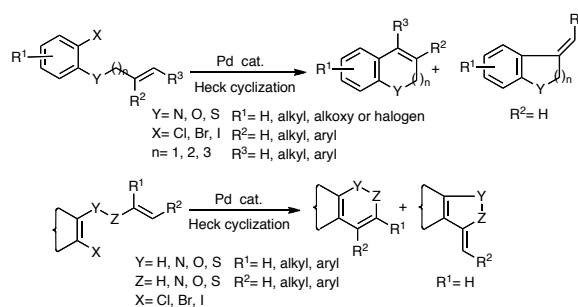


■ REVIEWS

1979 **Recent Advances in the Application of the Heck Reaction in the Synthesis of Heterocyclic Compounds**

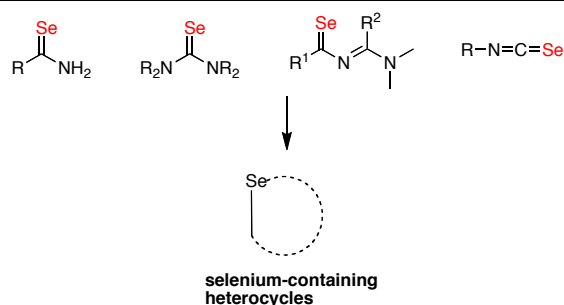
Majid M. Heravi\* and Azadeh Fazeli



Heck Reaction    Heterocyclic Compound    Cyclization    Palladium    Intramolecular Reaction

2027 **Selenium-Containing Heterocycles Using Selenoamides, Selenoureas, Selenazadienes, and Isoselenocyanates**

Masayuki Ninomiya, Dinesh R. Garud, and Mamoru Koketsu\*

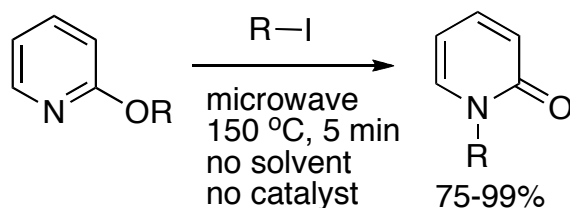


Selenium-Containing Heterocycle    Selenoamide    Selenourea    Selenazadiene    Isoselenocyanate

■ COMMUNICATION

2057 **Microwave Assisted Rapid Preparation of *N*-Alkyl-2-pyridones under Neutral Conditions by Hilbert-Johnson Reaction**

Hirokazu Iida,\* Machiko Suda, Etsuko Nakajima, Hiroko Hakamatsuka, Yuka Nagashima, Kouta Joho, Kenta Amemiya, Tatsuya Moromizato, Kiyoshi Matsumoto, Yasuoki Murakami, and Hiroshi Hamana\*



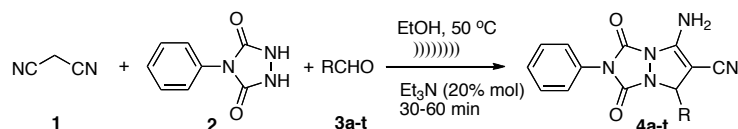
R = Me, Pr, *n*-Bu, *n*-Pent, *n*-Hex, *n*-Hept

Microwave Reaction    *N*-Alkyl-2-pyridone    No Solvent Reaction    No Catalyst Reaction    High Pressure Reaction

## ■ PAPERS

**2063 Ultrasonic-Assisted One-Pot Synthesis of Pyrazolo[1,2-*a*]-[1,2,4]triazole-1,3-diones**

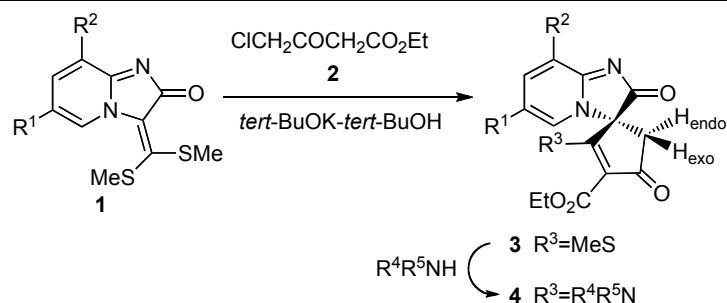
Davood Azarifar\* and Razieh Nejat Yami



Malononitrile    Urazole    Pyrazolotriazole    Ultrasound    Triethylamine

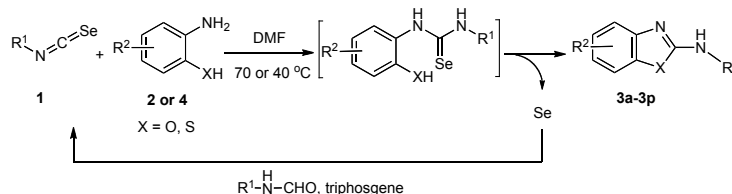
**2075 Synthesis of Spiro[2-cyclopentene-1,3'-imidazo[1,2-*a*]pyridine] Derivatives and Their Interesting Behavior in <sup>1</sup>H-NMR Spectra in Deuteriochloroform**

Takashi Abe, Akikazu Kakehi,\* Hiroyuki Suga, Yukihisa Okumura, and Kennosuke Itoh


 Imidazo[1,2-*a*]pyridine    Spiro[2-cyclopentene-1,3'-imidazo[1,2-*a*]pyridine]    Synthesis    Concentration Dependency of Proton Signal    X-Ray Analysis

**2087 An Efficient Synthesis of 2-Aminobenzoxazoles and 2-Aminobenzothiazoles from 2-Aminophenols or 2-Aminothiophenols and Isoselenocyanates**

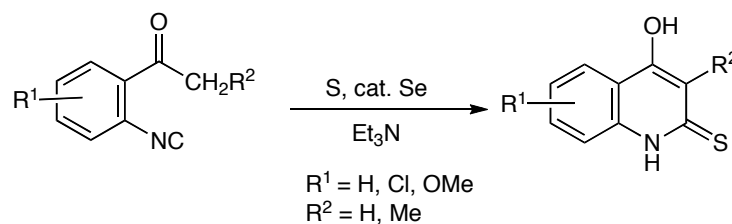
Yuanyuan Xie,\* Fan Zhang, Xiaodong Chen, and Jianjun Li



Isoselenocyanate    2-Aminobenzoxazole    2-Aminobenzothiazole    Deselenizing Reaction    Synthesis

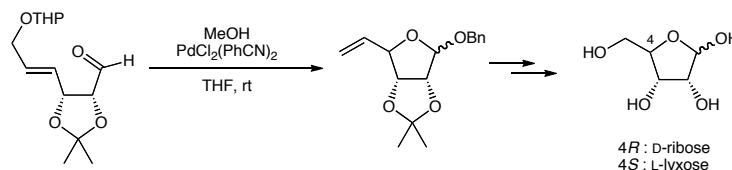
**2097 Cyclization Reactions of 2-Isothiocyanatophenyl Ketones Giving 4-Hydroxyquinoline-2(1*H*)-thiones and 4-Alkylidene-1,4-dihydro-3,1-benzoxazine-2-thiones**

Kazuhiro Kobayashi,\* Toshihide Komatsu, Shuhei Fukamachi, and Hisatoshi Konishi


 Electrocyclic Reaction    4-Hydroxyquinoline-2(1*H*)-thione    1,4-Dihydro-3,1-benzoxazine-2-thione    2-Isothio- and 2-Isocyanophenyl Ketones

**2105 A Novel Pentose Synthesis *via* Palladium(II)-Catalyzed Cyclization of an Unstable Hemiacetal**

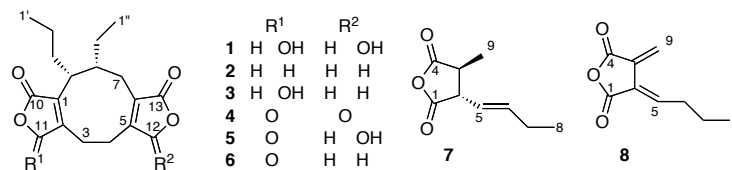
Ken-ichiro Awasaguchi, Masahiro Miyazawa,\* Ikuyo Uoya, Koichi Inoue, Koji Nakamura, Hajime Yokoyama, and Yoshiro Hirai\*



Palladium Catalyst    Hemiacetal    Tetrahydrofuran    Cyclization    Pentose

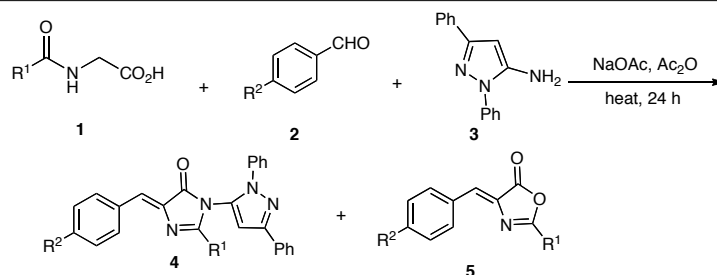
**2123 New Nonadride Analogues from a Freshwater Isolate of an Undescribed Fungus Belonging to the Order Pleosporales**

Tomoo Hosoe, James B. Gloer,\* Donald T. Wicklow, Huzefa Raja, and Carol A. Shearer


 Genus *Messama* Fungus Nonadride Messafranone Antifungal Activity

**NOTES**
**2131 New and Convenient Route for the Synthesis of Some New Pyrazol-5-yl-1H-imidazole Derivatives**

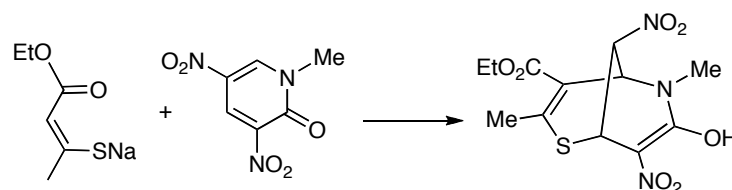
Afsaneh Zonouzi,\* Roghieh Mirzazadeh, Marzieh Talebi, Razieh Jafarypoor, Azadeh Peivandi, and Seik Weng Ng


 R<sup>1</sup> = Me, Ph; R<sup>2</sup> = H, Cl, Br, NO<sub>2</sub>, Me, OMe

One-Pot Reaction Solvent-Free Synthesis Pyrazol-5-yl-1H-imidazole Oxazolone X-Ray Structure Determination

**2139 One-Step Construction of 6-Aza-2-thiabicyclo[3.3.1]nona-3,7-diene Framework**

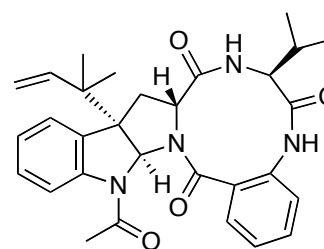
Nagatoshi Nishiwaki\* and Kazuya Kobiro



Dinitropyridone Bicyclic Compound Thioketo Ester Bridgehead Coupling Stepwise Addition

**2143 A Novofumigatamide, New Cyclic Tripeptide from *Aspergillus novofumigatus***

Kazuki Ishikawa, Tomoo Hosoe,\* Takeshi Itabashi, Kayoko Takizawa, Takashi Yaguchi, and Ken-ichi Kawai



novofumigatamide

*Aspergillus novofumigatus* Novofumigatamide Fungus Cyclic Tripeptide

■ NEW HETEROCYCLIC NATURAL PRODUCTS

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- 2149 Polyketides
  - 2150 Aromatics
  - 2160 Terpenes
  - 2172 Steroids
  - 2178 Alkaloids
  - 2184 Miscellaneous
- 

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

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- 2185 Polyketides
  - 2188 Aromatics
  - 2191 Terpenes
  - 2192 Alkaloids
  - 2202 Miscellaneous
-

**Contributors  
To This Issue**

- 2075 Abe, Takashi  
 2057 Amemiya, Kenta  
 2105 Awasaguchi, Ken-ichiro  
 2063 Azarifar, Davood  
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 1979 Fazeli, Azadeh  
 2097 Fukamachi, Shuhei  
 2027 Garud, Dinesh R.  
 2123 Gloer, James B.  
 2057 Hakamatsuka, Hiroko  
 2057 Hamana, Hiroshi  
 1979 Heravi, Majid M.  
 2105 Hirai, Yoshiro  
 2123, 2143 Hosoe, Tomoo  
 2057 Iida, Hirokazu  
 2105 Inoue, Koichi  
 2143 Ishikawa, Kazuki  
 2143 Itabashi, Takeshi  
 2075 Itoh, Kennosuke  
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 2139 Kobiro, Kazuya  
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 2131 Mirzazadeh, Roghieh  
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 2131 Peivandi, Azadeh  
 2123 Raja, Huzefa  
 2123 Shearer, Carol A.  
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 2075 Suga, Hiroyuki  
 2143 Takizawa, Kayoko  
 2131 Talebi, Marzieh  
 2105 Uoya, Ikuyo  
 2123 Wicklow, Donald T.  
 2087 Xie, Yuanyuan  
 2143 Yaguchi, Takashi  
 2063 Yami, Razieh Nejat  
 2105 Yokoyama, Hajime  
 2087 Zhang, Fan  
 2131 Zonouzi, Afsaneh