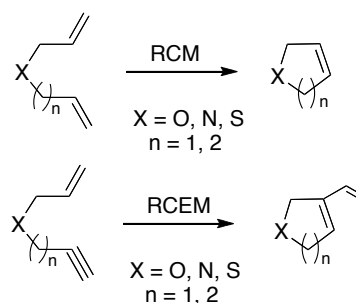


## ■ REVIEW

**1109 Synthesis of Five- and Six-Membered Heterocyclic Compounds by the Application of the Metathesis Reactions**

Krishna C. Majumdar,\* Sanjukta Muhuri, Rafique Ul Islam, and Buddhadeb Chattopadhyay



Ring Closing

Ring Opening Metathesis

Domino Metathesis

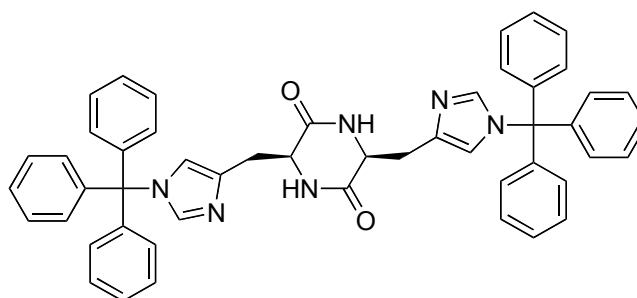
Five-Membered Heterocycle

Six-Membered Heterocycle

## ■ COMMUNICATIONS

**1171 Cyclo[His-His-] Derived  $C_2$ -Symmetric Diketopiperazine as Chiral Ligand for Asymmetric Diels-Alder Reactions**

Masahiro Furutani, Seiji Sakamoto, and Kazuaki Kudo\*



Cyclic Dipeptide

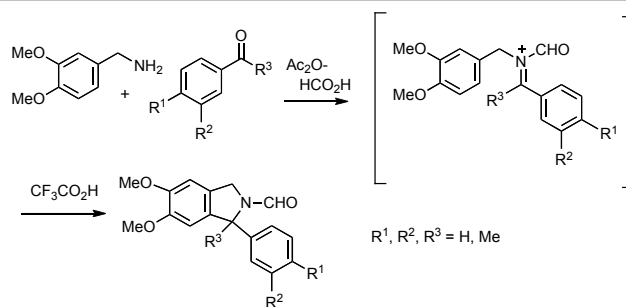
Bidentate Ligand

Cu-Catalyzed Reaction

Enantioselectivity

**1177 Facile Synthesis of 1-Aryl-2,3-dihydro-1*H*-isoindoles by Cyclization of *N*-Formyliminium Ion *via* Geometrically Disfavored 5-*Endo*-trig Process**

Michikazu Kitabatake, Toshiaki Saitoh, Takehiro Sano, and Yoshie Horiguchi\*



1-Arylisindoline

Pictet-Spengler Reaction

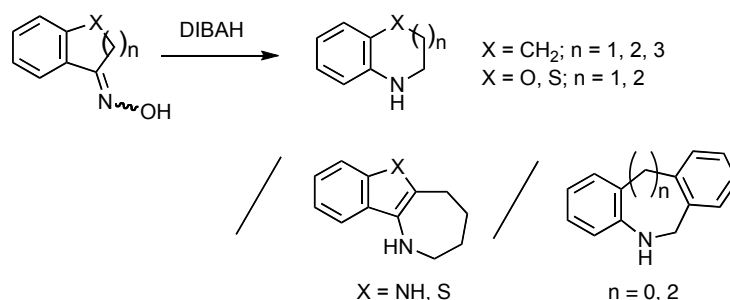
Acid Catalyzed Cyclization

Iminium Ion

One Pot Procedure

**1183 Regiospecific Synthesis of Unsubstituted Basic Skeletons of Heterocycles Containing Nitrogen Neighboring an Aromatic Ring by the Reductive Ring Expansion Reaction Using Diisobutylaluminum Hydride**

Hidetsura Cho,\* Yusuke Iwama, Kenji Sugimoto, Eunsang Kwon, and Hidetoshi Tokuyama\*



Diisobutylaluminum Hydride (DIBALH)

Regiospecific Synthesis

Unsubstituted Basic Skeleton

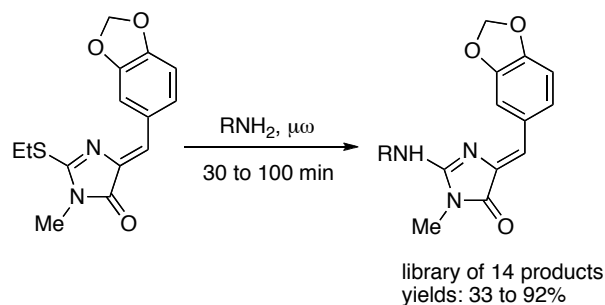
Rearrangement

Ring Expansion

## ■ PAPERS

**1191 An Efficient Method for the Preparation of New Analogs of Leucettamine B under Solvent-Free Microwave Irradiation**

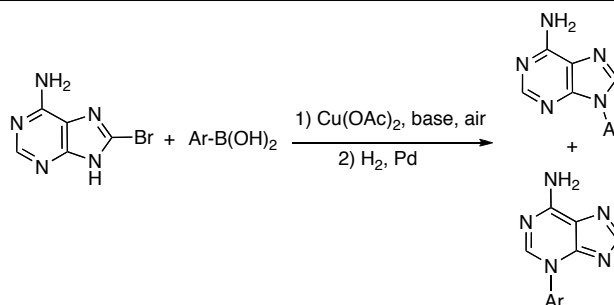
Mansour Debdab, Steven Renault, Samar Eid, Olivier Lozach, Laurent Meijer, François Carreaux,\* and Jean Pierre Bazureau\*



Leucettamine B    2-Aminoimidazolone    Marine Alkaloid    Microwave    Substitution

**1205 Copper-Mediated N-Arylation in the Synthesis of Aryladenines**

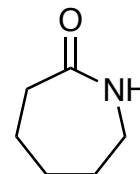
Jan Krouželka and Igor Linhart\*



N-Arylation    Purine    DNA Adduct    Aryladenine

**1217 Caprolactam, an Inhibitory Allelochemical Exuded from Germinating Buckwheat (*Fagopyrum esculentum*) Seeds**

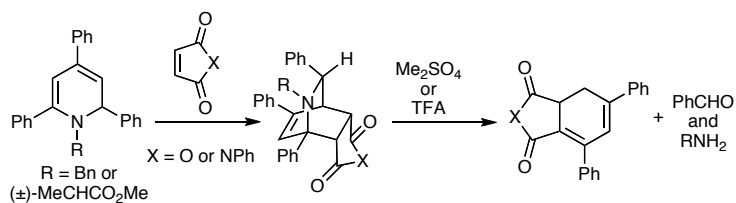
Wai Wai Thet Tin,\* Hisayoshi Hayashi, Toshihiko Otomatsu, Katsutoshi Hirose, Koji Hasegawa, and Hideyuki Shigemori



Allelochemical    Buckwheat    Caprolactam    *Fagopyrum esculentum*    Growth-Inhibiting Substance

**1223 Synthesis and Retro Aza Diels-Alder Reaction of Some New Isoquinuclidine Derivatives**

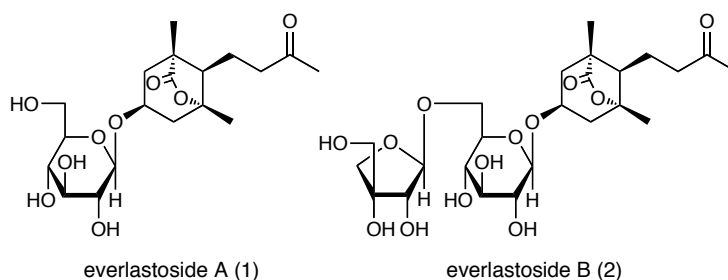
Liliana Marzorati,\* Patricia Busko Di Vitta, Blanka Wladislaw, Julio Zukerman Schpector, and Claudio Di Vitta\*



Retro-Aza Diels-Alder Reaction    Isoquinuclidine    *endo*-Anti Adduct    1,2-Dihydropyridine    Phenyl Substituted Diene

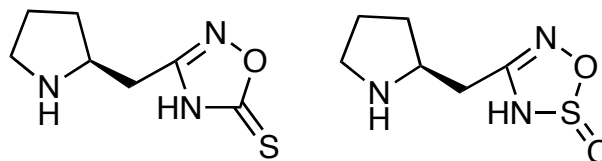
**1235 Medicinal Flowers. XXVIII. Structures of Five New Glycosides, Everlastosides A, B, C, D, and E, from the Flowers of *Helichrysum arenarium***

Li-Bo Wang, Toshio Morikawa, Seikou Nakamura, Kiyofumi Ninomiya, Hisashi Matsuda, Osamu Muraoka, Li-Jun Wu, and Masayuki Yoshikawa\*



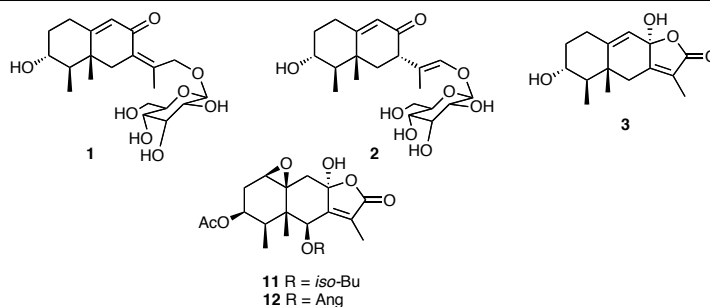
*Helichrysum arenarium*    Everlastoside    Asteraceae    Everlasting    Medicinal Flower

**1243 Synthesis of Homoproline Analogues Containing Heterocyclic Rings and Their Activity as Organocatalysts for Michael Reaction**

 Efrosini Barbayanni, Paola Bouzi,  
 Violetta Constantinou-Kokotou, Valentine Ragoussis,  
 and George Kokotos\*


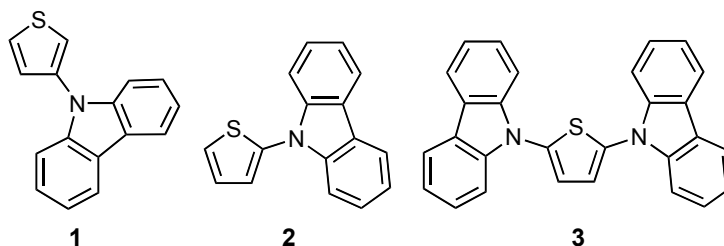
Michael Reaction    Organocatalysis    2-Oxo-1,2,3,5-oxathiazole    Proline    5-Thio-1,2,4-oxadiazole

**1253 Eremophilane Derivatives from *Pittocaulon praecox***

 Amira Arciniegas,\* Ana-L. Pérez-Castorena, Erick Gastélum,  
 José Luis Villaseñor, and Alfonso Romo de Vivar


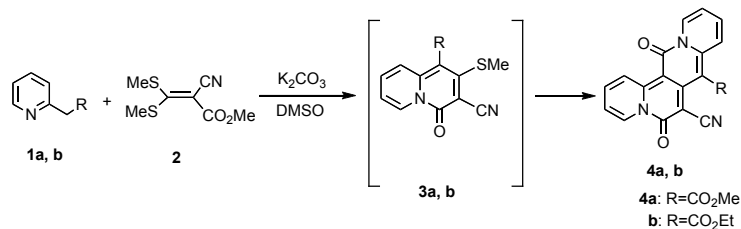
Eremophilane Glucoside    Asteraceae    Senecioneae

**■ NOTES**
**1265 Substituent Effects on Photophysical Properties of *N*-Thienylcarbazoles**

 Hideyuki Shimizu, Atsushi Kobayashi, Shingo Itoi,  
 Toshitada Yoshihara, Seiji Tobita, Yosuke Nakamura,\*  
 and Jun Nishimura


Thiophene    Carbazole    Absorption Spectrum    Fluorescence    Phosphorescence

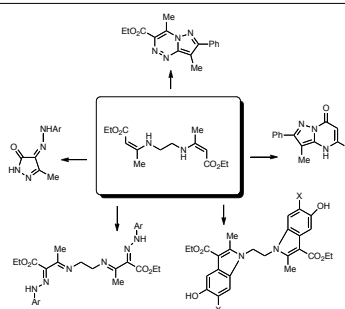
**1271 Synthesis of Quinolizino[3,2-*a*]quinolizine Derivatives and Their Fluorescence**

 Kenichirou Yokota, Masayori Hagimori,  
 Yasuhiro Shigemitsu, Naoko Mizuyama,  
 Bo-Cheng Wang, and Yoshinori Tominaga\*


Quinolizine    Solid State    Red Fluorescence    Ketene Dithioacetal    Organic Electronluminescent

**1281 Convenient Synthesis of Novel Bis(hydrazone) and Bis-(indole) Derivatives**

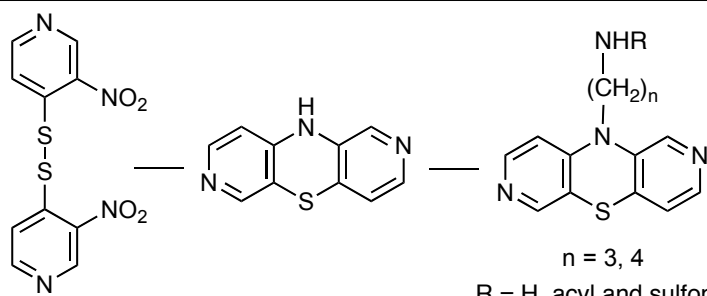
Nabila A. Kheder\*



Bis(hydrazone)    Bis(indole)    Pyrazolo[5,1-d][1,2,4]triazine

**1289 Acyl and Sulfonyl Derivatives of 10-Aminoalkyl-2,7-diazaphenothiazines**

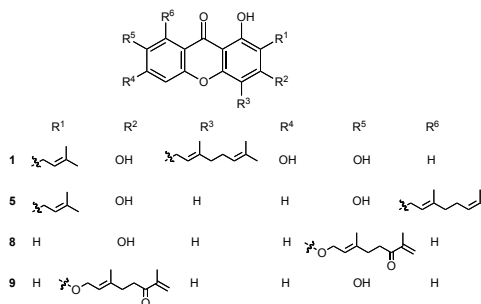
Beata Morak-Młodawska and Krystian Pluta\*



Azaphenothiazine    Dipyrithiazine    Acylaminoalkylazaphenothiazine    Sulfonylaminoalkylazaphenothiazine    Anticancer Activity

**1299 New Xanthenes from the Barks and Fruits of *Cratoxylum cochinchinense***

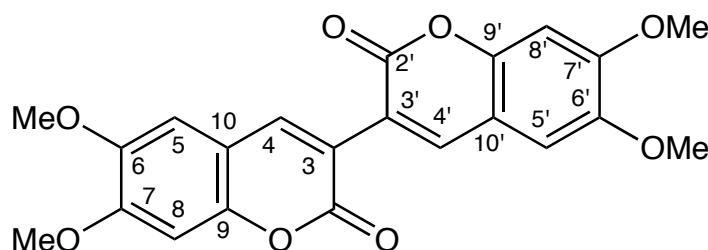
Surat Laphookhieo,\* Wisanu Maneerat, Wanwasan Narmdorkmai, and Sorwaporn Koysomboon



*Cratoxylum cochinchinense*    Clusiaceae    Polyoxygenated Xanthone    Cochinxanthone

**1309 Chemical Constituents and Cytotoxicity from the Stem Bark of *Citrus medica***

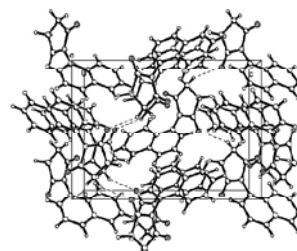
Yu-Yi Chan, Tian-Shung Wu,\* and Yao-Haur Kuo



*Citrus medica* L. var. *sarcodactylis* Swingle    Rutaceae    Biscoumarin    Citrumedin-A

**1317 Studies on the Synthesis and Crystal Structure of *N*-(1-Naphthyl)succinimide**

Ying Wang, Hailong Yang, Hexian Li, and Guochang Wang\*



packing pattern of NaS compound

*N*-(1-Naphthyl)succinimide    X-Ray Single Crystal Diffraction    Single Crystal    Infrared Spectrum    Fluorescence Spectrum

■ NEW HETEROCYCLIC NATURAL PRODUCTS

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- 1325 Polyketides
  - 1328 Aromatics
  - 1339 Terpenes
  - 1350 Steroids
  - 1352 Alkaloids
  - 1362 Miscellaneous
- 

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

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- 1365 Polyketides
  - 1369 Aromatics
  - 1371 Terpenes
  - 1374 Alkaloids
  - 1384 Miscellaneous
-

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