natural Medicines. XX. Inhibitors of Antigen-Induced Degranulation in RBL-2H3 Cells from the Seeds of *Psoralea corylifolia*

H. Matsuda, S. Sugimoto, T. Morikawa, K. Matsuhira, E. Mizuguchi, S. Nakamura, and M. Yoshikawa

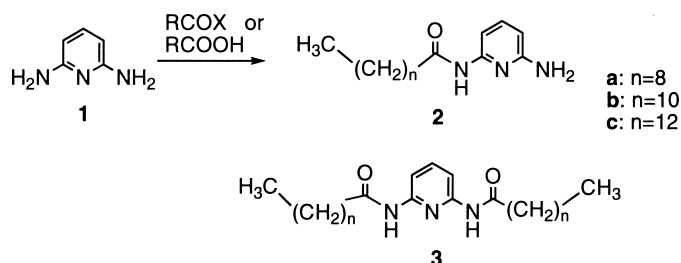


Δ¹,3-Hydroxybakuchiol (IC₅₀=49 μM), Δ³,2-hydroxybakuchiol (69 μM), bavachin (58 μM), which were isolated from the seeds of *Psoralea corylifolia*, showed inhibitory activities against the antigen-induced degranulation in RBL-2H3 cells.

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N-Long-chain Monoacylated Derivatives of 2,6-Diaminopyridine with Antiviral Activity

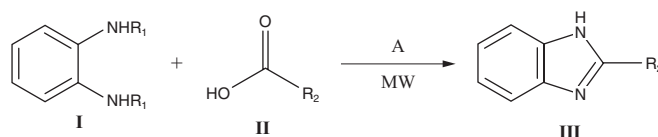
N. Mibu, K. Yokomizo, N. Kashige, F. Miake, T. Miyata, M. Uyeda, and K. Sumoto



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Comparative Studies on Conventional and Microwave Assisted Synthesis of Benzimidazole and Their 2-Substituted Derivative with the Effect of Salt Form of Reactant

R. Dubey and N. S. Hari Narayana Moorthy

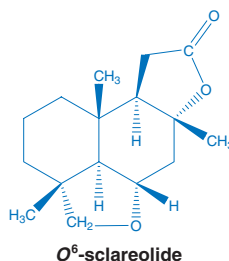


A comparative study of microwave assisted and conventional method for synthesis of 2-substituted Benzimidazole derivatives using dihydrochloride salt of *o*-phenylenediamine in the presence of polyphosphoric acid and the results showed that the microwave assisted synthesis increases the yield and reduced the reaction completion time.

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Novel Microbial Transformations of Sclareolide

A. Ata, L. J. Conci, J. Betteridge, I. Orhan, and B. Sener

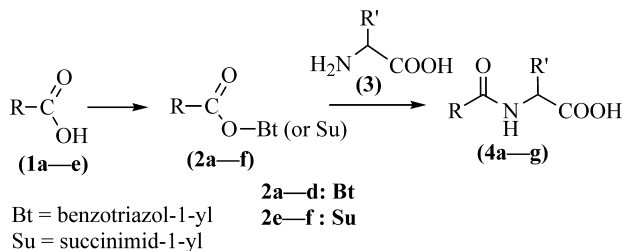


Fungal catalysis of sclareolide (1) using *Cunninghamella blakesleeana* afforded O⁶-sclareolide (2), 3β,6α-dihydroxysclareolide (3), 9-hydroxysclareolide (4). Fermentation experiment with *C. echinulata* yielded two new compounds, 5-hydroxy-sclareolide (8), and 7β-hydroxysclareolide (9).

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A Conventional New Procedure for *N*-Acylation of Unprotected Amino Acids

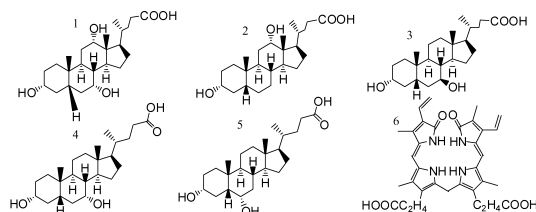
F. Fujisaki, M. Oishi, and K. Sumoto



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Comparative Study on Major Bioactive Components in Natural, Artificial and *in-Vitro* Cultured *Calculus Bovis*

S.-K. Yan, Y.-W. Wu, R.-H. Liu, and W.-D. Zhang

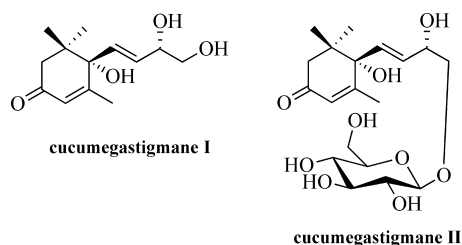


HPLC/UV/ELSD method was established to determine five bile acids (1–5) and bilirubin (6), and was applied to comparatively study the quality variations of natural, artificial and *in vitro* cultured *Calculus Bovis*.

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Two New Megastigmanes from the Leaves of *Cucumis sativus*

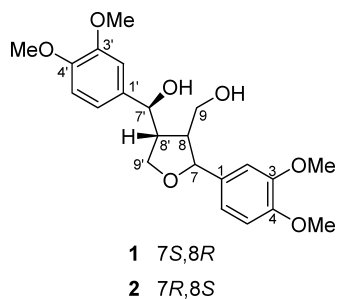
H. Kai, M. Baba, and T. Okuyama



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Two New Stereoisomers of Tetrahydrofuranoid Lignans from the Flower Buds of *Magnolia fargesii*

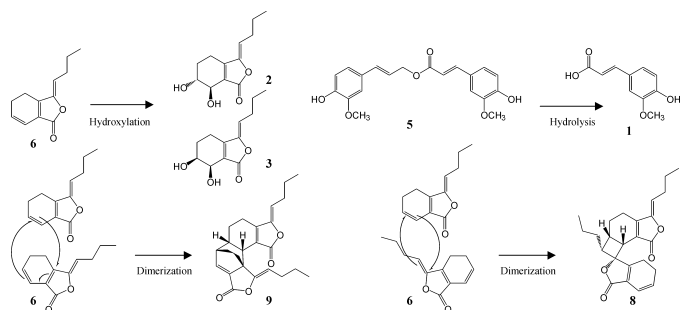
J. Lee, D. Lee, D. S. Jang, J.-W. Nam, J.-P. Kim, K. H. Park, M. S. Yang, and E.-K. Seo



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Post-Harvest Alteration of the Main Chemical Ingredients in *Ligusticum chuanxiong* HORT. (*Rhizoma Chuanxiong*)

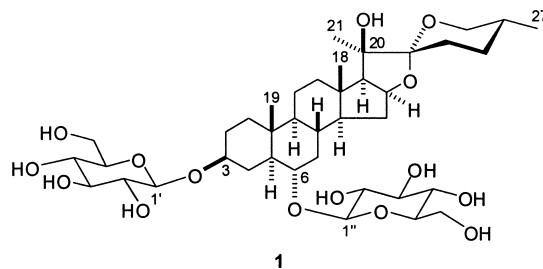
S.-L. Li, R. Yan, Y.-K. Tam, and G. Lin



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Steroidal Glycosides from *Agave utahensis*

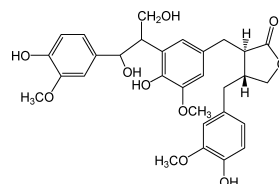
A. Yokosuka and Y. Mimaki



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Lignans from *Arctium lappa* and Their Inhibition of LPS-Induced Nitric Oxide Production

S. Y. Park, S. S. Hong, X. H. Han, J. S. Hwang, D. Lee, J. S. Ro, and B. Y. Hwang

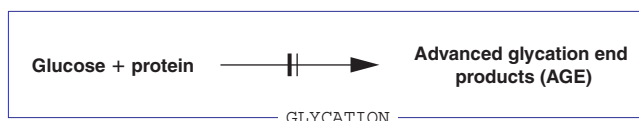


A new butyrolactone sesquigignan, isolappaol C, together with four known lignans were isolated from the seeds of *Arctium lappa*. The nitric oxide inhibitory effects on the LPS-induced RAW264.7 cells were also evaluated.

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Chemical Constituents of the Style of *Zea mays* L. with Glycation Inhibitory Activity

R. Suzuki, M. Iijima, Y. Okada, and T. Okuyama

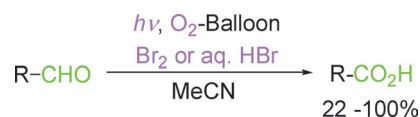


The isolates of style of *Zea mays* inhibited glycation.

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Photo-Oxidation of Aldehydes with Molecular Oxygen in the Presence of Catalytic Bromine or Hydrobromic Acid

S. Hirashima and A. Itoh



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About the cover: Two new stereoisomers, 7*S*,8*R*,7'*S*,8'*R*- (**1**) and 7*R*,8*S*,7'*S*,8'*R*-3,4,3',4'-tetramethoxy-9,7'-dihydroxy-8,8',7,0,9'-lignan (**2**) were isolated from the dried flower buds of *Magnolia fargesii* CHENG (Magnoliaceae), which is well-known as Xinyi. To solve the absolute configuration at C-7' of **1** and **2**, each was treated with (*S*)- and (*R*)-MTPA-Cl using the Mosher's esterification method affording the (*R*)- and (*S*)-MTPA ester derivatives, respectively, of **1** and **2**. The absolute configuration at C-7' of **1** was determined as *S* according to the values of $\Delta\delta$ ($\delta_S - \delta_R$). All other chiral centers were determined using the ROESY NMR technique. See the article by Lee *et al.* on page 137 of this issue.