

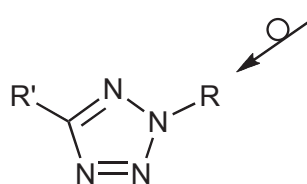
■ REVIEWS

493 Direct Routes to 2*H*-Tetrazoles by Cyclization and Ring Transformation

Dietrich Moderhack\*

open-chain compounds

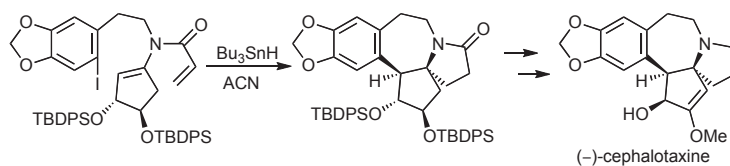
other azoles  
azines



Ring Closure    Ring Transformation    2,5-Disubstituted Tetrazole

527 Synthesis of Alkaloids Using Radical Cyclizations

Tsuyoshi Taniguchi and Hiroyuki Ishibashi\*

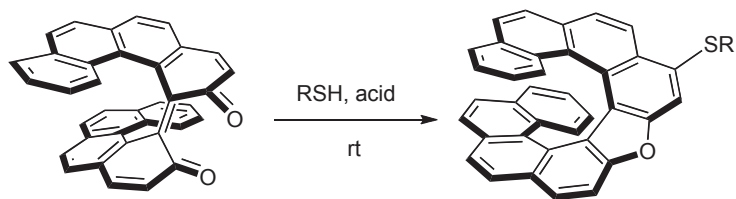


Alkaloid    5-*endo*-Trig    Radical    Radical Cascade

■ COMMUNICATION

547 Novel Synthesis of Thioalkoxy-Substituted Oxa[9]-helicenes by the Reaction of Helical Quinones with Thiols

Mohammad Salim, Takao Kimura, and Michinori Karikomi\*

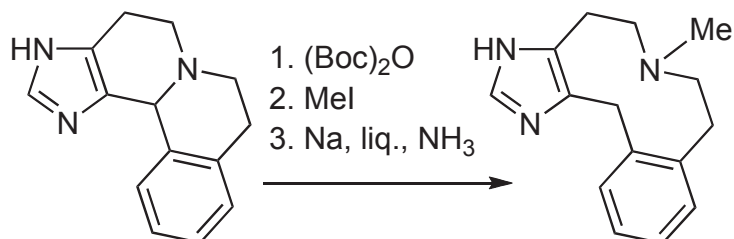


Helicene    Furan    Cyclization    Nucleophile    Oxahelicene

## ■ PAPERS

**551 Synthesis and Biological Activity of Novel Heterocyclic Ring Systems: Imidazo[4',5':3,4]-pyrido[2,1-*a*]isoquinolines and Imidazo[4,5-*f*][3]-benzazecines**

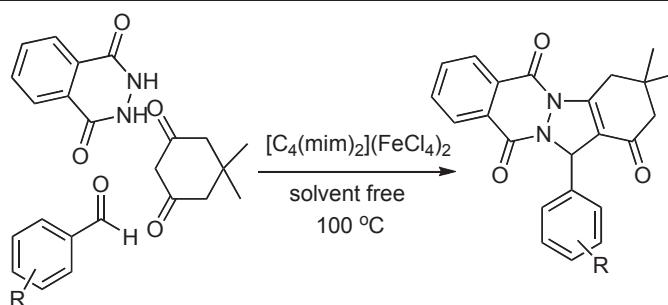
Robert Otto, Christoph Enzensperger, and Jochen Lehmann\*



Pictet-Spengler Reaction    Azecine    Ring Expansion    Dopamine Receptor Ligand

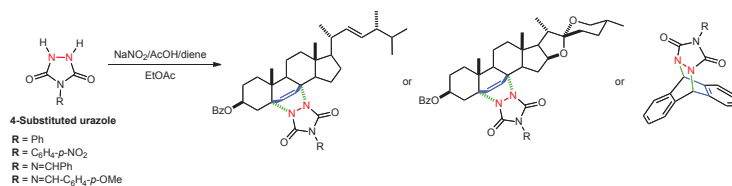
**559 One-Pot Synthesis of 2*H*-Indazolo[2,1-*b*]phthalazinetrione Catalyzed by Magnetic Room Temperature Dicationic Ionic Liquid under Solvent-Free Conditions**

Bijan Mombani Godajdar,\* Ali Reza Kiasat, and Mohammad Mahmoodi Hashemi


 [bbmim](FeCl<sub>4</sub>)<sub>2</sub>    2*H*-Indazolo[2,1-*b*]phthalazinetrione    Solvent Free    Reusable Catalyst

**571 A Convenient Methodology for the *in situ* Oxidation of 4-Substituted Urazoles. Setting Up a One-Pot Procedure for the Efficient Protection of Dienes**

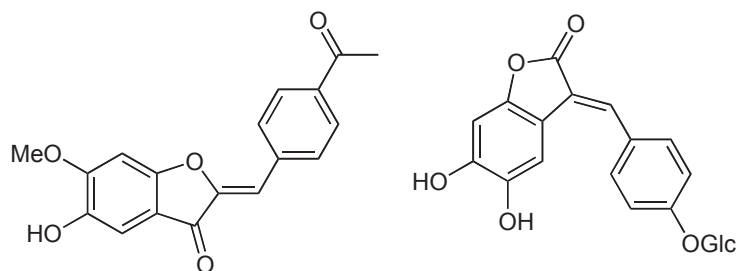
María A. Fernández-Herrera, Jesús Sandoval-Ramírez,\* Sara Montiel-Smith, and Socorro Meza-Reyes



Urazole    Triazolinedione    Nitrosonium Ion    Steroidal Diene    Anthracene

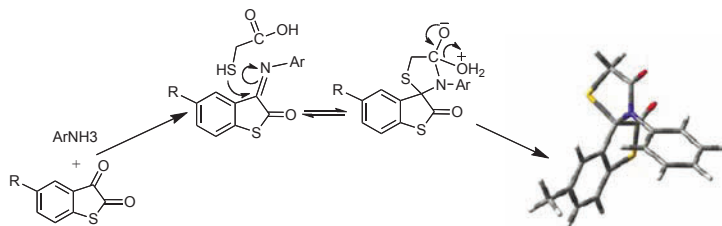
**583 Aurones and Isoaurones from the Flowers of *Rosa damascena* and Their Biological Activities**

Xue-Mei Gao, Li-Ying Yang, Xiang-Zhong Huang, Li-Dan Shu, Yan-Qiong Shen, Qiu-Fen Hu,\* and Zhang-Yu Chen\*


*Rosa damascena*    Aurone    Anti-HIV-1 Activity    Cytotoxicity

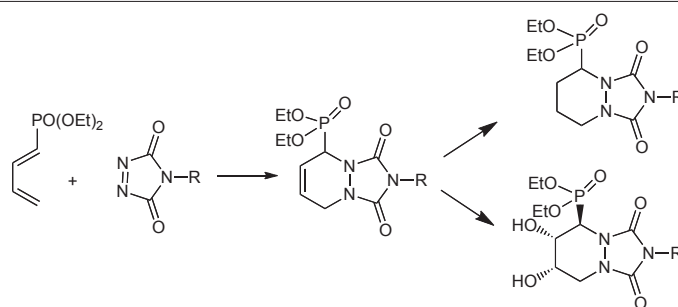
**591 Synthetic and Theoretical Approach towards Spirothiazolidinone Systems**

Johnson George, Saurabh Singh, Rahul Joshi, Pushpa Pardasani, and Ramchand T. Pardasani\*



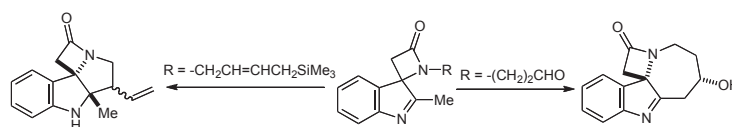
Spirothiazolidinone    Transition State    Schiff Base    Computational Chemistry

**599 Phosphonated Bicycles Bearing a N-N Junction**

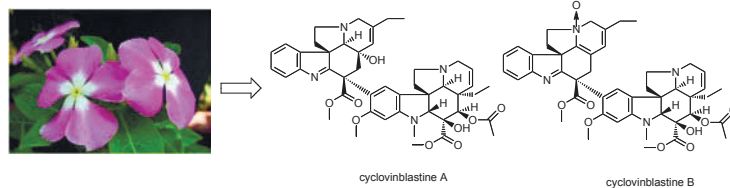
 Elise Villemin, Marie-France Herent, and  
 Jacqueline Marchand-Brynaert\*


Aza-heterocycle    Hetero-Diels-Alder Reaction    Phosphonate    Mass Spectrometry

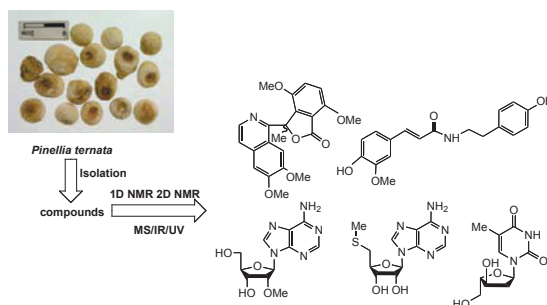
**611 Synthesis of Tetracyclic Indoline and Indolenine Derivatives Having  $\beta$ -Lactam Using Amphiphilic Reactivity of 2-Methylindolenine**

 Atsuo Nakazaki, Yukari Hara, Shigeo Kajii, and  
 Toshio Nishikawa\*

 Amphiphilic Reactivity    2-Methylindolenine     $\beta$ -Lactam    Indoline    Chartelline

**627 Further Bisindole Alkaloids from *Catharanthus roseus* and Their Cytotoxicity**

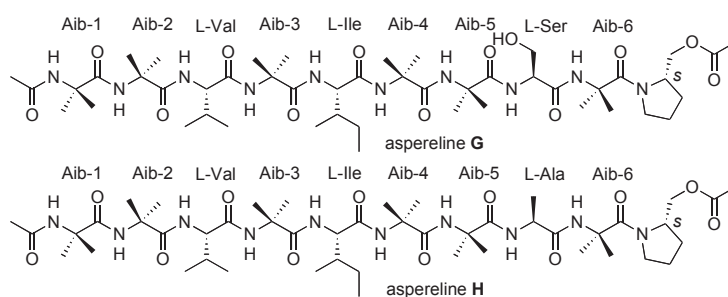
 Wei-Ku Zhang, Jie-Kun Xu, Hai-Yan Tian, Lei Wang,  
 Xiao-Qi Zhang, Xu-Zhi Xiao, Ping Li,\* and Wen-Cai Ye\*

*Catharanthus roseus*    Apocynaceae    Bisindole Alkaloid    Cytotoxicity

**SHORT PAPERS**
**637 Isolation and Structure Elucidation of Alkaloids from *Pinellia ternata***

 Zhihao Zhang, Wenjie Li, Ruichao Lin,\* Zhong Dai,\*  
 and Xiaofeng Li

*Pinellia ternata*    Alkaloid    Alkterlactone

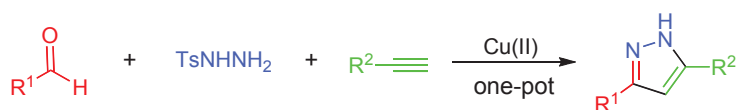
**645 Asperelines G and H, Two New Peptaibols from the Marine-Derived Fungus *Trichoderma asperellum***

Li Chen,\* Ping Zhong, Jian-Ru Pan, Kang-Jing Zhou, Kai Huang, Zhe-Xiang Fang, and Qi-Qing Zhang\*


 Marine-Derived Fungus *Trichoderma asperellum* Crystal Peptaibol Aspereline

**657 Synthesis of Pyrazoles through Copper-Catalyzed Three-Component Coupling of Aldehydes, Alkynes, and *p*-Toluenesulfonylhydrazide**

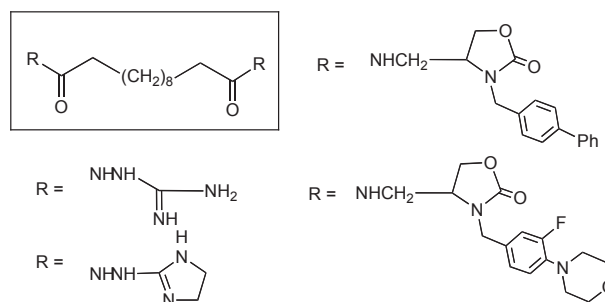
Feng Wu, Lu Hao, and Zhuang-ping Zhan\*



Pyrazole Copper-Catalyzed Coupling Reaction

**665 Synthesis, Chemical Properties, and Biological Evaluations of Some Twin-Drug Type C<sub>2</sub>-Symmetrical Derivatives**

Fumiko Fujisaki, Haruka Usami, Saya Nakashima, Sho Nishida, Toshihiro Fujioka, Nobuhiro Kashige, Fumio Miake, and Kunihiro Sumoto\*


 Aminoguanidine Oxazolidinone Symmetrical Molecule  $\alpha$ -Glucosidase Inhibition Activity Antibacterial Activity

**NEW HETEROCYCLIC NATURAL PRODUCTS**

- 677 Polyketides
- 681 Aromatics
- 689 Terpenes
- 698 Steroids
- 700 Alkaloids
- 709 Miscellaneous

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

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- 711 Polyketides
  - 716 Aromatics
  - 719 Terpenes
  - 721 Alkaloids
  - 727 Miscellaneous
-

**Contributors  
To This Issue**

- 645 Chen, Li  
583 Chen, Zhang-Yu  
637 Dai, Zhong  
551 Enzensperger, Christoph  
645 Fang, Zhe-Xiang  
571 Fernández-Herrera, María A.  
665 Fujioka, Toshihiro  
665 Fujisaki, Fumiko  
583 Gao, Xue-Mei  
591 George, Johnson  
559 Godajdar, Bijan Mombani  
657 Hao, Lu  
611 Hara, Yukari  
559 Hashemi, Mohammad Mahmoodi  
599 Herent, Marie-France  
583 Hu, Qiu-Fen  
645 Huang, Kai  
583 Huang, Xiang-Zhong  
527 Ishibashi, Hiroyuki  
591 Joshi, Rahul  
611 Kajji, Shigeo  
547 Karikomi, Michinori  
665 Kashige, Nobuhiro  
559 Kiasat, Ali Reza  
547 Kimura, Takao  
551 Lehmann, Jochen  
627 Li, Ping  
637 Li, Wenjie  
637 Li, Xiaofeng  
637 Lin, Ruichao  
599 Marchand-Brynaert, Jacqueline  
571 Meza-Reyes, Socorro  
665 Miake, Fumio  
493 Moderhack, Dietrich  
571 Montiel-Smith, Sara  
665 Nakashima, Saya  
611 Nakazaki, Atsuo  
665 Nishida, Sho  
611 Nishikawa, Toshio  
551 Otto, Robert  
645 Pan, Jian-Ru  
591 Paldasani, Pushpa  
591 Paldasani, Ramchand T.  
547 Salim, Mohammad  
571 Sandoval-Ramírez, Jesús  
583 Shen, Yan-Qiong  
583 Shu, Li-Dan  
591 Singh, Saurabh  
665 Sumoto, Kunihiro  
527 Taniguchi, Tsuyoshi  
627 Tian, Hai-Yan  
665 Usami, Haruka  
599 Villemín, Elise  
627 Wang, Lei  
657 Wu, Feng  
627 Xiao, Xu-Zhi  
627 Xu, Jie-Kun  
583 Yang, Li-Ying  
627 Ye, Wen-Cai  
657 Zhan, Zhuang-ping  
645 Zhang, Qi-Qing  
627 Zhang, Wei-Ku  
627 Zhang, Xiao-Qi  
637 Zhang, Zhihao  
645 Zhong, Ping  
645 Zhou, Kang-Jing