

## Contents

---

### **REVIEW**

Organic Stereochemistry

Part 5. Stereoselectivity in Molecular and Clinical Pharmacology

*B. Testa\*, G. Vistoli, A. Pedretti, J. Caldwell*

747



### **Part 5. Stereoselectivity in Molecular and Clinical Pharmacology**

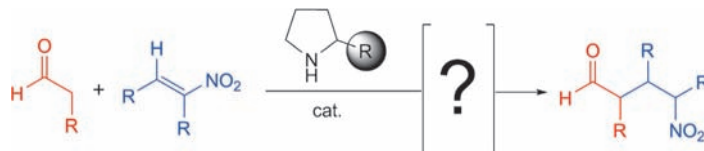
- 5.1. Conceptual Models of Chiral Recognition in  
Biology and Pharmacology**
  - 5.2. Chiral Recognition in Molecular Modeling and  
Molecular Dynamics**
  - 5.3. Stereoselectivity in Pharmacology**
  - 5.4. Stereoselectivity in Absorption, Distribution, and  
Excretion**
-

---

Stoichiometric Reactions of Enamines Derived from Diphenylprolinol Silyl Ethers with Nitro Olefins and Lessons for the Corresponding Organocatalytic Conversions – a Survey

D. Seebach\*, X. Sun, M.-O. Ebert, W. B. Schweizer, N. Purkayastha, A. K. Beck, J. Duschmalé, H. Wennemers, T. Mukaiyama, M. Benohoud, Y. Hayashi\*, M. Reiher\*

799

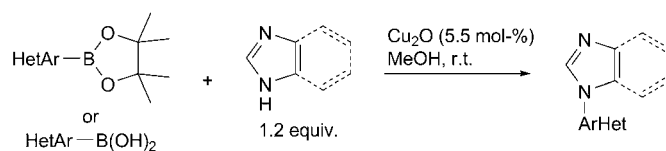


---

Scope and Limitations of the Base-Free Copper(I) Oxide Catalyzed *N*-Heteroarylation of 1*H*-(Benz)imidazoles with *B*-Heteroarylboronic Acids or 2-Heteroaryl-4,4,5,5-tetramethyl-1,3,2-dioxaborolanes

A. Beguin, M.-J. P. R. Queiroz\*

853

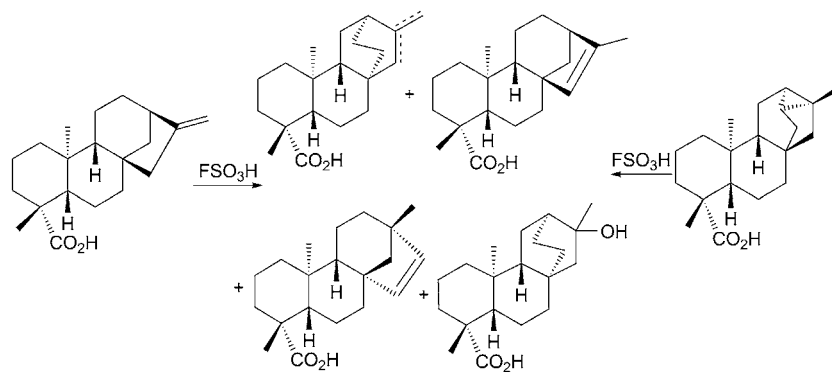


---

Synthesis of Natural Atisane-Type Diterpenoids by *retro*-Biomimetic Transformations

N. Ungur\*, V. Kulçıtkı, O. Chetaru, M. Grinco, P. F. Vlad

864

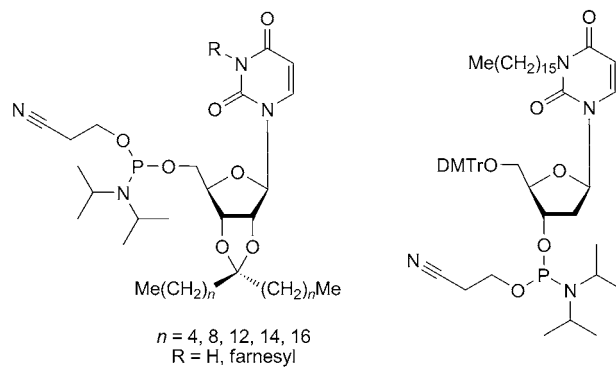


---

Synthesis of Thymidine, Uridine, and 5-Methyluridine Nucleolipids: Tools for a Tuned Lipophilization of Oligonucleotides

E. Werz, R. Viere, G. Gassmann, S. Korneev, E. Malecki, H. Rosemeyer\*

872

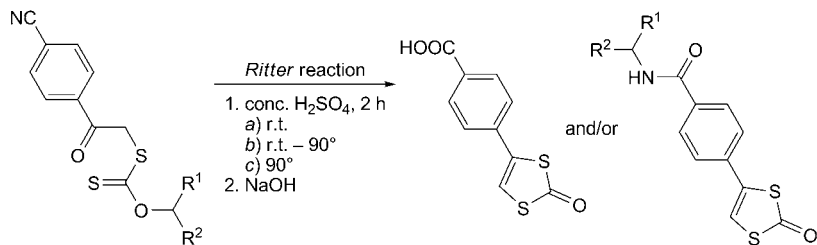


---

Unexpected Ritter Reaction During Acid-Promoted 1,3-Dithiol-2-one Formation

F. Dumur\*, C. R. Mayer

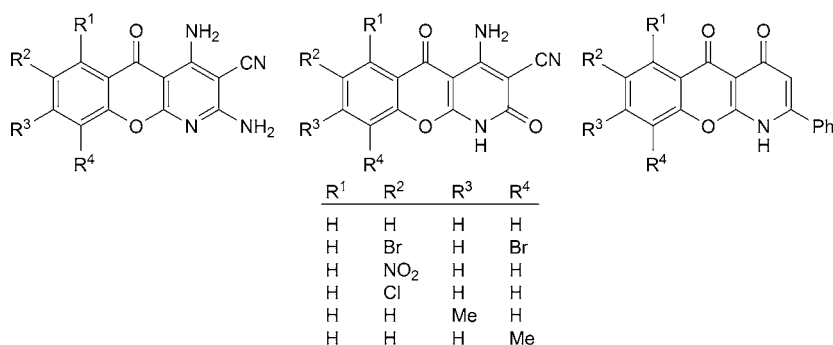
889



Synthesis of Functionalized *H*-[1]Benzopyrano[2,3-*b*]pyridines by the *Friedländer* Approach: Antimycobacterial and Antimicrobial Profile

*D. D. Haveliwala, N. R. Kamdar, P. T. Mistry, S. K. Patel\**

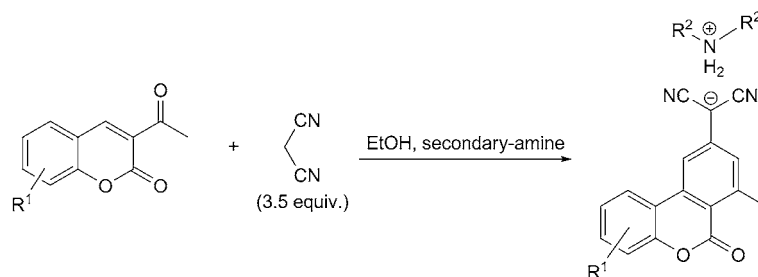
897



Dicyano(7-methyl-6-oxo-6*H*-dibenzo[*b,d*]pyran-9-yl)methanide Salts *via* a Multicomponent Reaction

*M. Khoobi, A. Ramazani\*, A. Foroumadi, A. Souldozi, K. Ślepokura, T. Lis, A. Mahyari, A. Shafiee, S. W. Joo\**

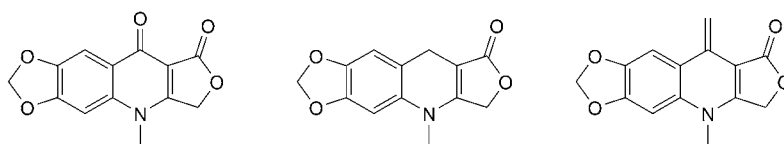
906



Synthesis of New Furo[3,4-*b*]quinolin-1(3*H*)-one Scaffolds Derived from  $\gamma$ -Lactone-Fused Quinolin-4(1*H*)-ones

*R. Labruère, P. Helissey, S. Desbène-Finck, S. Giorgi-Renault\**

919

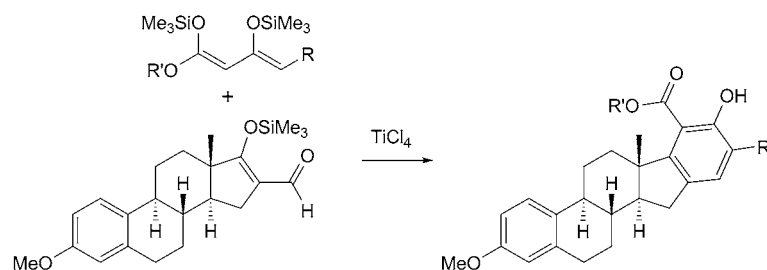


---

Benzo-Annulated Steroids: Synthesis of Octahydro-indeno-phenanthrenes by Formal [3 + 3] Cyclocondensation Reaction with 1,3-Bis[(trimethylsilyl)oxy]buta-1,3-dienes

F. Erben, V. Specowius, J. Wölfling, G. Schneider, P. Langer\*

924

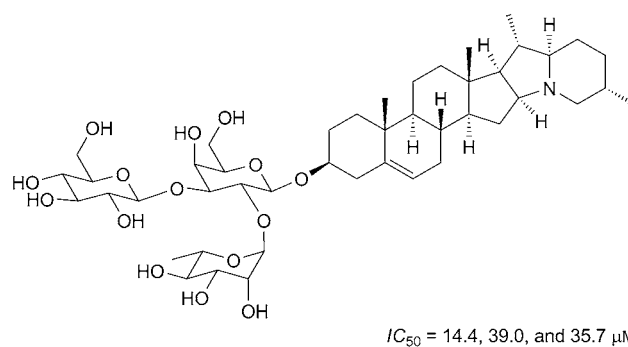


---

Five New Steroidal Alkaloid Glycosides from *Solanum tuberosum*

Z.-Q. Zhang, J.-G. Luo, J.-S. Wang, L.-Y. Kong\*

931

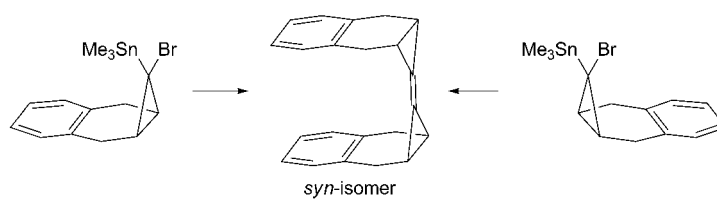


---

Stereoconvergent Generation of a Contrasteric *syn*-Bicyclopropylidene (= *syn*-Cyclopropylidenecyclopropane) by *Stille*-Like Coupling

M. Güney, S. Eşsiz, A. Daştan\*, M. Balci, O. De Lucchi, E. Şahin, F. Fabris

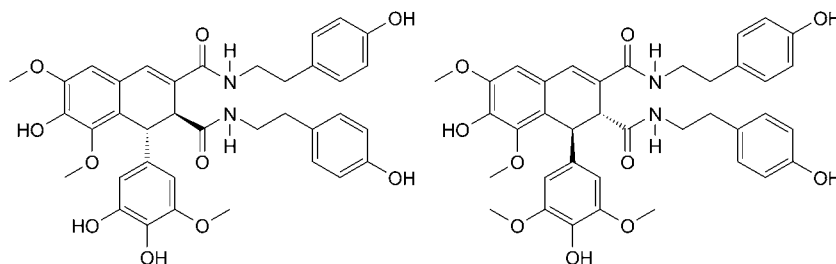
941



Two New Bis-alkaloids from the Aerial Part of *Piper flaviflorum*

Y. Wu, C.-J. Zheng, X.-H. Deng, L.-P. Qin\*

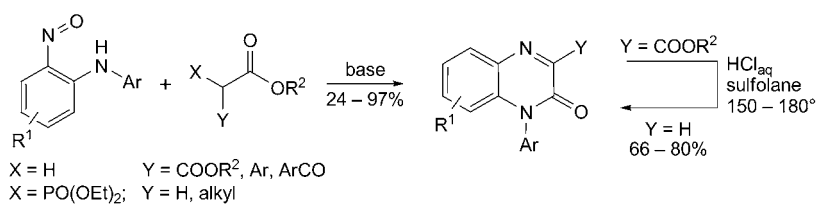
951



Efficient Synthesis of 1-Arylquinoxalin-2(1H)-ones via Cyclocondensation of *N*-Aryl-Substituted 2-Nitrosoanilines with Functionalized Alkyl Acetates

Z. Wróbel\*, K. Stachowska, A. Kwast, A. Gościk, M. Królikiewicz, R. Pawłowski, I. Turska

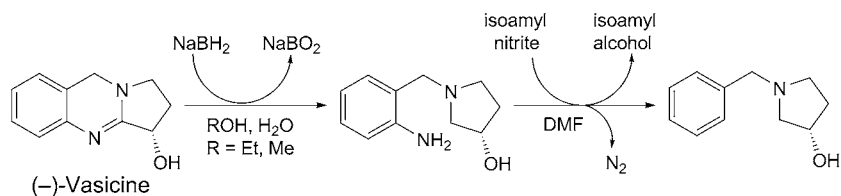
956



Natural (-)-Vasicine as a Novel Source of Optically Pure 1-Benzylpyrrolidin-3-ol

M. A. Aga, B. Kumar, A. Rouf, B. A. Shah, S. S. Andotra, S. C. Taneja\*

969

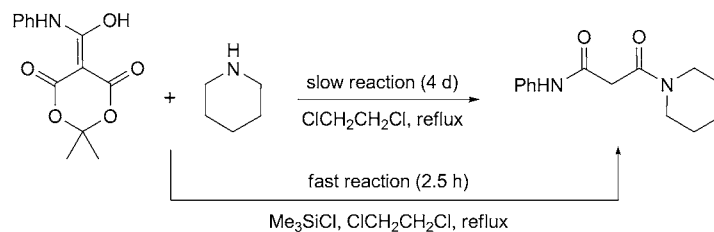


---

Mechanism of the Reaction of Amines with 5-[(Aryl- or Alkylamino)hydroxymethylene]-2,2-dimethyl-1,3-dioxane-4,6-diones in the Presence of Chlorotrimethylsilane ( $\text{Me}_3\text{SiCl}$ )

*K. Janikowska, S. Makowiec\*, J. Rachoń*

978

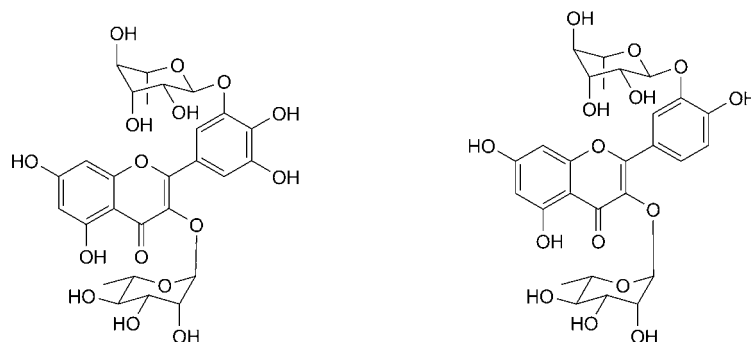


---

New Flavonoids from *Lysimachia christinae* HANCE

*F. Gao, D. Zhao, J. Deng\**

985

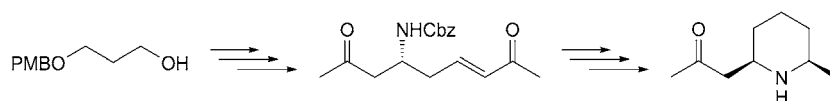


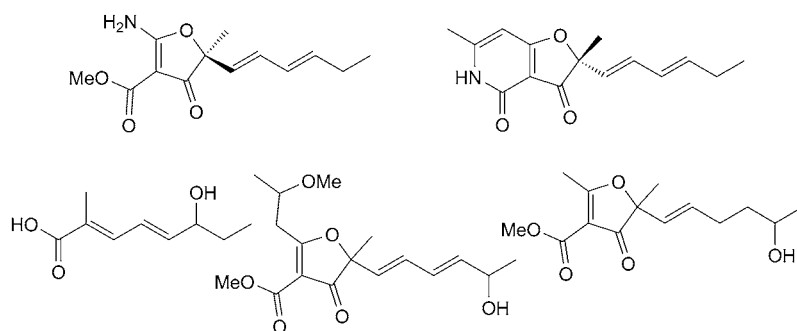
---

Stereoselective Synthesis of (-)-Pinidinone

*G. Shankaraiah, T. V. Kumar, G. V. Reddy, J. M. Rao, K. S. Babu\**

990





\* Author to whom correspondence should be addressed  
Korrespondenzautor