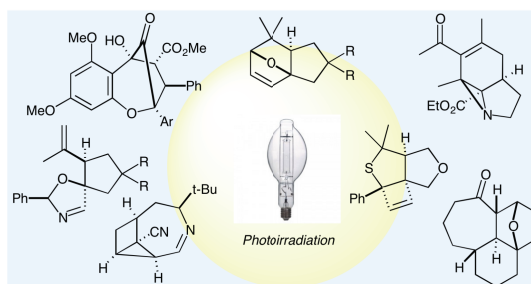


■ REVIEW

997 **Construction of Unique Heterocyclic Frameworks by Photochemical Reaction of 5- and 6-Membered Heteroaromatics**

Noriyoshi Arai* and Takeshi Ohkuma*

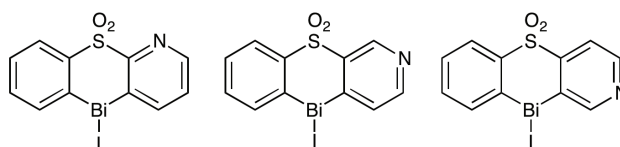


Photoreaction Cyclization Cycloaddition Heteroaromatic Unusual Framework

■ PAPERS

1037 **Synthesis and Antifungal Activities of Pyridine Bioisosteres of a Bismuth Heterocycle Derived from Diphenyl Sulfone**

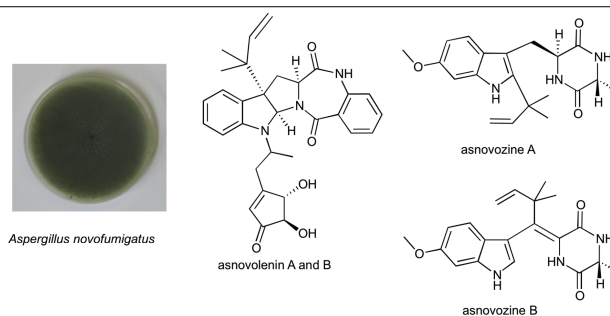
A. F. M. Hafizur Rahman, Toshihiro Murafuji,* Kazuki Yamashita, Masahiro Narita, Isamu Miyakawa, Yuji Mikata, Katsuya Ishiguro, and Shin Kamijo



Organobismuth Antifungal Activity Hypervalent Bismuth Atom Bioisostere Diaryl Sulfone

1053 **Four Cyclodipeptides, Asnovolenins A-B and Asnovozines A-B, from *Aspergillus novofumigatus***

Kazuki Ishikawa, Daigo Wakana, Takeshi Itabashi, Hisashi Takeda, Takashi Yaguchi, Ken-ichi Kawai, and Tomoo Hosoe*

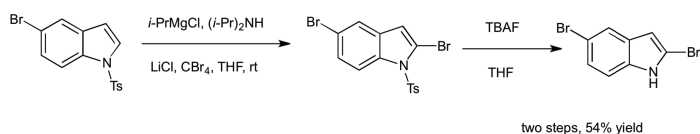


Cyclodipeptide Asnovolenin Asnovozine *Aspergillus fumigatus*

■ SHORT PAPERS

1067 A Practical Synthesis of 2-Substituted 5-Bromoindoles

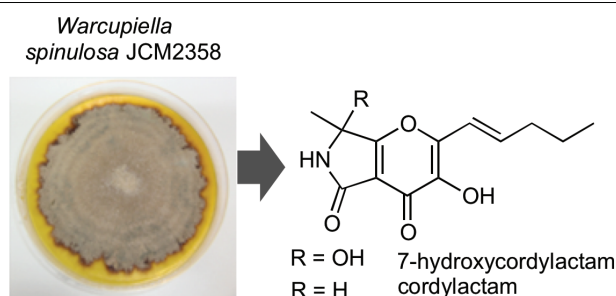
Yang He, Lianlian Fan, Haoting Zhu, Xiaolin Li, Pu Zhou, and Yu Luo*



Indole Grignard Reagent Hydrogen-Magnesium Exchange Synthesis

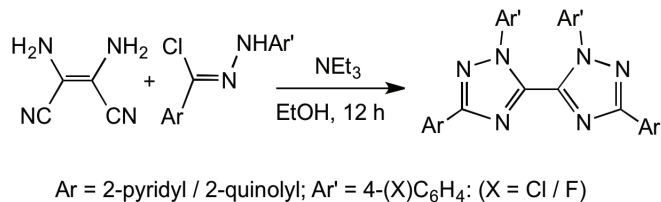
1075 Novel Antioxidant Isolated from *Warcupiella spinulosa* JCM 2358, 7-Hydroxycordylactam

Ryosuke Shigemoto, Ken-Ichi Oinuma, Shunsuke Masuo, and Naoki Takaya*


 Fungi *Warcupiella spinulosa* Secondary Metabolite Antioxidant

1080 One-Pot Synthesis of Model 1*H*,1'*H*-5,5'-Bi(1,2,4-Triazoles)

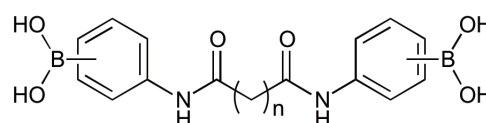
Mustafa M. El-Abadelah, Monther S. Zreid, and Mohammed M. Abadleh*



Hydrazonoyl Chloride Nitrile Imine 1,3-Dipole Diaminomaleonitrile Nucleophilic Addition 5,5'-Bi(1,2,4-Triazole)

1088 Preparation of Novel Bivalent Linker Mode Phenylboronic Acid Derivatives and Their Biological Evaluation

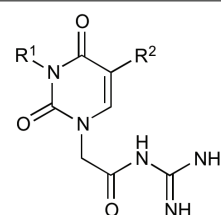
Makoto Furutachi, Ayaka Matsumoto, Tetsuya Tamenaga, Aya Sugita, Misato Kuroiwa, Kazumi Yokomizo, Jian-Rong Zhou, Nobuhiro Kashige, Fumio Miake, and Kunihiro Sumoto*



Phenylboronic Acid C2-Symmetry Cytotoxic Activity Anti-HSV-1 Activity NMR Analysis

1101 Pyrimidine Derivatives of *N*-Acetylguanidine: Novel Inhibitors of Sodium-Hydrogen Exchanger 1

Alexander Ozerov,* Mikhail Novikov, Alexander Spasov, Igor Iezhitsa, Natalia Gurova, and Valeria Gurova

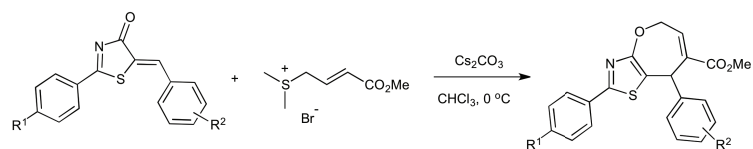


R¹ = H, Bn; R² = H, Me
IC₅₀ value against NHE-1 0.155-4.45 nM

 Sodium-Hydrogen Exchanger Pyrimidine *N*-Acetylguanidine Zoniporide

1108 Cs₂CO₃ Promoted [3+4] Annulation of Sulfur Ylides and Alkenylthiazolones: Synthesis of 5,8-Dihydrooxepino-[2,3-*d*]thiazole Derivatives

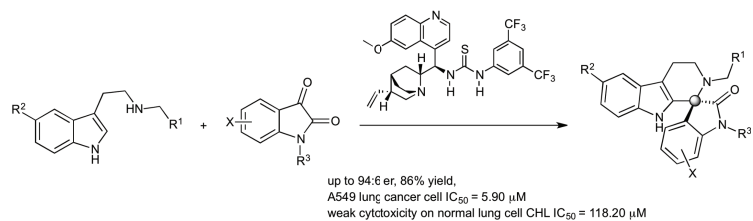
Yin He, Aimin Yu, and Xiangtai Meng*



Sulfur Ylide [3+4] Annulation Domino Reaction

1119 Cinchona Alkaloid Thiourea Catalyzed Asymmetric Synthesis and Anticancer Activity Evaluation of Tetrahydro- β -spirooxindoles

Liang Qi, Huacui Hou, Fei Ling, Lu Fang, Wenjun Luo, and Weihui Zhong*


 Cinchona Alkaloid Thiourea Asymmetric Synthesis Anticancer Activity Tetrahydro- β -spirooxindole

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 1133 Polyketides
- 1136 Aromatics
- 1140 Terpenes
- 1143 Alkaloids
- 1151 Miscellaneous

■ BRUSH UP YOUR HETEROCYCLES

1153 Brush Up Your Heterocycles

■ ADDITIONS AND CORRECTIONS

1169 Errata "Synthesis of Novel Angular and Linear Fused [5-6-5] Heterocycles by the Reaction of Methyl Cyano-(3-cyano-4,5-dihydro-2(3*H*)-furylidene)acetate with Hydrazines and Dimethylformamide Dimethyl Acetal": HETEROCYCLES, 2018, 96, 664, DOI: 10.3987/COM-17-13861
Fumi Okabe-Nakahara,* Eiichi Masumoto, Hiroshi Maruoka, and Kenji Yamagata

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| 1088 | Yokomizo, Kazumi | | |
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