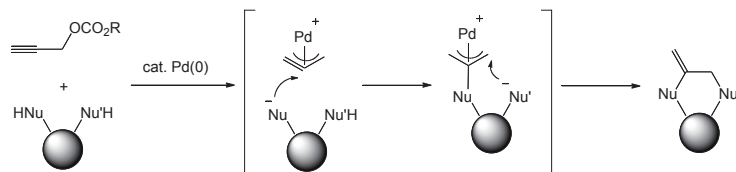


REVIEW

1835 Synthesis of Functionalized Cyclic Molecules by Palladium-Catalyzed Cyclization of Propargylic Esters with Bis-nucleophiles

Masahiro Yoshida*

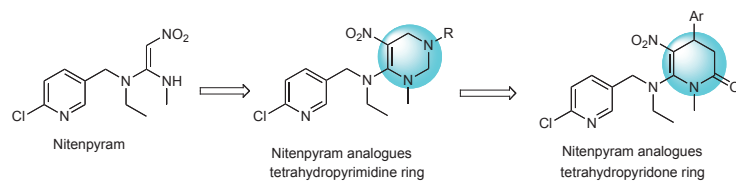


Cyclization Palladium Catalyst Propargylic Compound Nucleophile

PAPERS

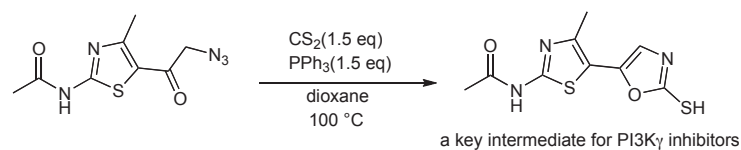
1865 Novel Nitenpyram Analogues with Tetrahydropyridone Fixed *cis*-Configuration: Synthesis, Insecticidal Activities, and Molecular Docking Studies

Chuan-Wen Sun,* Jing Wang, Ying Wu, Shi-Bin Nan, and Wang-Geng Zhang

Nitenpyram Analogue Synthesis Insecticidal Activity *cis*-Configuration Molecular Docking

1881 A Convenient Synthesis of 2-Mercapto-oxazoles via β -Ketoazide and Its Application to a Key Intermediate of PI3K γ Inhibitors

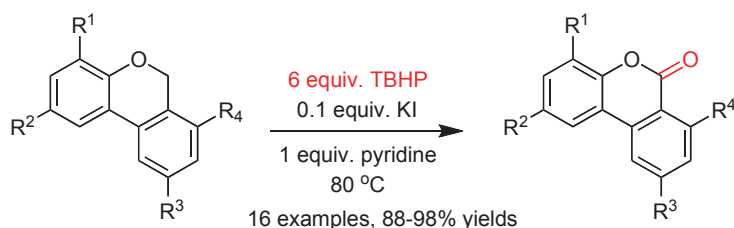
Yusuke Oka,* Tetsuya Yabuuchi, and Yoshinori Sekiguchi

2-Mercapto-oxazole Phosphoinositide 3-Kinase γ (PI3K γ) Iminophosphorane-Mediated Synthesis

■ SHORT PAPERS

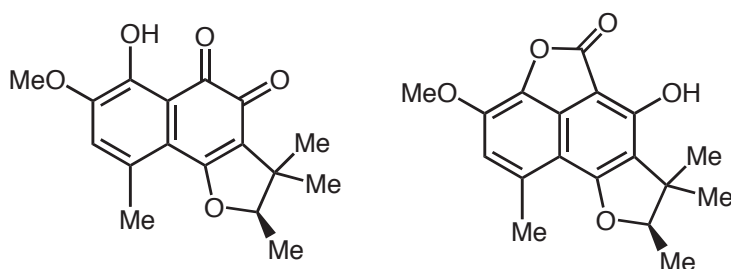
1889 A Metal-Free Oxidation of Benzo[*c*]chromen to Benzo[*c*]chromen-6-ones by *tert*-Butyl Hydroperoxide in the Presence of Potassium Iodide

Jing Zhou, Pan Han, Ying-Meng Xu, Tao Zhang,* and Zhen-Ting Du*


 Benzo[*c*]chromen-6-one *tert*-Butyl Hydroperoxide Heavy-Metal-Free Oxidation

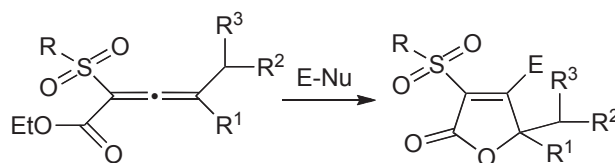
1897 Naphthoquinones and Phenalenone Derivatives from the Cultured Lichen Mycobionts of *Trypethelium* sp.

Yukiko Takenaka, Yuki Naito, Duy Hoang Le, Nobuo Hamada, and Takao Tanahashi*


Trypethelium Lichen Isolated Mycobiont Naphthoquinone Structure Elucidation

1903 Bifunctionalized Allenes. Part X. An Electrophilic Cyclization Protocol for Convenient Highly Regioselective Synthesis of 3-Sulfonylfuran-2(5*H*)-ones from 2-Sulfonylallenoates

Valerij Ch. Christov,* Ivaylo K. Ivanov, and Ismail E. Ismailov



Yields: 70-77%

 R = Me, CCl₃, Ph; R¹ = Me; R² = H, Me;

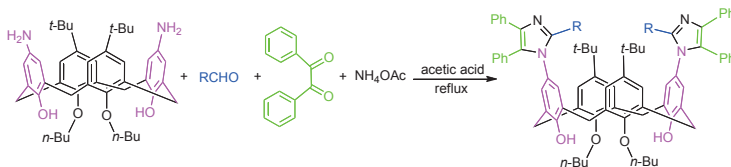
 R¹+R² = -(CH₂)₄-; R³ = H, Me;

E = Cl, Br, PhS, PhSe; Nu = Cl, Br.

 2-Sulfonylallenoate 3-Sulfonylfuran-2(5*H*)-one Neighbouring Group Participation 2-Sulfonylalka-2,3-, and -2,4-dien-1-ones

1917 One-Pot Synthesis of 11,23-Bis(imidazol-1-yl)calix[4]arene Derivatives Based on the Upper Rim of Bisaminocalix[4]arene

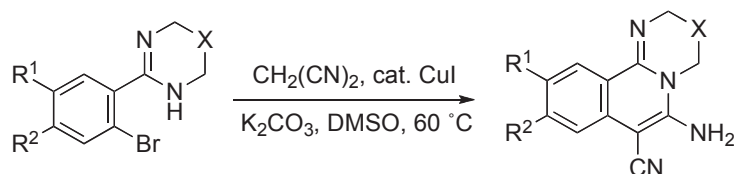
Bing Zhao, Yao-Yu Ruan, Ming-jie Ma, Qi-Gang Deng,* Li-Yan Wang, Ya-Qing Feng, and Yan Gao*



One-Pot Synthesis Multicomponent Reaction Bis(imidazol-1-yl)calix[4]arene Derivative Cone Conformation

1925 Convenient Synthesis of 6-Amino-3,4-dihydro-2*H*-pyrimido[2,1-*a*]isoquinoline-7-carbonitriles and 5-Amino-2,3-dihydroimidazo[2,1-*a*]isoquinoline-6-carbonitriles

Kazuhiro Kobayashi,* Kosuke Ezaki, and Toshihide Komatsu


 R¹ = H, Cl, OMe; R² = H, OMe;

 X = nil, CH₂, CMe₂

67-84%

 Pyrimido[2,1-*a*]isoquinoline Imidazo[2,1-*a*]isoquinoline Copper(I) Iodide Malononitrile Enaminonitrile

■ NEW HETEROCYCLIC NATURAL PRODUCTS

- 1933 Polyketides
 - 1937 Aromatics
 - 1945 Terpenes
 - 1964 Steroids
 - 1966 Alkaloids
 - 1977 Miscellaneous
-

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 1979 Polyketides
 - 1983 Aromatics
 - 1984 Terpenes
 - 1989 Alkaloids
 - 1999 Miscellaneous
-

Contributors To This Issue

1903 Christov, Valerij Ch.
1917 Deng, Qi-Gang
1889 Du, Zhen-Ting
1925 Ezaki, Kosuke
1917 Feng, Ya-Qing
1917 Gao, Yan
1897 Hamada, Nobuo
1889 Han, Pan
1903 Ismailov, Ismail E.
1903 Ivanov, Ivaylo K.
1925 Kobayashi, Kazuhiro
1925 Komatsu, Toshihide
1897 Le, Duy Hoang
1917 Ma, Ming-jie
1897 Naito, Yuki
1865 Nan, Shi-Bin
1881 Oka, Yusuke
1917 Ruan, Yao-Yu
1881 Sekiguchi, Yoshinori
1865 Sun, Chuan-Wen
1897 Takenaka, Yukiko
1897 Tanahashi, Takao
1865 Wang, Jing
1917 Wang, Li-Yan
1865 Wu, Ying
1889 Xu, Ying-Meng
1881 Yabuuchi, Tetsuya
1835 Yoshida, Masahiro
1889 Zhang, Tao
1865 Zhang, Wang-Geng
1917 Zhao, Bing
1889 Zhou, Jing