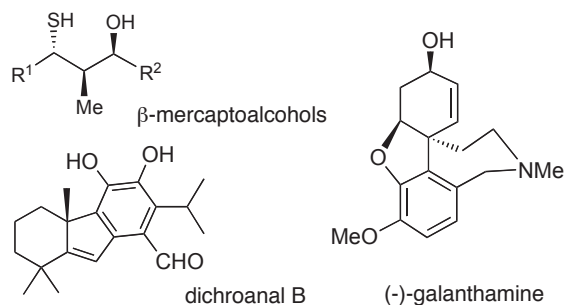


■ REVIEWS

1061 Development of Novel Asymmetric Reactions and Their Application to the Synthesis of Natural Products

Manabu Node,* Tetsuya Kajimoto, and Minoru Ozeki



Asymmetric Synthesis

Asymmetric Crystallization

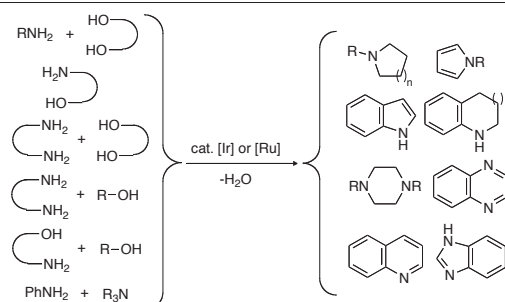
Michael Addition

Meerwein-Ponndorf-Verley Reduction

Heck Reaction

1093 Recent Progress of New Catalytic Synthetic Methods for Nitrogen Heterocycles Based on Hydrogen Transfer Reactions

Ryohei Yamaguchi,* Ken-ichi Fujita, and Mingwen Zhu



Nitrogen Heterocyclic Compound

Hydrogen Transfer Reaction

Metal Catalyzed Reaction

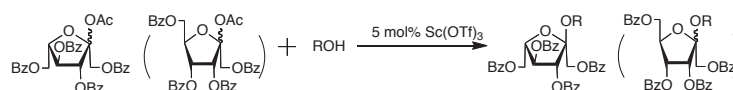
Synthetic Method

Environmentally Benign Reaction

■ COMMUNICATIONS

1141 L-Fructo- and D-Psicofuranosylation Reactions Catalyzed by Scandium Triflate

Takashi Yamanoi,* Toshiaki Ishiyama, Yoshiki Oda, Sho Matsuda, and Mikio Watanabe



Glycosylation

L-Fructofuranosylation

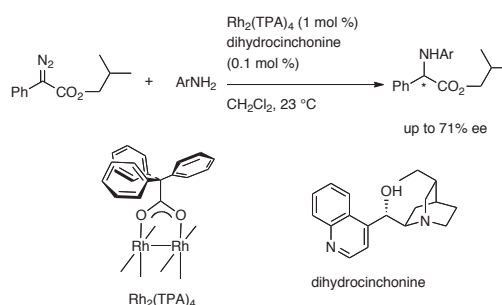
D-Psicofuranosylation

L-Fructose

D-Psicose

1149 Asymmetric Intermolecular N-H Insertion Reaction of Phenylidiaoacetates with Anilines Catalyzed by Achiral Dirhodium(II) Carboxylates and Cinchona Alkaloids

Hiroaki Saito,* Taketo Uchiyama, Muneharu Miyake, Masahiro Anada, Shunichi Hashimoto, Tohru Takabatake, and Shinichi Miyairi



Asymmetric N-H Insertion

Dirhodium(II) Complex

Phenylidiaoacetate

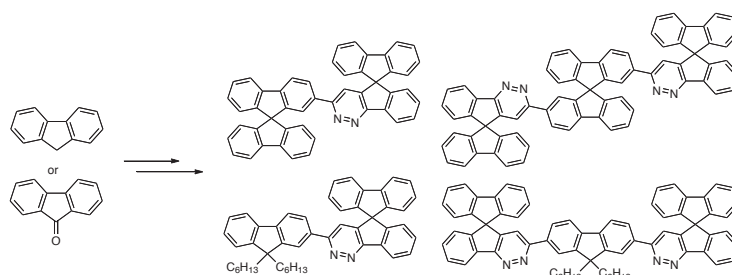
Cinchona Alkaloid

Carbene

■ PAPERS

1157 Synthesis of Diaza-Analogue of Fluorenone and Spirobifluorene

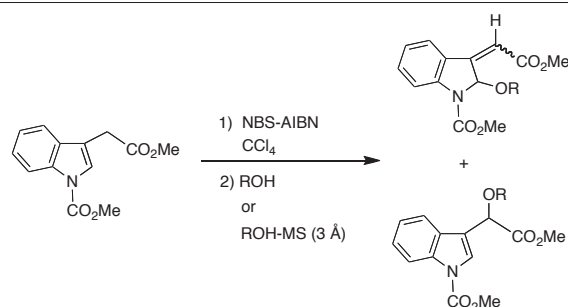
Guo-Hong Wu, Qian-Cai Liu,* and Jie Tang



Spirobifluorene Diazaspirobifluorene Diazafluorenone Synthesis Crystal Structure

1169 Regioselective Synthesis of 3-Indolyl(alkoxy)acetates

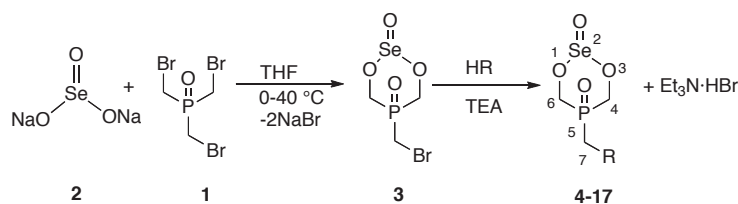
Oscar R. Suárez-Castillo,* Myriam Meléndez-Rodríguez, Indira C. Cano-Escudero, Sandra Luz De Ita-Gutiérrez, Maricruz Sánchez-Zavala, Martha S. Morales-Ríos, and Pedro Joseph-Nathan



2-Alkoxyindolenine C8-Alkoxyindolylacetate Indole Bromination Regioselective Synthesis Molecular Sieves

1183 Synthesis, Spectral Characterization and Antimicrobial Activity of Novel 5-[(Substituted Methyl)-5-oxo-1,3,2λ⁴,5λ⁵-dioxaseleno Phosphinan-2-ones

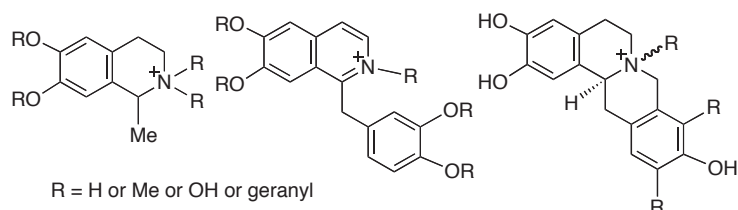
S. Subba Reddy, B. Satheesh Krishna, V. Koteswara Rao, and C. Naga Raju*



Sodium Selenite Tris(bromomethyl)phosphine Oxide Amino Acid Ester Antibacterial Activity Antifungal Activity

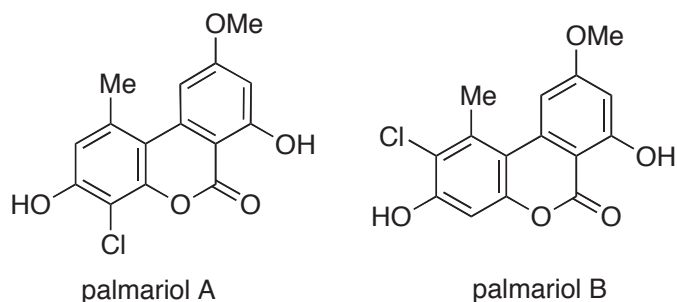
1193 Geranyl Derivatives of Isoquinoline Alkaloids Show Increased Biological Activities

Yumi Nishiyama, Kinuko Iwasa,* Suguru Okada, Sousuke Takeuchi, Masataka Moriyasu, Miyoko Kamigauchi, Junko Koyama, Atsuko Takeuchi, Harukuni Tokuda, Hye-Sook Kim, Yusuke Wataya, Kazuyoshi Takeda, Yi-Nan Liu, Pei-Chi Wu, Kenneth F. Bastow, Toshiyuki Akiyama, and Kuo-Hsiung Lee


 Isoquinoline Alkaloid *N*- or *O*-Geranylation Antimicrobial Activity Cytotoxicity

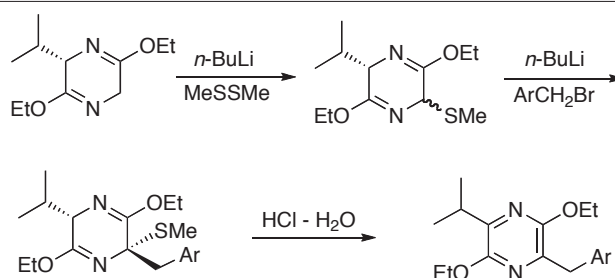
1231 Palmariols A and B, Two New Chlorinated Dibenzo- α -pyrones from Discomycete *Lachnum palmae*

Takunori Matsumoto, Tsuyoshi Hosoya, and Hideyuki Shigemori*


Lachnum palmae Discomycete Chlorinated Dibenzo- α -pyrone Palmariol A Palmariol B

1239 Synthesis of (3*S*)-2,5-Diethoxy-3,6-dihydro-3-isopropyl-6-methylsulfanylpyrazines and Stereoselectivity in Alkylation of the Anions

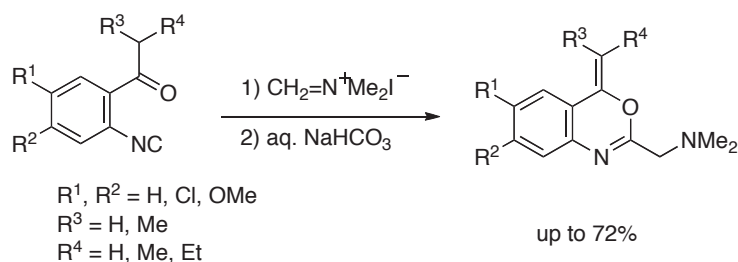
Yoshihide Usami,* Masao Arimoto,* Chisaka Kioka, Masako Yamanaka, Naoko Matsuda, and Hayato Ichikawa



Sulfur Containing Diketopiperazine Synthesis Schöllkopf's Bislactim Ether Stereoselectivity Pyrazine

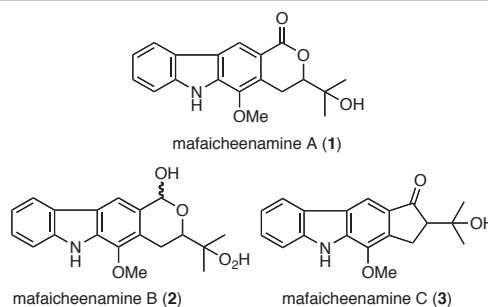
NOTES
1253 Synthesis of 4-Alkylidene-2-(dimethylamino)methyl-4*H*-3,1-benzoxazines by the Reaction of Alkyl 2-Isocyanophenyl Ketones with Eschenmoser's Salt

Kazuhiro Kobayashi,* Yuta Okamura, Shuhei Fukamachi, and Hisatoshi Konishi


 4*H*-3,1-Benzoxazine Isocyanide Isocyano Ketone Eschenmoser's Salt Iminium Salt

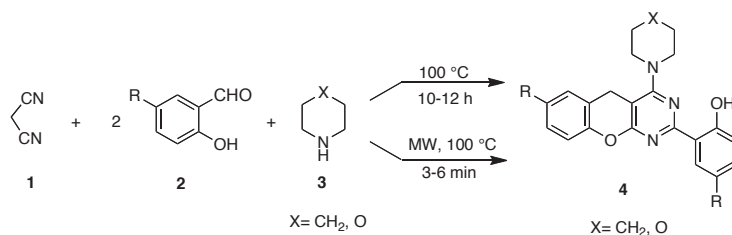
1261 Antitumoral Alkaloids from *Clausena lansium*

Wisanu Maneerat and Surat Laphookhieo*


Clausena lansium Rutaceae Carbazole Alkaloid Mafaicheenamines A-C Antitumor Activity

1271 An Efficient One-Pot and Solvent-Free Synthesis of Chromeno[2,3-*d*]pyrimidine Derivatives: Microwave Assisted Reaction

Afsaneh Zonouzi,* Mojtaba Biniiaz, Roghieh Mirzazadeh, Merzieh Talebi, and Seik Weng Ng


 Chromono[2,3-*d*]pyrimidine Multicomponent Reaction One-Pot Synthesis Solvent-Free Synthesis [1,5]H Shift Microwave Assisted Reaction

■ NEW HETEROCYCLIC NATURAL PRODUCTS

- 1279 Polyketides
 - 1283 Aromatics
 - 1296 Terpenes
 - 1311 Steroids
 - 1313 Alkaloids
 - 1324 Miscellaneous
-

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 1327 Polyketides
 - 1330 Aromatics
 - 1333 Terpenes
 - 1336 Steroids
 - 1337 Alkaloids
 - 1344 Miscellaneous
-

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To This Issue**

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