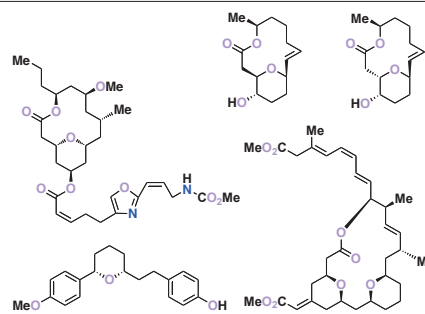


■ REVIEWS

**1255 Total Synthesis of Tetrahydropyran-Containing Natural Products Exploiting Intramolecular Oxa-Conjugate Cyclization**

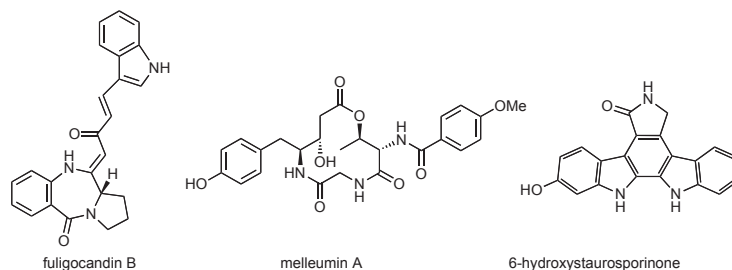
Haruhiko Fuwa\*



Total Synthesis    Oxa-Conjugate Addition    Oxa-Michael Addition    Tetrahydropyran    Macrolide

**1299 Bioactive Natural Products from Myxomycetes Having Effects on Signaling Pathways**

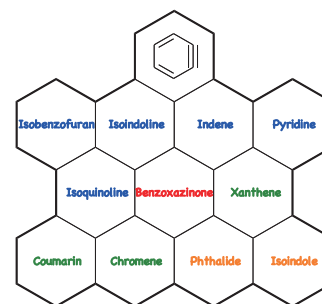
Masami Ishibashi\* and Midori A. Arai



Myxomycete    Screening    Signaling Pathway

**1333 Multicomponent Coupling Reaction of Arynes for Construction of Heterocyclic Skeletons**

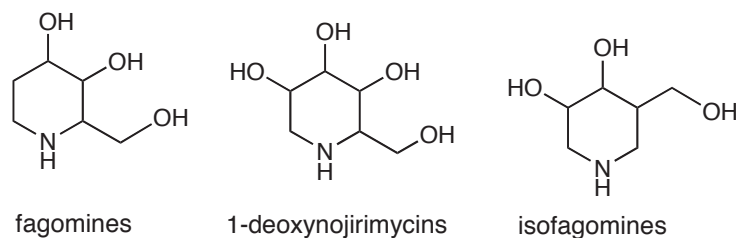
Hiroto Yoshida\* and Ken Takaki



Aryne    Electrophilicity    Multicomponent Coupling Reaction    Nucleophile    Zwitterion

**1351 Chiral Synthesis of Iminosugars**

Hiroki Takahata\*

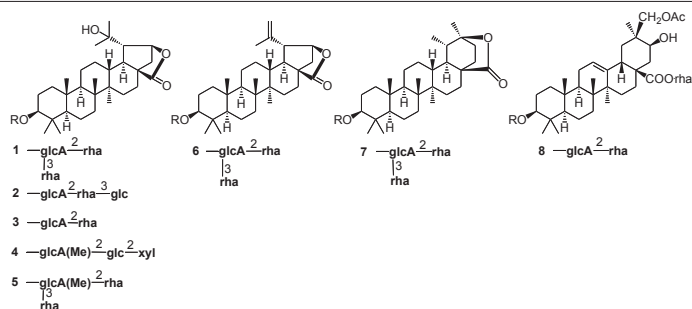


Iminosugar    Chiral Synthesis    Glycosidase Inhibitor    Both Enantiomers    Ring-Closing Metathesis

## ■ PAPERS

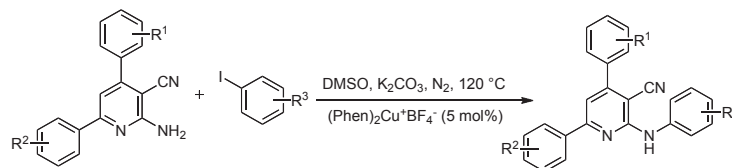
**1377 New Triterpenoid Saponins from *Stenocereus eruca***

Kazutaka Kakuta, Takeshi Koike, Kaoru Kinoshita, Satoru Ito, Kiyotaka Koyama, and Kunio Takahashi\*


*Stenocereus eruca*    Saponin    Thurberoside A    Phillyriside A    Treleaseside A

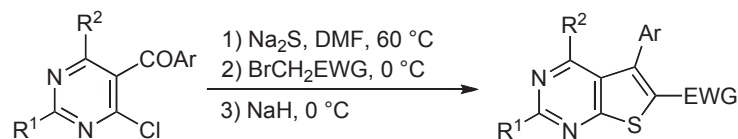
**1393 Expedient *N*-Arylation for the Synthesis of 2-Arylamino-3-cyanopyridines Using Ionic Copper(I) Complex as a Catalyst**

Min Zhang,\* Biao Xiong, Ting Wang, Xiaoting Wang, Fengxia Yan, and Yuqiang Ding\*


*N*-Arylation    2-Arylamino-3-cyanopyridine    Aryl Halide    Copper Catalysis    Ullmann Coupling

**1405 Synthesis of 5,6-Disubstituted Thieno[2,3-*d*]pyrimidines from 4-Chloropyrimidines**

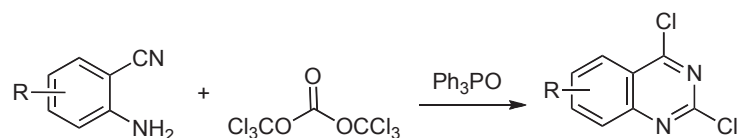
Kazuhiro Kobayashi,\* Teruhiko Suzuki, Taketoshi Kozuki, Naoki Matsumoto, Hidetaka Hiyoshi, and Kazuto Umezumi


 $R^1 = \text{H, SMe}; R^2 = \text{OMe, NR}_2; \text{Ar} = \text{aryl, heteroaryl}$   
 $\text{EWG} = \text{CN, CO}_2\text{Bu-tert, CPh}$ 

 Thieno[2,3-*d*]pyrimidine    4-Chloropyrimidine    4-Chloro-5-lithiopyrimidine    Sodium Sulfide    Thiophene Ring Formation

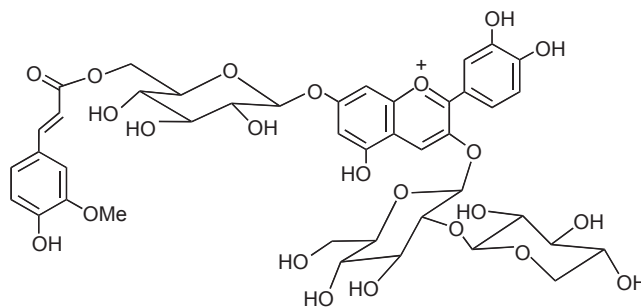
**1417 Facile and Efficient Cyclization of Anthranilonitrile to 2,4-Dichloroquinazoline by Bis(trichloromethyl) Carbonate and Catalytic Amount Triphenylphosphine Oxide**

Zhenhua Li, Danli Wu, and Weihui Zhong\*


 2,4-Dichloroquinazoline    Bis(trichloromethyl) Carbonate    Triphenylphosphine Oxide    Anthranilonitrile    2,4-Dichlorothieno[2,3-*d*]pyrimidine

**1427 Floral Pigments Isolated from the Sky-Blue Flowers of *Oxypetalum caeruleum***

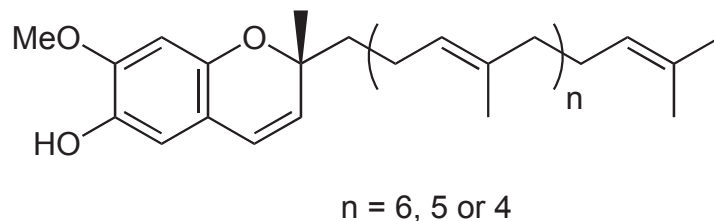
Norio Saito, Kenjiro Toki, Toshio Honda, and Fumi Tatsuzawa\*


*Oxypetalum caeruleum* 'Caerulea'    Cyanidin 3-Sambubioside-7-feruloylglucoside    Quercetin 3-Sambubioside    Intermolecular Copigmentation

■ SHORT PAPERS

**1437 Identification of New Polyprenyl Hydroquinone Derivatives from Tropical Marine Sponge *Ircinia* sp.**

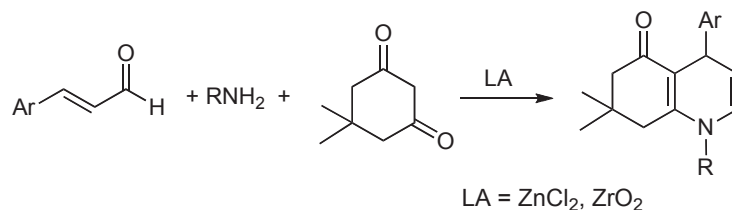
Hyi-Seung Lee,\* Yeon-Ju Lee, Jong Wook Lee, Hee Jae Shin, Jong Seok Lee, Kil-Nam Kim, Weon-Jong Yoon, Soo-Jin Heo, and Hye-Kyeong Kim\*



Tropical Sponge    *Ircinia* species    Polyprenyl Hydroquinone    Chromene    Anti-Inflammatory Activity

**1447 Efficient Synthesis of *N*-Substituted 4-Arylquinoline Derivatives Using  $ZnCl_2$  or  $ZrO_2$**

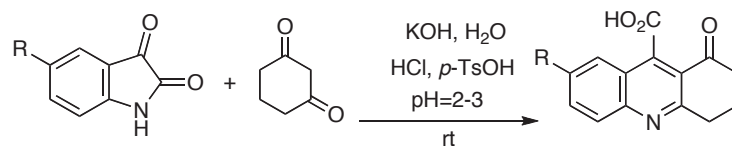
Afsaneh Zonouzi,\* Roghieh Mirzazadeh, Azadeh Peivandi, and Shahrzad Dehdari



*N*-Substituted 4-Arylquinoline     $ZnCl_2$      $ZrO_2$     Hantzsch Reaction    One-Pot Reaction

**1457 Improved Synthesis of 1-Oxo-1,2,3,4-tetrahydroacridine-9-carboxylic Acids from Isatins and 1,3-Cyclohexanedione**

Qinghua Lv, Lizhen Fang,\* Chenjuan Lu, and Pengfei Wang



Pfitzinger Reaction    Isatin    Diketone    Quinoline-4-carboxylic Acid

■ NEW HETEROCYCLIC NATURAL PRODUCTS

- 1465 Polyketides
- 1471 Aromatics
- 1479 Terpenes
- 1495 Steroids
- 1500 Alkaloids
- 1509 Miscellaneous

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

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- 1511 Polyketides
  - 1515 Aromatics
  - 1517 Terpenes
  - 1519 Steroids
  - 1520 Alkaloids
-

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To This Issue**

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