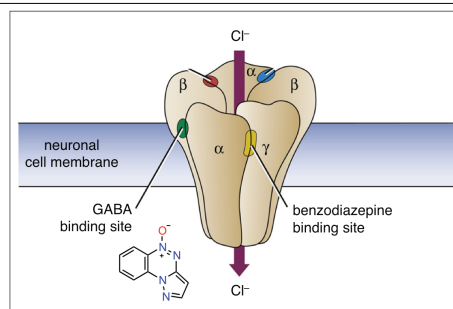


■ REVIEW

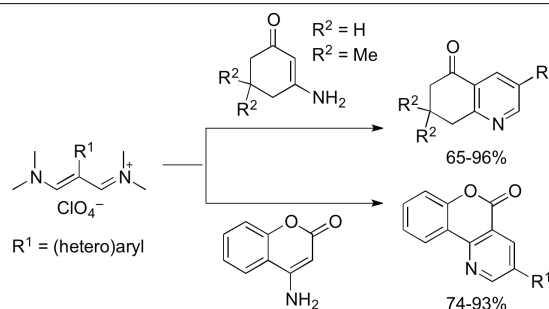
- 1869 **Synthesis, Reaction and Biological Activity of Pyrazolo[5,1-c][1,2,4]benzotriazine 5-Oxides**
 Ghodsi Mohammadi Ziarani,* Manizheh Mostofi,
 Negar Lashgari,* and Mohammad Mahdavi



Pyrazolo[5,1-c][1,2,4]benzotriazine 5-Oxide Tricyclic Heteroaromatic System Benzodiazepine Receptor Binding Affinity

■ COMMUNICATION

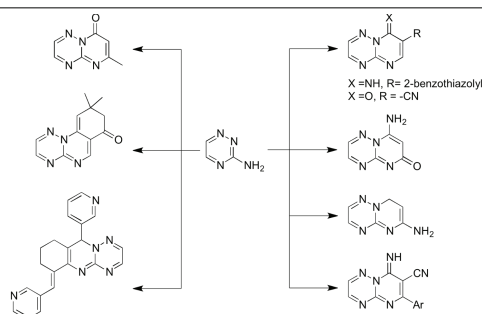
- 1889 **New Facile Synthesis of 3-Substituted 7,8-Dihydroquinolin-5(6H)-ones and [1]Benzopyrano[4,3-b]pyridin-5-ones Using 2-(Hetero)arylvinamidinium Salts**
 Yiyi Weng, Chen Sun, Qingwei Cao, Hantao Chen,
 Nanhui Li, Zhuo Chen, and Weike Su*



[1]Benzopyrano[4,3-b]pyridin-5-one 7,8-Dihydroquinolin-5(6H)-one 2-(Hetero)arylvinamidinium Salt

■ PAPERS

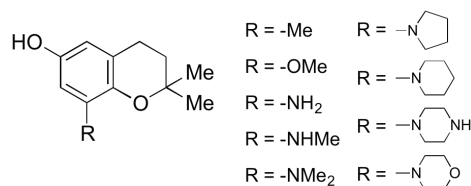
- 1897 **Synthesis, Characterization and Antimicrobial Evaluation of Some Novel Fused Pyrimido[1,2-b]-[1,2,4]triazine, Triazino[2,3-a]quinazoline and Imidazo[1,2-b][1,2,4]triazine Derivatives**
 Khaled S. Mohamed* and Elsherbiny H. El-Sayed



1,2,4-Triazine Pyrimidine Quinazoline

1910 Effect of *meta*-Substituents on the Radical Scavenging Activity of 6-Chromanol Derivatives

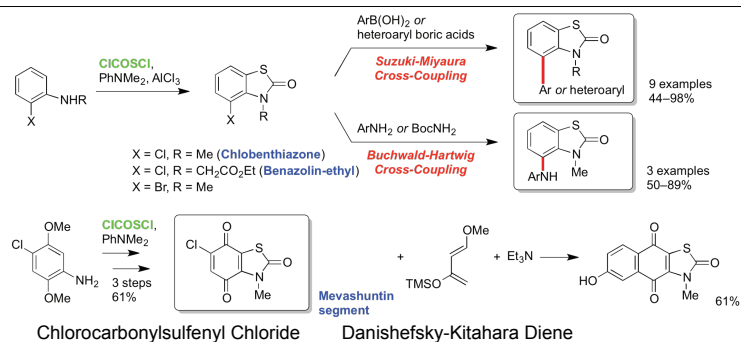
Keiko Inami,* Yuta Okayama, Mariko Suzuki, and Masataka Mochizuki



6-Chromanol Radical Scavenging Activity Planar Structure Electron-Donating Resonance Substituent α-Tocopherol

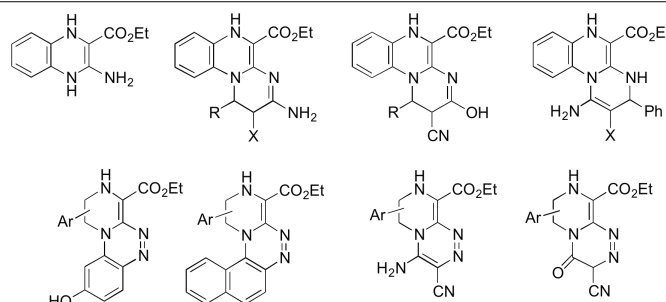
1925 Utilization of Chlobenthiazone and Benazolin-ethyl as 4-Substituted 2(3*H*)-Benzothiazol-2-one Scaffolds

Masatoshi Kakuno, Shotaro Izawa, Taichi Takemoto, and Yoo Tanabe*


 2(3*H*)-Benzothiazol-2-one Cyclocondensation Cross-Coupling Chlorocarbonylsulfonyl Chloride Danishefsky-Kitahara Diene

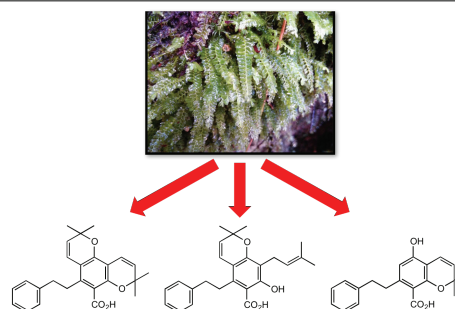
SHORT PAPERS
1941 Synthesis, Molecular Docking Studies and in vitro Antimicrobial Evaluation of Novel Pyrimido[1,2-*a*]-quinoxaline and Triazino[4,3-*a*]-quinoxaline Derivatives

Rania B. Bakr,* Nadia A. A. Elkanzi, Amira A. Ghoneim, and Shaima M. N. Moustafa

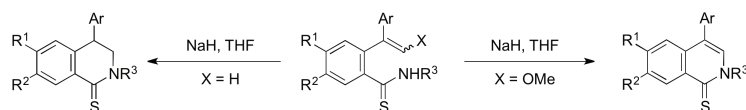

 Molecular Docking Pyrimido[1,2-*a*]-quinoxaline Triazino[4,3-*a*]-quinoxaline Antimicrobial Activity

1958 New Prenylated Bibenzyls from Bornean Liverwort *Acrobolbus saccatus*

Shean-Yeaw Ng, Takashi Kamada, Chin-Soon Phan, Monica Suleiman, and Charles S. Vairappan*

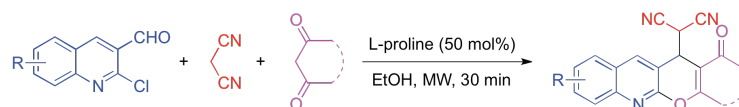

 Prenylated Bibenzyl Derivative *Acrobolbus saccatus* Liverwort Borneo Island

- 1966** Synthesis of 4-Arylisoquinoline-1(2*H*)-thione Derivatives by Sodium Hydride-Mediated Cyclizations of 2-(1-Arylethenyl)benzothioamides
 Kazuhiro Kobayashi* and Takuma Ueyama



Isoquinoline-1(2*H*)-thione Sodium Hydride 2-Vinylbenzothioamide Ring Closure

- 1977** An Efficient Synthesis and Evaluation of Antitumor Activities of Functionalized Pyrano[2,3-*b*]quinolines
 Wei Lin, Mengye Zhang, Ning Wang, Wentao Xu, and Daqing Shi*



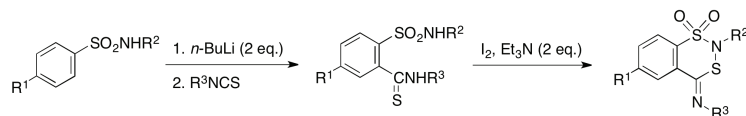
Pyrano[2,3-*b*]quinoline Multi-Component Reaction Antitumor Activity

- 1991** A Pair of New Non-glycosidic Iridoid Epimers from *Scrophularia ningpoensis*
 Wei Zhang, Peng Liu, Xin-Yu Ji, Xiang-Yang Chen, Yan-Yan Jiang, and Bin Liu*



Scrophularia ningpoensis Iridoid Isolation Structure Elucidation

- 1999** Synthesis of 4*H*-1,3,2-Benzodithiazin-4-imine 1,1-Dioxide Derivatives by Oxidative Cyclization of 2-(Aminosulfonyl)benzothioamide Derivatives with Iodine
 Kazuhiro Kobayashi* and Daiki Fujiwara



$R^1 = \text{H, Me, Cl, MeO}; R^2 = \text{alkyl}; R^3 = \text{alkyl, Ph}$

4*H*-1,3,2-Benzodithiazin-4-imine 1,1-Dioxide 2,*N*-Dilithiobenzenesulfonamide Benzothioamide Isothiocyanate Iodine

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 2005 Polyketides
 - 2007 Aromatics
 - 2010 Steroids
 - 2011 Alkaloids
 - 2018 Miscellaneous
-

■ BRUSH UP YOUR HETEROCYCLES

- 2021 Brush Up Your Heterocycles
-

Contributors To This Issue

- 1941 Bakr, Rania B.
1889 Cao, Qingwei
1889 Chen, Hantao
1991 Chen, Xiang-Yang
1889 Chen, Zhuo
1897 El-Sayed, Elsherbiny H.
1941 Elkanzi, Nadia A. A.
1999 Fujiwara, Daiki
1941 Ghoneim, Amira A.
1910 Inami, Keiko
1925 Izawa, Shotaro
1991 Ji, Xin-Yu
1991 Jiang, Yan-Yan
1925 Kakuno, Masatoshi
1958 Kamada, Takashi
1966, 1999 Kobayashi, Kazuhiro
1869 Lashgari, Negar
1889 Li, Nanhui
1977 Lin, Wei
1991 Liu, Bin
1991 Liu, Peng
1869 Mahdavi, Mohammad
1910 Mochizuki, Masataka
1897 Mohamed, Khaled S.
1869 Mohammadi Ziarani, Ghodsi
1869 Mostofi, Manizheh
1941 Moustafa, Shaima M. N.
1958 Ng, Shean-Yeaw
1910 Okayama, Yuta
1958 Phan, Chin-Soon
1977 Shi, Daqing
1889 Su, Weike
1958 Suleiman, Monica
1889 Sun, Chen
1910 Suzuki, Mariko
1925 Takemoto, Taichi
1925 Tanabe, Yoo
1966 Ueyama, Takuma
1958 Vairappan, Charles S.
1977 Wang, Ning
1889 Weng, Yiyi
1977 Xu, Wentao
1977 Zhang, Mengye
1991 Zhang, Wei