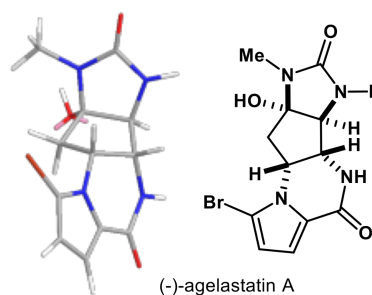


■ REVIEW

1735 Chemical Syntheses and Biological Studies of Agelastatin A, a Bioactive Marine Heterocycle Gifted from Nature

Takehiko Yoshimitsu*

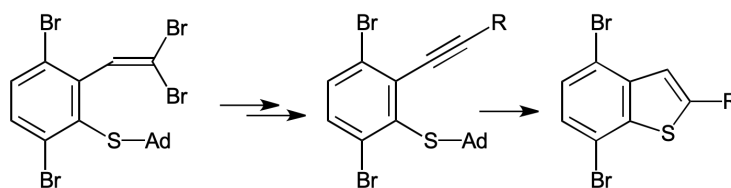


Total Synthesis Natural Product Nitrogen Heterocycle Synthetic Method SAR Study

■ PAPERS

 1763 Synthesis of 4,7-Dibromobenzo[*b*]thiophene Derivatives via 2-(1-Adamantylsulfanyl)-1,4-dibromo-3-(ethynyl)benzenes and Their Reactions

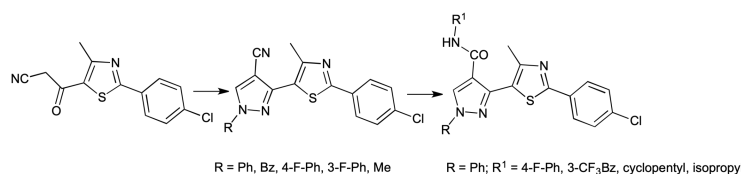
Kozo Toyota,* Shinichi Mikami, Hiroki Tanaka, Shuhei Yoshida, Kazuma Iwai, Kenta Takahashi, Hiroki Kishi, Yota Kikuchi, Koya Saito, Homa Yamaguchi, and Hirotaaka Mutoh


 Ad = 1-adamantyl; R = H, Br, I, NR₂, CHO, aryl, heteroaryl, etc.

Benzothiophene Molecular Architecture Molecular Scaffold Synthetic Building Block

1785 Synthesis of Novel (Thiazol-5-yl)pyrazoles and Their Antimicrobial Evaluation

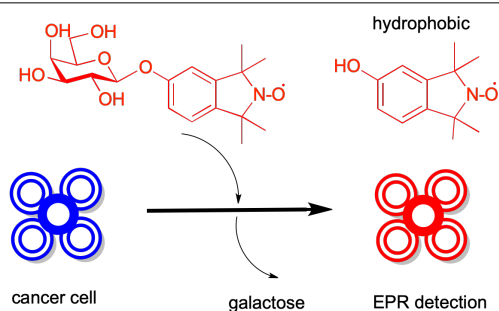
Sanjay U. Deshmukh,* Raghunath B. Toche,* Sushama J. Takate, Supriya P. Salve, and Ram W. Sabnis



Thiazolypyrazole Oxopropanenitrile Antimicrobial Activity Antibacterial Activity Antifungal Activity

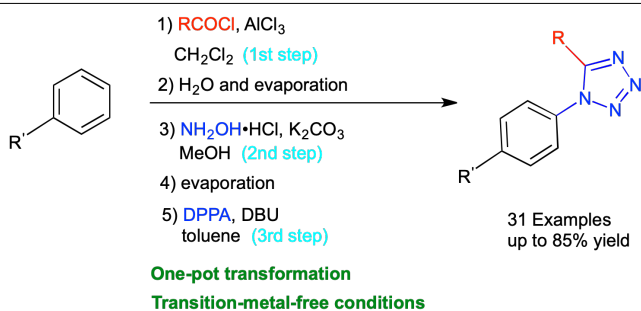
 1799 Synthesis and Evaluation of β -Galactosidase-Targeting Spin-Label Probe: 5-O- β -D-Galactosyl-5-hydroxy-1,1,3,3-tetramethylisoindoline-2-oxyl

Koya Sugawara, Hiroyuki Konno, Tomohiro Ito, and Shingo Sato*


 Nitroxide O- β -Galactoside Reduction Reactivity Hydrolysis Reactivity HeLa Cell Spin-Label Probe

1816 Facile Preparation of 5-Alkyl-1-aryltetrazoles with Arenes, Acyl Chlorides, Hydroxylamine, and Diphenylphosphoryl Azide

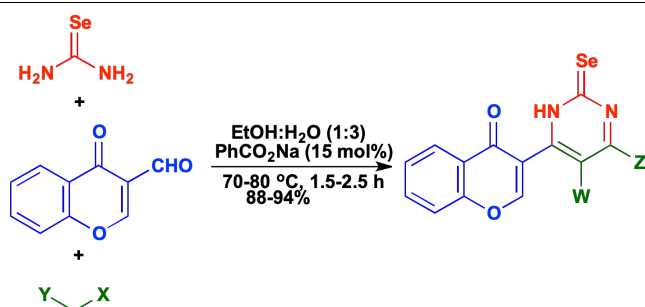
Kaho Shibasaki and Hideo Togo*



Arene Tetrazole Oxime Friedel-Crafts Acylation Beckmann Rearrangement

1831 Efficient Synthesis and Anticancer Activities of Some Novel Functionalized (4-Oxo-4H-chromen-3-yl)-2-selenoxo-1,2-dihydropyrimidines

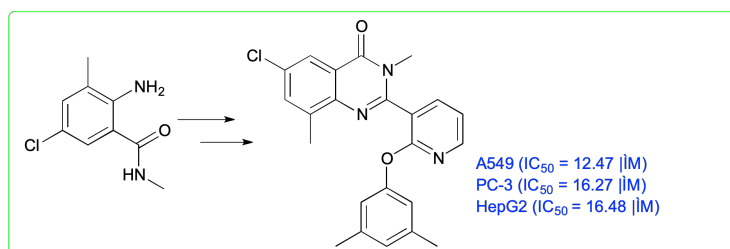
Tarik E. Ali,* Mohammed A. Assiri, Mamdouh M. Ali, Abeer E. M. Ali, Ibrahim S. Yahia, and Heba. Y. Zahran



Chromone Selenium Pyrimidine Anticancer Activity

1845 Synthesis and Evaluation of Biological Properties of 2-(2-(Phenoxy)pyridin-3-yl)quinazolin-4(3H)-one Derivatives

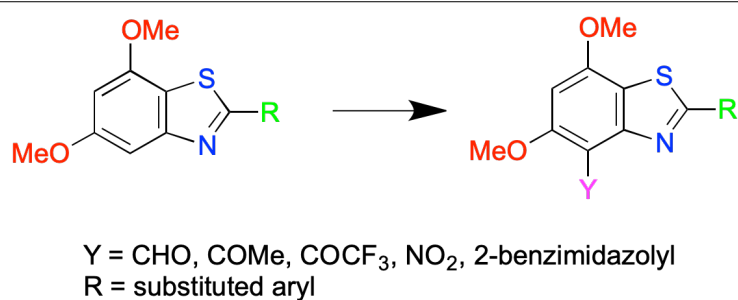
Li-qiong Zhang, Jia-min Liu, Yi-yuan Gan, Li-hui Shao, Yi-hong Fu, Zhen-chao Wang,* and Gui-ping Ouyang*



Quinazolinone Derivative Antitumor Activity Scratch Wound Assay Cell Apoptosis

1859 Synthesis and Reactivity of Dimethoxy Activated Benzothiazoles

Mahiuddin Alamgir, Hao Jiang, Mohan Bhadbhade, Naresh Kumar, and David StC. Black*

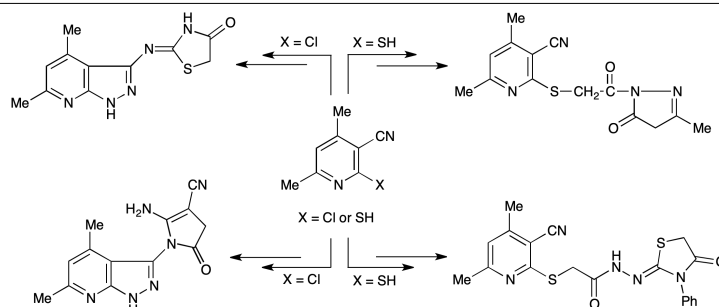


Benzothiazole Formylation Acetylation Nitration Di(benzothiazolyl)methane

■ SHORT PAPERS

1883 **Synthesis and Antibacterial Survey of Some New Pyridine-Based Heterocycles**

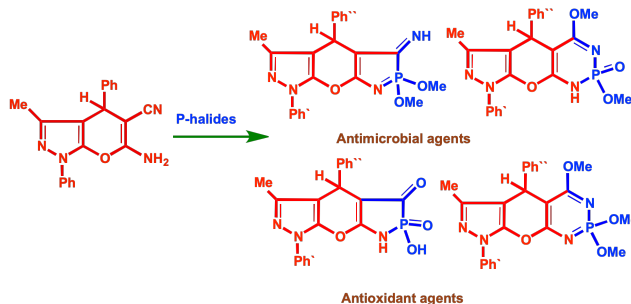
Ebrahim Abdel-Galil, Maged A. Berghot, Alshimaa I. Zaki, and Ehab Abdel-Latif*



Acetohydrazide Antimicrobial Activity Chloroacetamide Nicotinonitriles 1*H*-Pyrazolo[3,4-*b*]pyridine

1902 **Synthesis of Some Novel Antimicrobial and Antioxidant Agents of Functionalized Pyrazolo[4',3':5,6]pyrano[3,2-*d*]-[1,2]azaphospholes and Pyrazolo[4',3':5,6]pyrano[2,3-*d*]-[1,3,2]diazaphosphinines**

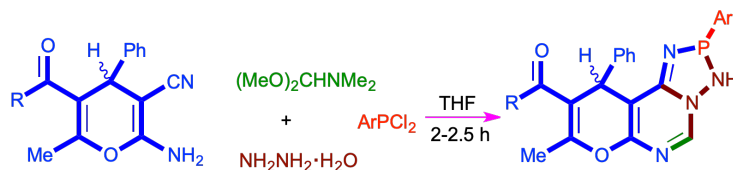
Noha M. Hassanin,* Tarik E. Ali, Hafez M. El-Shaer, Somaia M. Abdel-Kariem, Somaya M. El-Edfawy, and Wafaa R. Abdel-Monem



Pyrano[2,3-*c*]pyrazole 1,2-Azaphosphole 1,3,2-Diazaphosphinine Antimicrobial Agent Antioxidant Agent

1914 **Four-Component Domino Reaction for the Synthesis of Novel 8-Methyl-9-substituted-2,10-diaryl-2,3-dihydro-10*H*-pyrano[3,2-*e*][1,2,4,3]triazaphospholo[1,5-*c*]pyrimidines**

Dina A. Bakhotmah and Tarik E. Ali*



Pyran Pyrimidine Triazaphosphole One-Pot Synthesis Synthesis

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 1921 Aromatics
- 1923 Terpenes
- 1927 Alkaloids
- 1932 Miscellaneous

■ BRUSH UP YOUR HETEROCYCLES

1933 Brush Up Your Heterocycles

Contributors To This Issue

- 1883 Abdel-Galil, Ebrahim
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 1883 Abdel-Latif, Ehab
 1902 Abdel-Monem, Wafaa R.
 1859 Alamgir, Mahiuddin
 1831 Ali, Abeer E. M.
 1831 Ali, Mamdouh M.
 1831, 1902, 1914 Ali, Tarik E.
 1831 Assiri, Mohammed A.
 1914 Bakhotmah, Dina A.
 1883 Berghot, Maged A.
 1859 Bhadbhade, Mohan
 1859 Black, David StC.
 1785 Deshmukh, Sanjay U.
 1902 El-Edfawy, Somaya M.
 1902 El-Shaer, Hafez M.
 1845 Fu, Yi-hong
 1845 Gan, Yi-yuan
 1902 Hassanin, Noha M.
 1799 Ito, Tomohiro
 1763 Iwai, Kazuma
 1859 Jiang, Hao
 1763 Kikuchi, Yota
 1763 Kishi, Hiroki
 1799 Konno, Hiroyuki
 1859 Kumar, Naresh
 1845 Liu, Jia-min
 1763 Mikami, Shinichi
 1763 Mutoh, Hirotaka
 1845 Ouyang, Gui-ping
 1785 Sabnis, Ram W.
 1763 Saito, Koya
 1785 Salve, Supriya P.
 1799 Sato, Shingo
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 1816 Shibasaki, Kaho
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 1763 Tanaka, Hiroki
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 1845 Wang, Zhen-chao
 1831 Yahia, Ibrahim S.
 1763 Yamaguchi, Homa
 1763 Yoshida, Shuhei
 1735 Yoshimitsu, Takehiko
 1831 Zahran, Heba. Y.
 1883 Zaki, Alshimaa I.
 1845 Zhang, Li-qiong