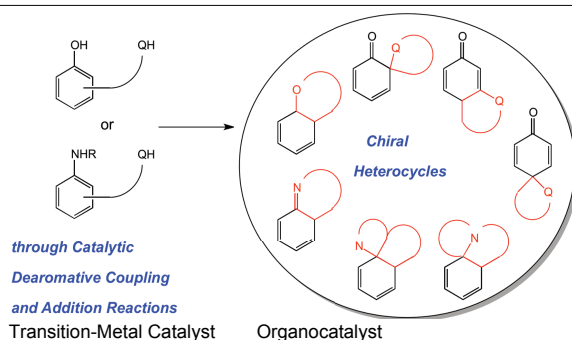


■ REVIEW

1489 **Asymmetric Construction of Heterocycles via Dearomative Coupling and Addition Reactions of Phenol and Aniline Derivatives**

Kotaro Kikushima,* Hideyasu China, and Toshifumi Dohi*

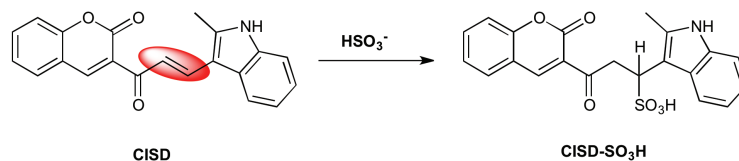


Dearomatization Enantioselective Bond Formation Phenol Derivative Transition-Metal Catalyst Organocatalyst

■ PAPERS

1513 **A Highly Selective Fluorescence-Enhanced Probe for the Rapid Detection of SO₂ Derivatives and Its Bio-Imaging in Living Cells**

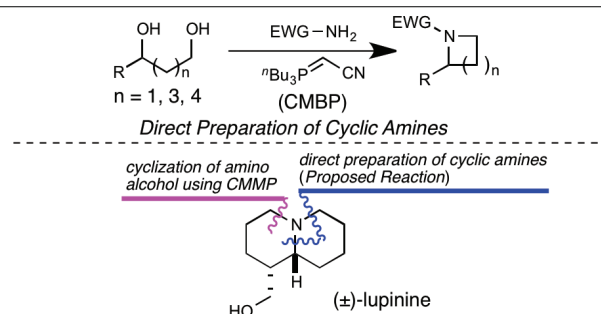
Yaogen Zhou, Yiwei Zhou, Hongying Wang,* and Baoquan Chen*



Fluorescence-Enhanced Probe Sulfur Dioxide Derivative Cell Imaging

1525 **Piperidine and Azetidine Formation by Direct Cyclization of Diols with *N*-Nonsubstituted Sulfonamide under the Mitsunobu Conditions Utilizing (Cyanomethylene)-tributylphosphorane (CMBP) and Its Application to the Synthesis of Lupinine**

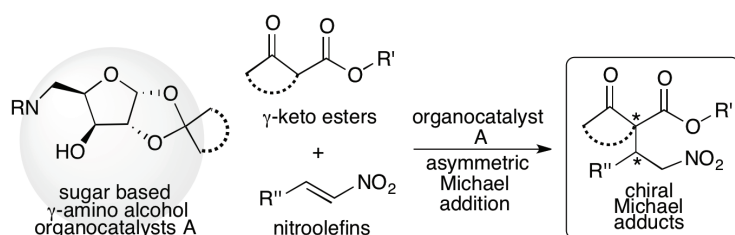
Hiroto Kaku,* Yuhei Sonoda, Hideyuki Hishida, Yuri Taniguchi, Akiko Kubo, Takumi Hamaguchi, Mitsuyo Horikawa, Makoto Inai, Kei Kitamura, and Tetsuto Tsunoda*



Mitsunobu Reaction (Cyanomethylene)tributylphosphorane Cyclic Amine Quinolizidine Alkaloid

1536 **Sugar Based γ -Amino Alcohol Organocatalyst for Asymmetric Michael Addition of β -Keto Esters with Nitroolefins**

Divakar Ganesan, Madhu Chennapuram, Zubeda Begum, Chigusa Seki, Yuko Okuyama, Eunsang Kwon, Koji Uwai, Michio Tokiwa, Suguru Tokiwa, Mitsuhiro Takeshita, and Hiroto Nakano*

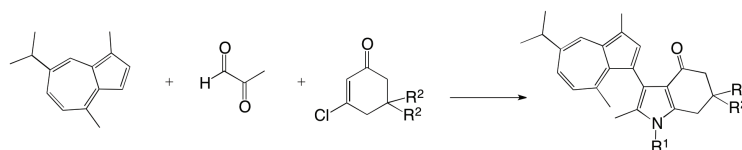


γ -Amino Alcohol β -Keto Ester Xylofuranose Organocatalyst Michael Addition

■ SHORT PAPERS

1547 **One-Pot Synthesis of 3-(Guaiazulen-3-yl)dihydro-1*H*-indol-4(5*H*)-ones via Domino Reaction**

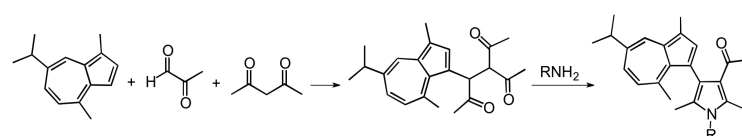
Lu Zhang, Dao-Lin Wang,* Jin-Juan Xing, and Lin Liu



3-(Guaiazulen-1-yl)dihydro-1*H*-indol-4(5*H*)-one Guaiazulene Methylglyoxal Enaminone Domino Reaction

1555 **Facile Synthesis of (Guaiazulen-1-yl)-1*H*-pyrroles via Paal-Knorr Reaction**

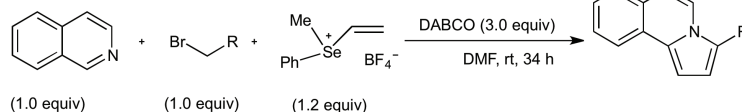
Lu Zhang, Dao-Lin Wang,* Jin-Juan Xing, and Lin Liu



(Guaiazulen-1-yl)-1*H*-pyrrole Guaiazulene Methylglyoxal Acetylacetone Paal-Knorr Reaction

1563 **One-Pot Synthesis of Pyrrolo[2,1- α]isoquinolines via Tandem Reactions of Vinylselenonium Salt, 2-Bromoethanones, and Isoquinoline**

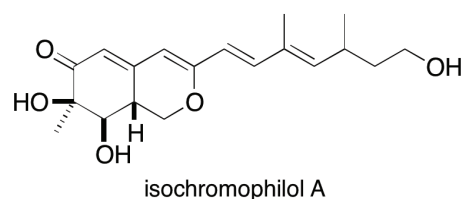
Qi Sun, Minghong Liao, Yan Zhao, Yunxia Li, Shanshan Liu, Deshou Mao,* and E Tang*



Synthesis Vinylselenonium Salt Pyrrolo[2,1- α]isoquinoline One-Pot Synthesis Cycloaddition Reaction

1574 **Isochromophilol A, a New Azaphilone Isolated from *Penicillium* sp. RO369, a Leaf Litter Inhabiting Fungus from *Tsuga diversifolia***

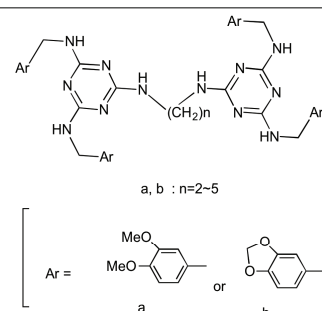
Kan'ichiro Ishiuchi,* Dai Hirose, Yoriko Takahashi, Ryu Miyagawa, Kohei Watanabe, and Susumu Kitanaka*



Penicillium sp. RO369 Azaphilone Isochromophilol A Anti-MRSA Activity

1580 **Some Hybrid Linker Mode C₂-Symmetrical 1,3,5-Triazine Derivatives and Their Biological Evaluation**

Nobuko Mibu, Makoto Furutachi, Yusuke Inoue, Yuka Fujita, Yumemi Matsumoto, Yuki Kawano, Syoko Tomonaga, Junko Matsuyama, Kanae Yamada, Ryo Sato, Kazumi Yokomizo, Jian-Rong Zhou, Shunsuke Shimomura, Kaori Ota, and Kunihiro Sumoto*



1,3,5-Triazine C₂-Symmetrical Multivalent Molecule Methylene Linker Anti-HSV-1 Activity

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 1589 Polyketides
 - 1590 Aromatics
 - 1591 Terpenes
 - 1592 Steroids
 - 1593 Alkaloids
 - 1601 Miscellaneous
-

■ BRUSH UP YOUR HETEROCYCLES

- 1603 Brush Up Your Heterocycles
-

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