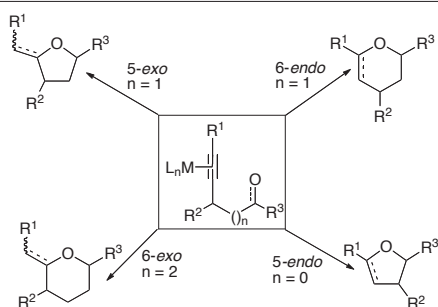


REVIEW

2661 **Metal-Catalyzed Heterocyclization: Formation of Five- and Six-Membered Oxygen Heterocycles through Carbon-Oxygen Bond Forming Reactions**

Krishna C. Majumdar,* Pradip Debnath, and B. Roy

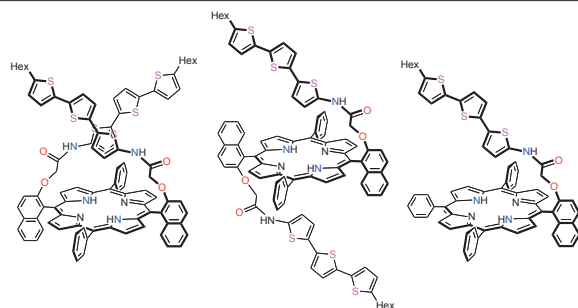


Metal-Catalyzed Reaction Heterocyclization Five- and Six-membered Heterocycles Synthesis of Heterocycle Carbon-Oxygen Bond Formation

COMMUNICATIONS

2729 **A Three-dimensionally Oriented π -Conjugated System: Synthesis of the Porphyrins Bearing Terthiophene Pendant Strands**

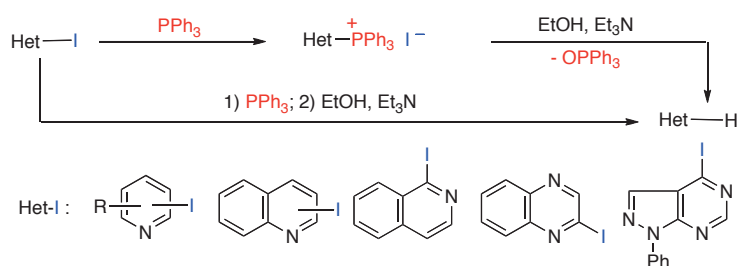
Toru Amaya, Koichi Mori, and Toshikazu Hirao*



Porphyrin Oligothiophene π -Conjugated Compound Atropisomer Redox-Active

2735 **Chemistry of Heteroaryltriphenylphosphonium Iodides: Preparation from Iodoheteroaromatics and Elimination of the Phosphonium Iodide Group Using Basic Solvents**

Akihiro Sato, Osamu Sugimoto,* and Ken-ichi Tanji*

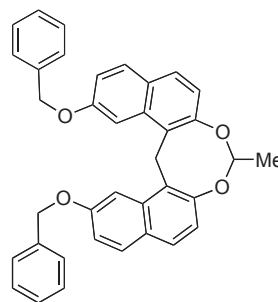


Iodoheteroaromatic Phosphonium Salt Deiodination Azine Diazine

■ PAPERS

2741 A Novel Molecular Cleft Based on Dioxocin Ring, Part I: Synthesis and Conformational Analysis

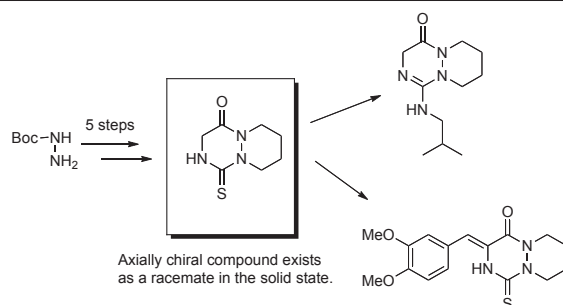
Bahareh Vafakish and Parviz Rashidi-Ranjbar*



Conformational Analysis NMR Spectroscopy Molecular Modeling GIAO Method Density Functional Theory

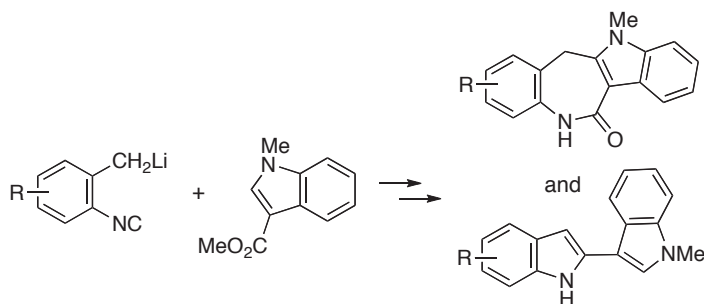
2755 The Synthesis, Structure and Reactivity of 1-Thioxo-tetrahydropyridazino[1,2-*a*][1,2,4]triazin-4(1*H*)-one

Sandra Jarrett,* Ainka Brown, and Marvadeen Singh-Wilmot


tert-Butyl Carbazate Hexahydropyridazine Bicyclic Compound Triazinone Benzylidene Compound

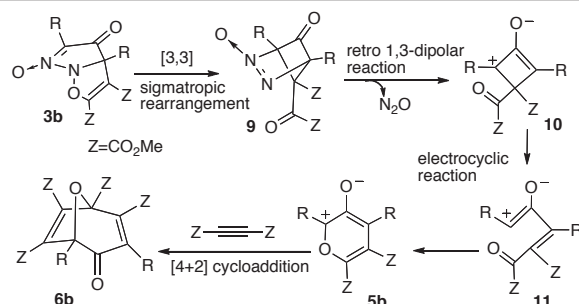
2769 Reactions of 2-(Lithiomethyl)phenyl Isocyanides with Methyl 1-Methylindole-3-carboxylate: Elaborations of the Adducts to 5*H*-Benz[2,3]azepino[5,6-*c*]indol-12-one and 2,3'-Biindolyl Derivatives

Kazuhiro Kobayashi,* Daisuke Nakai, Shuhei Fukamachi, and Hisatoshi Konishi


 2-(Lithiomethyl)phenyl Isocyanide 6,11-Dihydro-5*H*-benz[2,3]azepino[5,6-*c*]indol-12-one 2,3'-Biindolyl Michael Addition

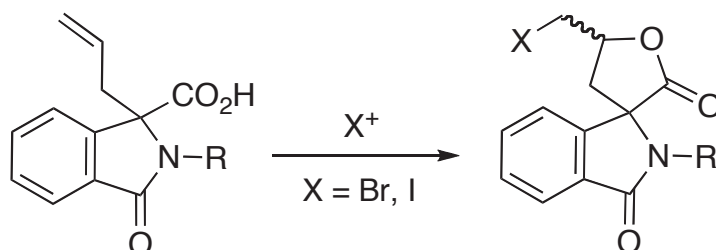
2777 Formation Pathway of Novel Cycloadduct Obtained by Reaction of 3,5-Disubstituted 4-Oxo-4*H*-pyrazole 1,2-Dioxide with Dimethyl Acetylenedicarboxylate

Yasuyuki Yoshitake, Koki Yamaguchi, and Kazunobu Harano*


 4-Oxo-4*H*-pyrazole 1,2-Dioxide Dimethyl Acetylenedicarboxylate 1,3-Dipolar Reaction [3,3] Sigmatropic Rearrangement Cascade Reaction

2787 A Convenient Synthesis of Novel Spiroisindole γ -Halobutyrolactones *via* Halocyclization of γ -Ethylenic Acids

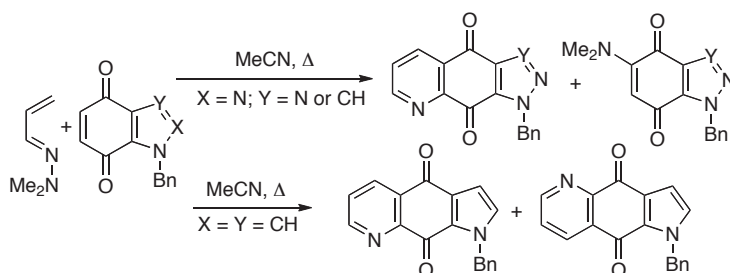
Mohamed M. Rammah, Mohamed Othman,* Kabula Ciamala, Michael Knorr, Carsten Strohmann, and Mohamed B. Rammah



Halolactonization Spirocyclization Spiroisindole Butyrolactone Exocyclic Lactone

2799 Diels-Alder Reactions between Acrolein *N,N*-Dimethylhydrazone and *N*-Benzylated Benzotriazole-, Indazole- or Indole-4,7-diones

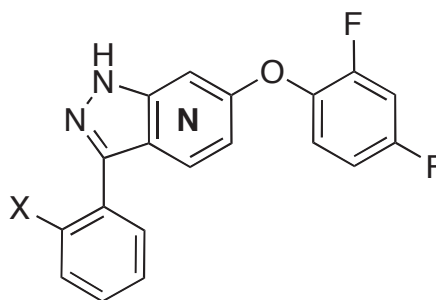
Christelle Marminon,* Bernard Fenet, Valeria Mignosi, Raphael Terreux, and Pascal Nebois



Nitrogen Heterocycle Cycloaddition Quinone 2D NMR

2811 Synthesis of Heteroaryl-Fused Pyrazoles as P38 Kinase Inhibitors

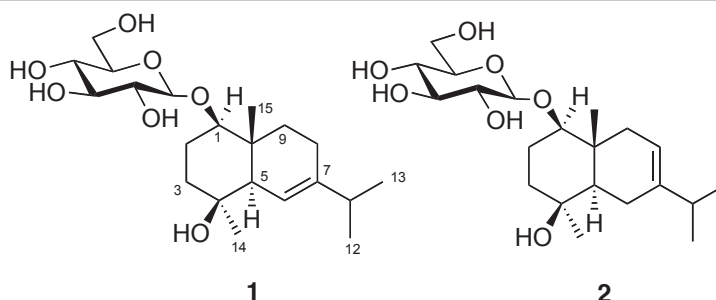
Sarah C. Abbot, Roland J. Billedeau, Nolan J. Dewdney, Tobias Gabriel, David M. Goldstein, Kristen L. McCaleb,* Michael Soth, Teresa Alejandra Trejo-Martin, and Hasim Zecic



Pyrazolopyridine Pyrazolopyrimidine Pyrazolopyrazine Cyclization Difluorophenol

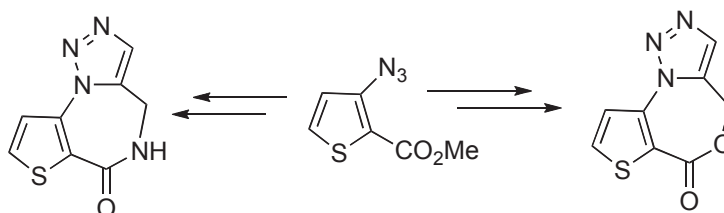
NOTES
2827 Two New Sesquiterpene Glucosides from *Gymnaster koraiensis*

Il Kyun Lee, Ki Hyun Kim, Shi Yong Ryu, and Kang Ro Lee*


Gymnaster koraiensis Compositae Sesquiterpene Polyacetylene

2837 Thieno[2,3-*f*]triazolo[1,5-*a*][1,4]diazepines and Thieno[2,3-*f*]triazolo[1,5-*a*][1,4]oxazepines from Azide Cycloaddition

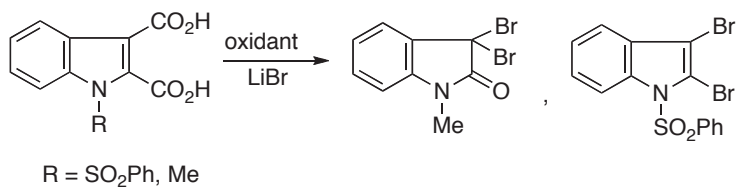
Giorgio Molteni* and Paola Del Buttero



Azide Cycloaddition Acetylenic Dipolarophile 1,2,3-Triazole Thienotriazolodiazepine Thienotriazoloxazepine

2845 Decarboxylative Bromination of Indole-2,3-dicarboxylic Acids Using Oxone® or CAN in the Presence of Lithium Bromide

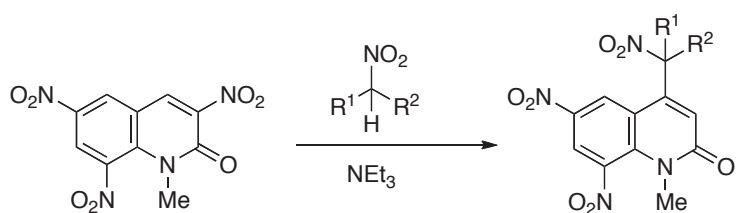
Hideaki Umemoto, Misako Umemoto, Chiaki Ohta, Masashi Dohshita, Hiroki Tanaka, Syo Hattori, Hiromi Hamamoto, and Yasuyoshi Miki*



Indole-2,3-dicarboxylic Acid Decarboxylation Bromination Chlorination Iodination

2851 Regioselective Nitroalkylation of the 1-Methyl-2-quinolone Framework

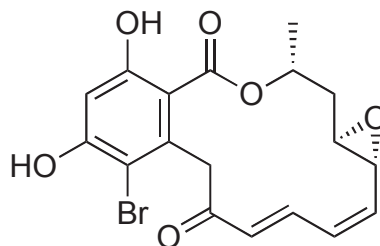
Motoki Asahara, Masaki Ohtsutsumi, Masahiro Ariga, and Nagatoshi Nishiwaki*



1-Methyl-2-quinolone *cis*-Substitution Trinitroquinolone Nitroalkylation Regioselective C-C Bond Formation

2855 13-Bromomonocillin I: A New WNT-5A Expression Inhibitor Produced by *Pochonia chlamydosporia* var. *chlamydosporia*

Hideki Shinonaga,* Noriyoshi Sakai, Yuriko Nozawa, Akiko Ikeda, Mari Aoki, and Akira Kawashima



13-Bromomonocillin I WNT-5A *Pochonia chlamydosporia* Radicolol Monocillin

NEW HETEROCYCLIC NATURAL PRODUCTS

- 2863 Polyketides
- 2866 Aromatics
- 2881 Terpenes
- 2891 Steroids
- 2893 Alkaloids
- 2901 Miscellaneous

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 2903 Polyketides
 - 2907 Aromatics
 - 2910 Terpenes
 - 2911 Alkaloids
-

**Contributors
To This Issue**

- 2811 Abbot, Sarah C.
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2851 Ariga, Masahiro
2851 Asahara, Motoki
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2755 Brown, Ainka
2787 Ciamala, Kabula
2661 Debnath, Pradip
2837 Del Buttero, Paola
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2855 Sakai, Noriyoshi
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2755 Singh-Wilmot, Marvadeen
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