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REVIEW

Organic Stereochemistry

Part 3. Other Stereogenic Elements: Axes of Chirality, Planes of Chirality, Helicity, and (*E,Z*)-Diastereoisomerism

B. Testa

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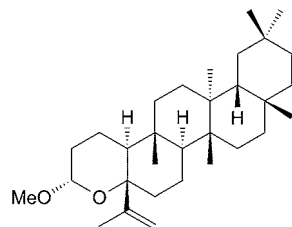
**Part 3. Other Stereogenic Elements:
Axes of Chirality, Planes of Chirality,
Helicity, and (*E,Z*)-Diastereoisomerism**

- 3.1. Axes of Chirality**
 - 3.2. Planes of Chirality**
 - 3.3. Helicity**
 - 3.4. Comparing the Stereogenic Elements**
 - 3.5. (*E,Z*)-Diastereoisomerism
(Stereoisomerism about Double Bonds)**
-

Torreyanoxane, a New 3,4-Secoglutanane Triterpenoid Isolated from the Pulp of *Torreya nucifera*

C.-M. Cao, Y.-B. Wu, R.-X. Guo, M. Dong, F. Sauriol, C.-H. Huo, Q.-W. Shi*, T. Yamada, H. Kiyota*, Y.-C. Gu, B. Cong*

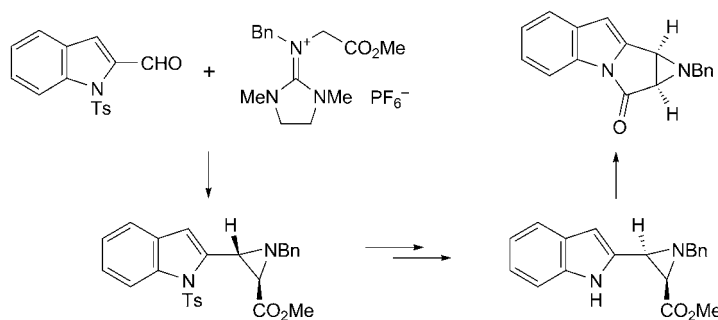
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Synthesis of the Aziridinomitosene Skeleton by Application of Guanidinium Ylide-Mediated Aziridination

H. Kojima, C. Takahata, D. Lemin, M. Takahashi, T. Kumamoto, W. Nakanishi, N. Suzuki, T. Ishikawa*

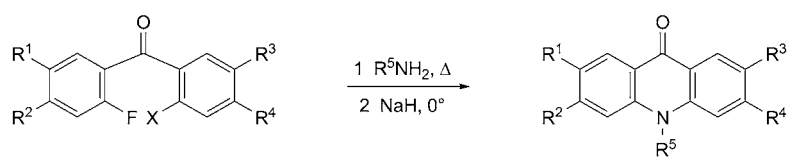
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Synthesis of 10-Aryl- and 10-(Arylmethyl)acridin-9(10H)-ones via the Reaction of (2-Fluorophenyl)(2-halophenyl)methanones with Benzenamines and Arylmethanamines

K. Kobayashi*, K. Nakagawa, S. Yuba, T. Komatsu

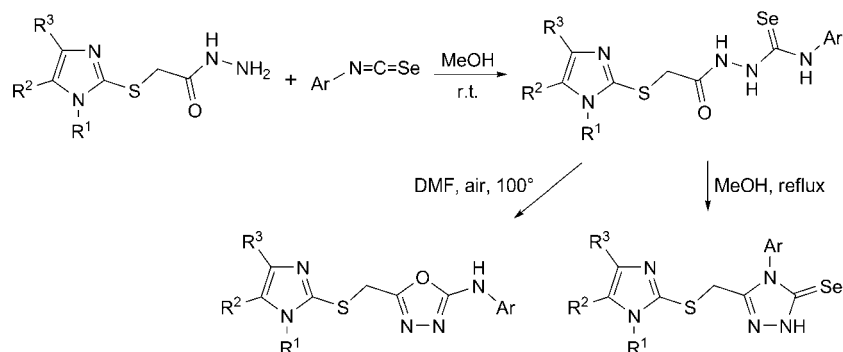
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R¹, R² = H, Cl; R³ = H, Cl, MeO; R⁴ = H, MeO;
X = Cl, Br; R⁵ = aryl, arylmethyl

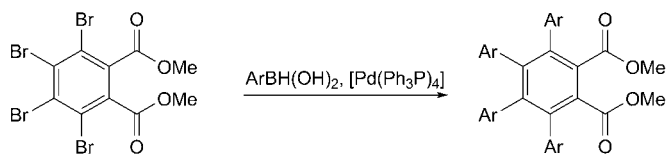
New Selenosemicarbazides Derived from Imidazole-Based Carbohydrazides

A. M. Pieczonka, K. Ciepielowski, Z. Cebulska, G. Mlostoń*, A. Linden, H. Heimgartner* 397



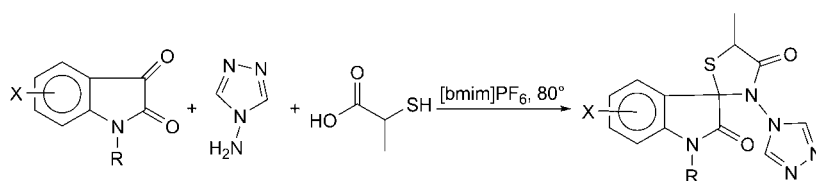
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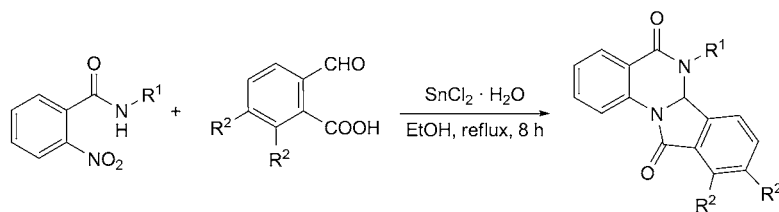
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Synthesis of Isoindolo[2,1-*a*]quinazoline-5,11-dione Derivatives via the Reductive One-Pot Reaction of *N*-Substituted 2-Nitrobenzamides and 2-Formylbenzoic Acids

*M. Mahdavi, R. Najafi, M. Saeedi, E. Alipour, A. Shafiee, A. Foroumadi**

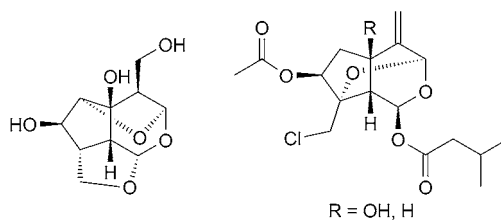
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Iridoids from the Roots of *Valeriana jatamansi*

*Y.-D. Li, Z.-Y. Wu, H.-M. Li, H.-Z. Li, R.-T. Li**

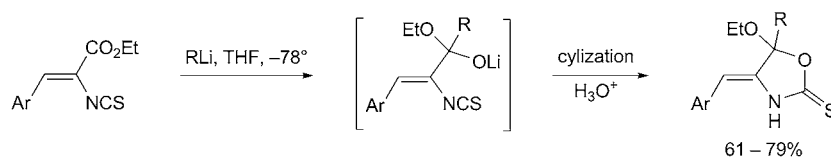
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Synthesis of (4*Z*)-4-(Arylmethylidene)-5-ethoxy-1,3-oxazolidine-2-thiones by the Reaction of Ethyl (2*Z*)-3-Aryl-2-isothiocyanatoprop-2-enoates with Organolithium Compounds

K. Kobayashi, K. Ezaki, H. Hashimoto*

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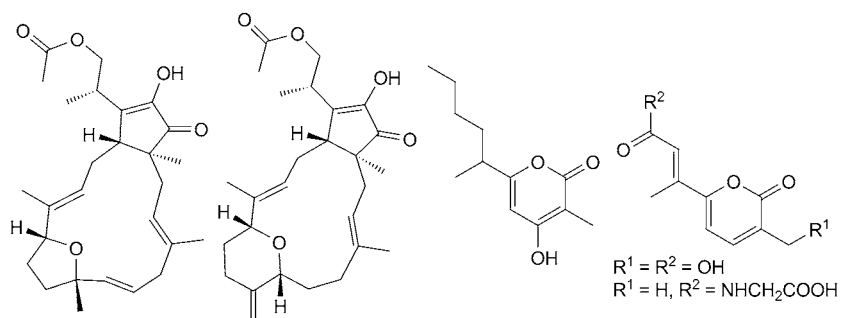


Ar = Ph, 4-Me-C₆H₄, 4-Cl-C₆H₄, 4-MeO-C₆H₄, thiophen-2-yl
R = Me, ^tBu, Ph, thiophen-2-yl, CH₂CO₂Et, CH₂CO₂^tBu

Sesterterpenes and 2*H*-Pyran-2-ones (= α -Pyrones) from the Mangrove-Derived Endophytic Fungus *Fusarium proliferatum* MA-84

D. Liu, X.-M. Li, C.-S. Li, B.-G. Wang*

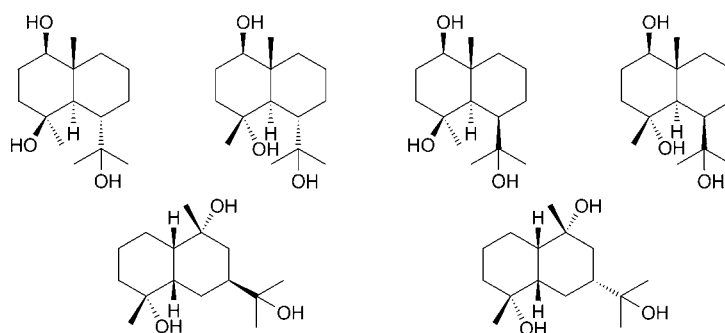
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Six Novel Eudesmane-Like Sesquiterpenes from *Illicium spathulatum*

X.-J. Dong*, S.-D. Luo

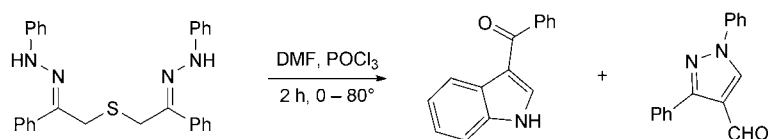
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Temperature-Dependent Product Selectivity in the *Vilsmeier–Haack* Reaction on Bis(phenylhydrazones) of Bis(arylmethyl) Sulfides (= 1,1'-[Thiobis(methylene)]bis[arylmethanone] Bis(2-phenylhydrazones)): Synthesis of 3-Aroylindoles (= Aryl-(1*H*-indol-3-yl)methanones)

N. Paul, S. Muthusubramanian*

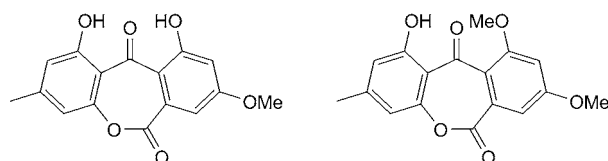
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Two New Secoanthraquinone Derivatives from the Marine-Derived Endophytic Fungus *Aspergillus wentii* EN-48

H.-F. Sun, X.-M. Li, L.-H. Meng, C.-M. Cui, S.-S. Gao, C.-S. Li, B.-G. Wang*

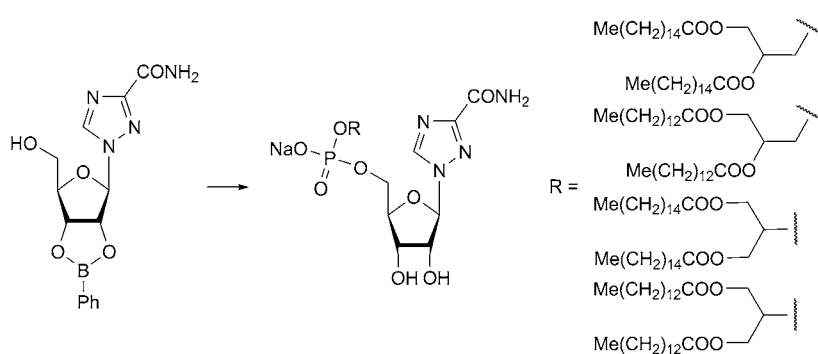
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Synthesis of Phospholipid–Ribavirin Conjugates

I. A. Oleynikova, T. I. Kulak*, D. A. Bolibrukh, E. N. Kalinichenko

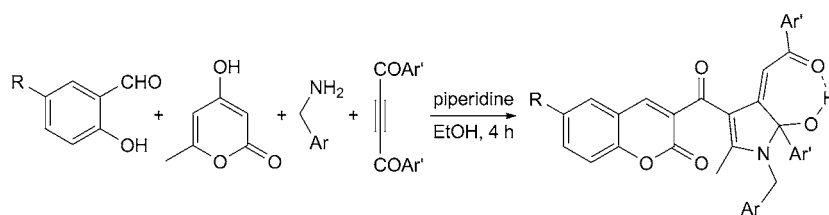
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A Novel and Efficient Synthesis of 3-[(4,5-Dihydro-1H-pyrrol-3-yl)carbonyl]-2H-chromen-2-ones (= 3-[(4,5-Dihydro-1H-pyrrol-3-yl)carbonyl]-2H-1-benzopyran-2-ones)

A. Alizadeh*, R. Ghanbaripour

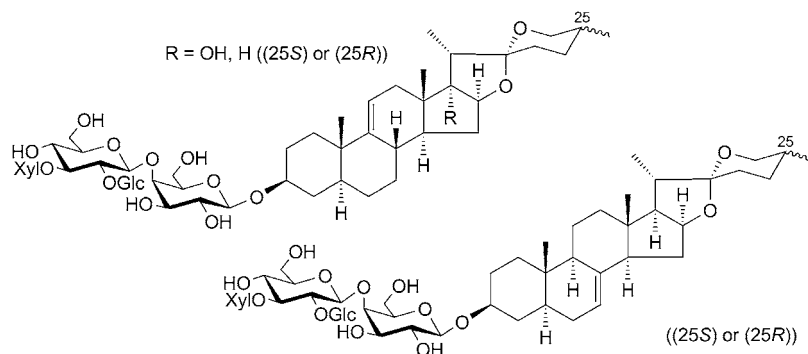
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Steroidal Saponins from the Rhizomes of *Smilacina henryi*

X. Zhang, Y.-F. Su*, L. Chen, X. Huang, S.-L. Yan, X. Chai, X.-M. Gao

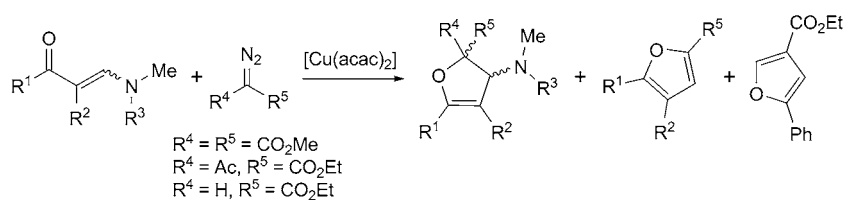
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Reactions of Enaminones with Diazocarbonyl Compounds

F. Ş. Güngör*, N. Hancıoğlu, O. Anaç*

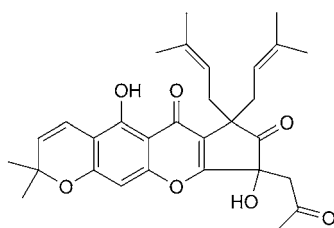
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A Novel Xanthone from *Garcinia oligantha*

X.-M. Gao*, M.-Z. Cui, T. Yu, Q.-F. Hu, J.-X. Pu, X. Du, T.-C. Liu, K. Q. Luo*

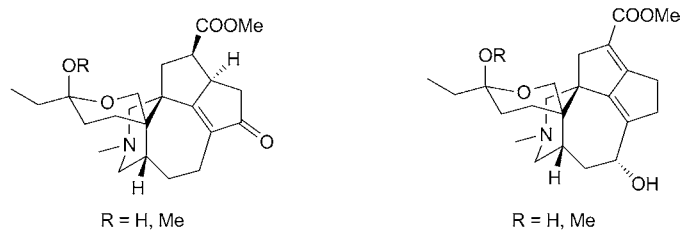
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Alkaloids from the Twigs and Leaves of *Daphniphyllum macropodum*

C.-R. Zhang, H.-B. Liu, S.-H. Dong, Y. Wu, J.-M. Yue*

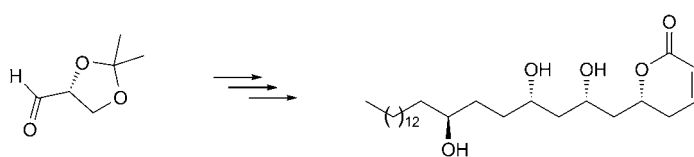
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Stereoselective Total Synthesis of Passifloricin A

C. R. Reddy, B. Veeranjeyulu, S. Nagendra, B. Das*

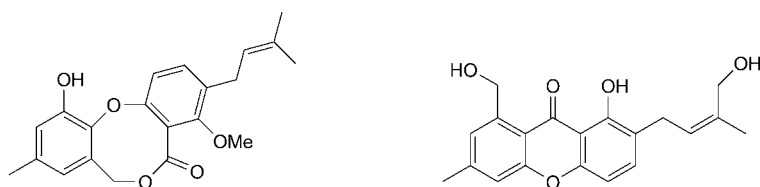
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New Cytotoxic Metabolites from the Marine-Derived Fungus *Penicillium* sp. ZLN29

H. Gao, L. Zhou, D. Li, Q. Gu, T.-J. Zhu*

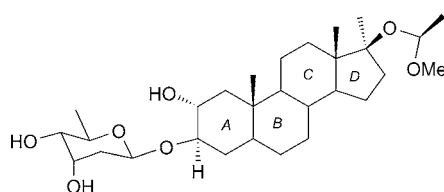
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Androstane-Type Steroidal Glycoside from the Roots of *Asparagus curillus* BUCH.-HAM. ex ROXB.

D. K. Semwal*, R. B. Semwal*, G. Singh

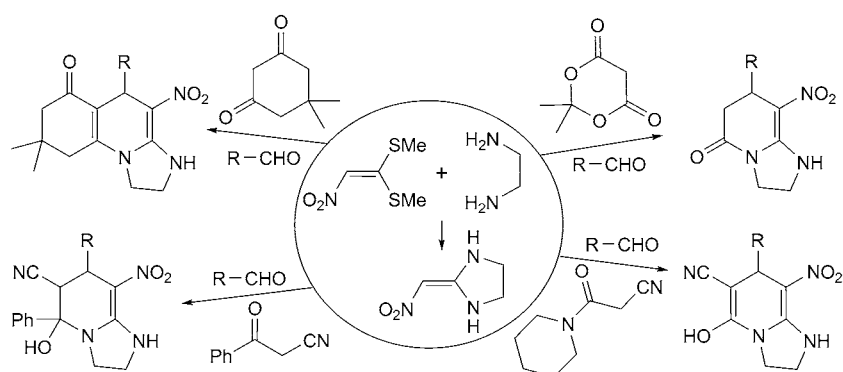
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An Efficient One-Pot Four-Component Synthesis of Functionalized Imidazo[1,2-*a*]pyridines

S. Kazemi Movahed, M. Dabiri*, A. Bazgir

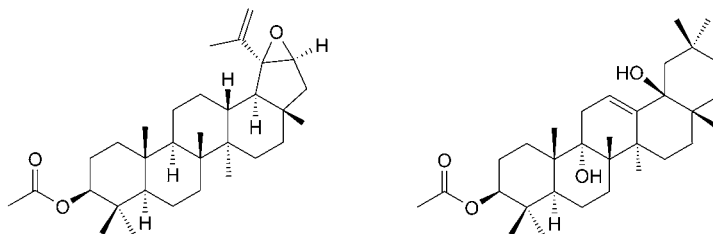
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Two New Pentacyclic Triterpenes from *Abelmoschus esculentus*

Y. Zhou, X. Jia, J. Shi, Y. Xu, L. Jing, L. Jia*

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