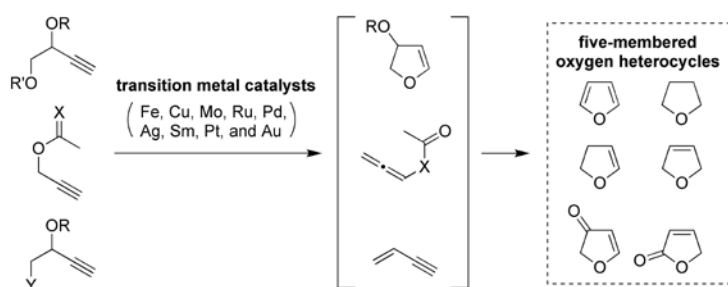


## ■ REVIEW

- 931 **Transition Metal-Catalyzed Intramolecular Cyclization of Propargyl Alcohols and Their Derivatives for the Synthesis of Highly Substituted Five-Membered Oxygen Heterocycles**

Masahiro Egi\* and Shuji Akai\*

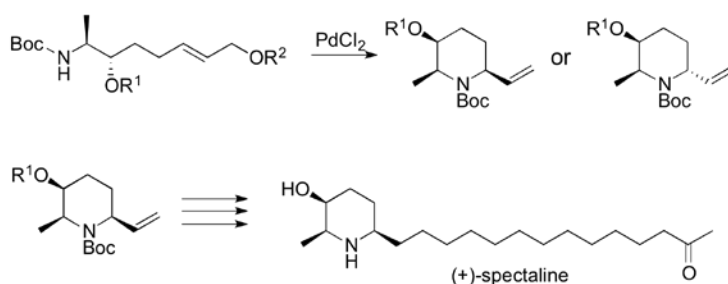


Propargyl Alcohol    Furan    Furanone    Transition Metal    Intramolecular Cyclization Reaction

## ■ PAPERS

- 959 **Divergent Synthesis of 2,6-Disubstituted Piperidine Alkaloid, (+)-Spectaline by Palladium-Catalyzed Cyclization**

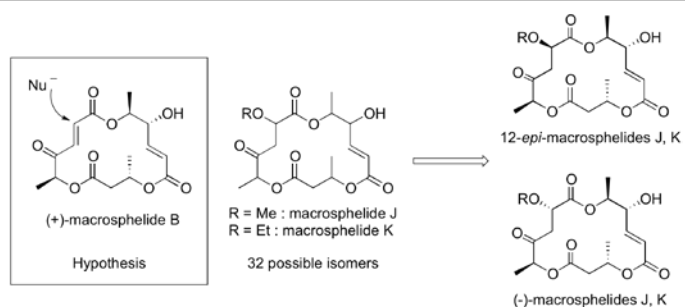
Masatomo Katsuyama, Masahiro Furuta, Kazuya Kobayashi, Kenta Teruya, Hidefumi Makabe, Kenichi Akaji, and Yasunao Hattori\*



Piperidine    Natural Product    Stereoselective Synthesis

- 970 **Synthesis and Synthesis-Based Structural Elucidation of (-)-Macrosphelides J and K**

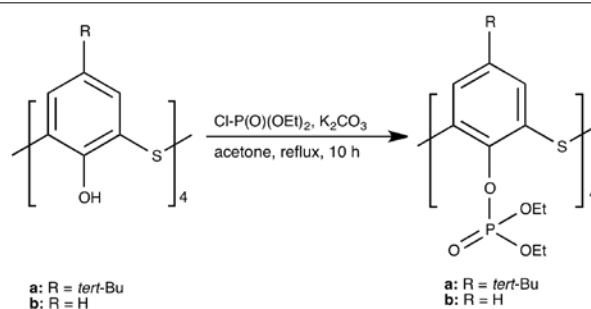
Hongchan An, Seung-Hee Kim, Heegy Kim, Kyeojin Kim, Jaehoon Sim, Jaebong Jang, Seung-Mann Paek, Young-Ger Suh, and Hwayoung Yun\*



Macrosphelides J and K    Structural Prediction and Elucidation    Molecular Modeling    Olefin-Nitrile Oxide Cycloaddition    Biosynthetic Pathway

- 989 **Synthesis, X-Ray Structure and Metal Extracton Abilities of New Diethyl Phosphate Modified Thiacalix[4]arene**

Kunda Uma Maheswara Rao, Takashi Kimuro, Manabu Yamada, Yoshihiko Kondo, and Fumio Hamada\*



Thiacalixarene Derivative    Crystal Structure    Metal Extraction Ability

## ■ SHORT PAPERS

**1001 Palladium-Catalyzed Suzuki Coupling towards 2-Amino-1,8-naphthyridines**

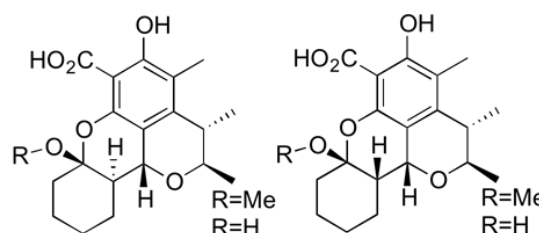
Hangming Ge and Qiancai Liu\*



Synthesis    2-Amino-6-aryl-1,8-naphthyridine    Pd-132 Catalyst    Suzuki Cross Coupling Reaction    Aza-Heterocycle

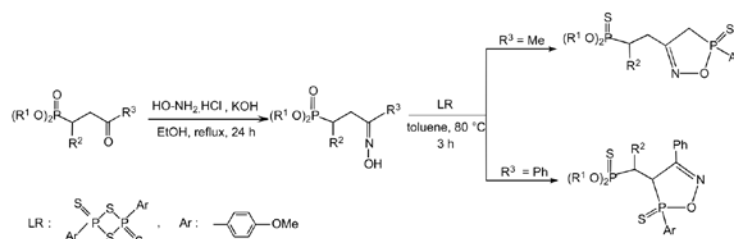
**1007 Four New Penicitrinols and Two New Penicillenols from the Marine-Derived Fungus *Penicillium citrinum***

Li Chen,\* Tong Zhou, Yang-Yang Zhao, Mei-Wei Gong, Qi-Wen Xia, Min-Gang Ying, Qiu-Hong Zheng, Qin-Ying Liu, and Qi-Qing Zhang\*


*Penicillium citrinum*    Penicitrinol    Penicillenol    Marine-Derived Fungus    Cytotoxicity

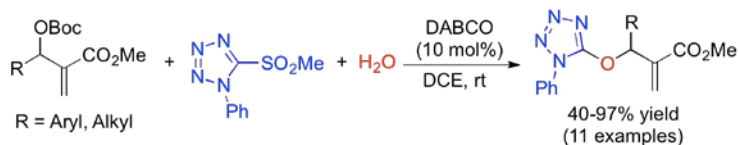
**1017 Reaction of Lawesson's Reagent with  $\gamma$ -Phosphonyloximes: Synthesis of Novel 1,2,5-Oxazaphospholine Derivatives**

Aymen Wahbi and Soufiane Touil\*


 Lawesson's Reagent     $\gamma$ -Phosphonyloxime     $\gamma$ -Ketophosphonate    Oxazaphospholine    Phosphorus Heterocycle

**1028 Organocatalytic Regioselective Three-Component, One-Pot Allylic Substitution of Morita-Baylis-Hillman Carbonates**

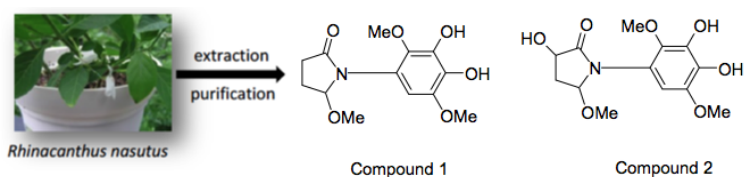
Lin Jiang,\* Jiang-Feng Zhou, Fei Li, Yong-Gen Li, Hong-Li Li, Yong-Ming Chuan, and Ming-Long Yuan\*



Morita-Baylis-Hillman Carbonate    Organocatalysis    Allylic Substitution    Lewis Base    Tetrazole

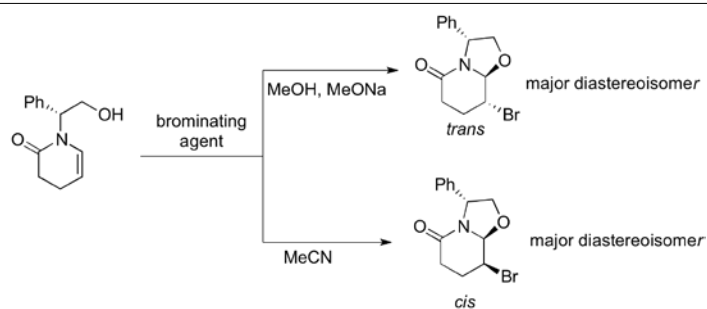
**1036 New Anti-Oxidative Compounds from *Rhinacanthus nasutus***

Ryuichiro Suzuki, Hiroshi Sakagami, and Yoshiaki Shirataki\*


*Rhinacanthus nasutus*    Pyrrolidinone    Antioxidant

**1042 Diastereospecific Etherification and Diastereoselective Monobromination of (*R*)-(-)-1-(2-Hydroxy-1-phenylethyl)-3,4-dihydropyridin-2(1*H*)-one**

Anna Vargas, María L. Orea,\* Joel L. Terán,  
David M. Aparicio, Jorge R. Juárez, Raúl G. Enriquez, and  
Dino Gnecco



Diastereospecific Reaction   Etherification   Monobromination

■ NEW HETEROCYCLIC NATURAL PRODUCTS

- 1049 Polyketides
- 1050 Aromatics
- 1065 Terpenes
- 1081 Steroids
- 1083 Alkaloids
- 1097 Miscellaneous

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 1099 Polyketides
- 1102 Aromatics
- 1105 Terpenes
- 1107 Steroids
- 1108 Alkaloids
- 1118 Miscellaneous

■ BRUSH UP YOUR HETEROCYCLES

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1121 Brush Up Your Heterocycles

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