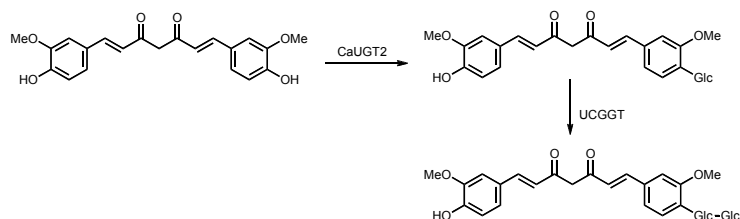


■ REVIEWS

645 Production of Unnatural Bioactive Glycosides Using Plant Secondary Product Glycosyltransferases

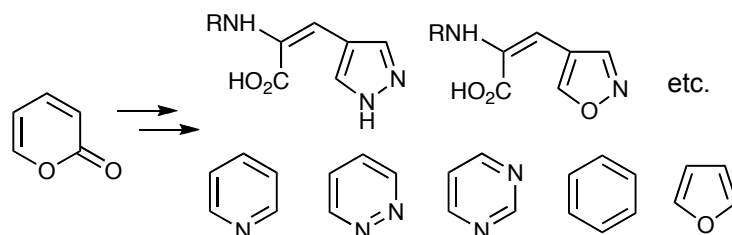
Sayaka Masada and Hajime Mizukami*



Curcumin Glycoside Synthesis Lipophilic Small Molecule Plant Glycosyltransferase Recombinant Enzyme

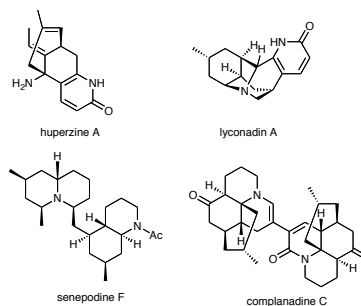
657 Ring Transformations of 2H-Pyran-2-ones and Fused Pyran-2-ones with Nucleophilic Reagents

Franc Požgan and Marijan Kočevar*


 Pyran-2-one Ring Transformation Heterocycle Carbocycle α,β -Didehydro- α -amino Acid Derivative

679 The *Lycopodium* Alkaloids

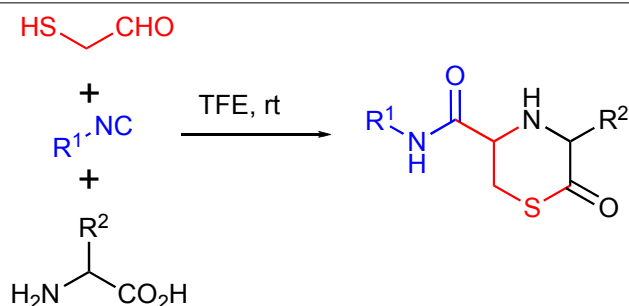
Yusuke Hirasawa, Jun'ichi Kobayashi, and Hiroshi Morita*


Lycopodium Alkaloid Structure Elucidation Total Synthesis Lycopodiaceae

■ COMMUNICATIONS

731 A Novel Δ -Thiolactone Scaffold by a Versatile Intramolecular Multicomponent Reaction

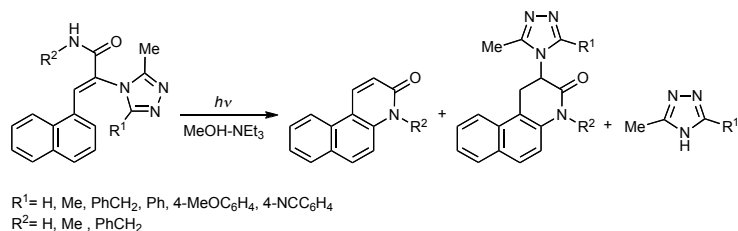
Stuti Srivastava, Barbara Beck, Eberhardt Herdtweck, Kareem Khoury, and Alexander Dömling*



Multicomponent Reaction Isocyanide Thiomorpholine

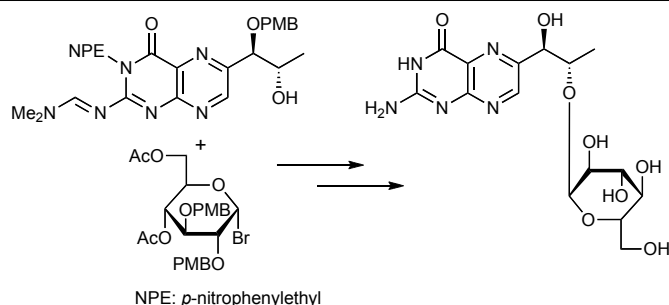
739 Novel Photoinduced Electon Transfer-initiated Cyclization of 1,2,4-Triazole-substituted α -Dehydronaphthylalaninamides in the Presence of Triethylamine

Kei Maekawa, Atsushi Tomoda, Tetsutaro Igarashi, and Tadamitsu Sakurai*


 Triazole α -Dehydroamino Acid Photochemistry Electron Transfer Benzoquinolinone

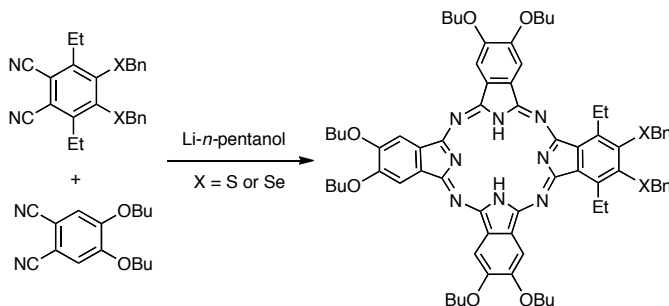
747 First Synthesis of Biopterin α -D-Glucoside

Tadashi Hanaya,* Hiroki Baba, and Hiroshi Yamamoto


 Pterine Glycoside Biopterin D-Glucoside Pteridine Selective α -Glycosylation Protecting Group

755 Preparation of Unsymmetric Phthalocyanines with Benzylchalcogeno and Butoxy Groups

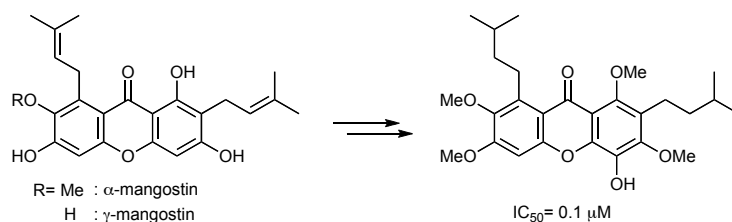
Takeshi Kimura,* Takeru Obonai, and Toshiharu Namaou



Phthalocyanine Sulfur Selenium UV-Vis Spectra Electrochemistry

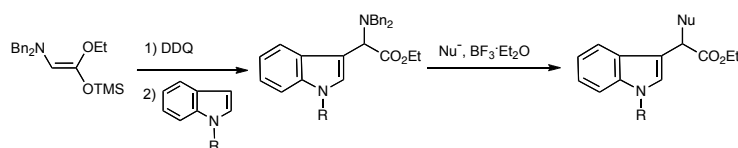
759 Synthetic Studies of Mangostin Derivatives with an Inhibitory Activity on PDGF-Induced Human Aortic Smooth Cells Proliferation

Yuko Nishihama, Takahisa Ogamino, Wen Lei Shi, Byung-Yoon Cha, Takayuki Yonezawa, Toshiaki Teruya, Kazuo Ngai, Kiyotake Suenaga, Je-Tae Woo, and Shigeru Nishiyama*


 Mangostin Human Aortic Smooth Muscle Cell *m*CPBA Oxidation Electrochemical Oxidation Xanthone

767 Friedel-Crafts Reaction of Indole Derivatives Using the Iminium Salt Generated by the Oxidation of Amino Ketene Silyl Acetal

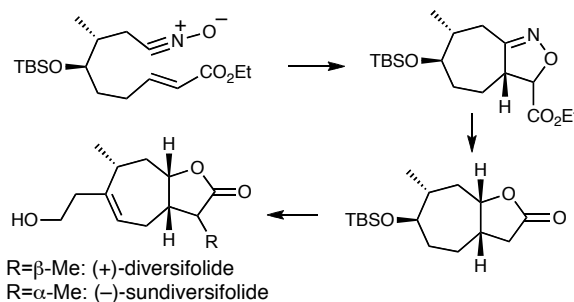
Takuya Iwao and Makoto Shimizu*



Friedel-Crafts Reaction Indole Iminium Salt Amino Ketene Silyl Acetal Double Addition

773 Synthesis of Sundiversifolide and Diversifolide via a Diastereoselective [3+2] Nitrile Oxide Cycloaddition Reaction

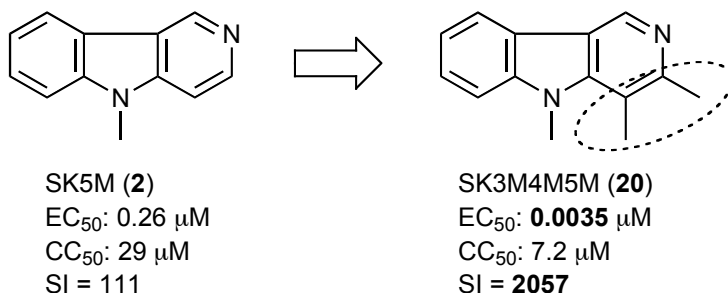
Hiroyuki Sasaki, Hiromasa Yokoe, Mitsuru Shindo, Masahiro Yoshida, and Kozo Shishido*



Sesquiterpene Diastereoselective Synthesis 1,3-Dipolar Cycloaddition Allelopathy Kinetic Protonation

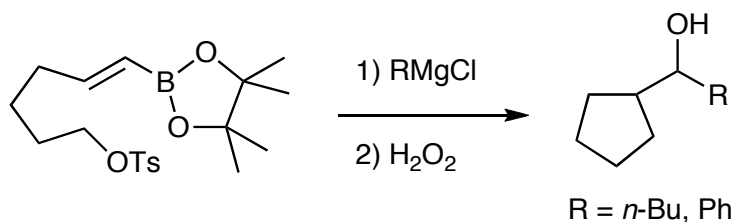
779 Polymethylated γ -Carbolines with Potent Anti-Bovine Viral Diarrhea Virus (BVDV) Activity

Hiroshi Aoyama,* Kumiko Sako, Shinichi Sato, Masahiko Nakamura, Hiroyuki Miyachi, Yukinori Goto, Mika Okamoto, Masanori Baba, and Yuichi Hashimoto


 Anti-BVDV Agent γ -Carboline Quantitative Structure-Activity Relationship (QSAR) Buchwald-Hartwig Amination Palladium-Catalyzed

787 Construction of Cyclopentyl Carbinols from ω -Tosyloxy-1-alkenyl Boronate Esters and Grignard Reagents

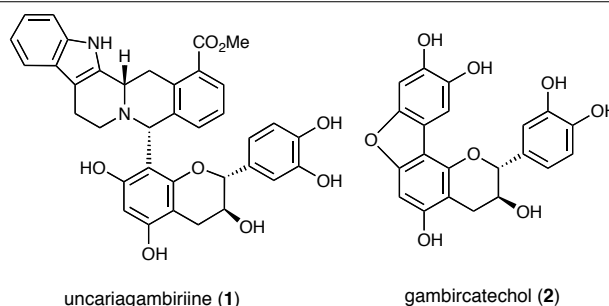
Yuichi Kobayashi,* Moriteru Asano, and Yohei Kiyotsuka



Borate Cyclization Migration Magnesium Pinacol

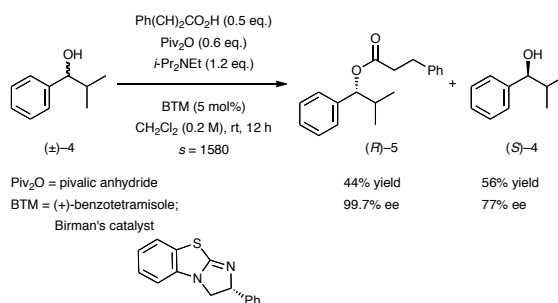
793 Uncariagambiriine and Gambircatechol: Novel Constituents of *Uncaria gambir* Leaves

Naomi Yoshikado, Shoko Taniguchi, Naoki Kasajima, Fumiaki Ohashi, Kou-ichi Doi, Takashi Shibata, Takashi Yoshida, and Tsutomu Hatano*


Uncaria gambir Rubiaceae Catechin Indole Alkaloid Polyphenol

801 2,2-Disubstituted Propionic Anhydrides: Effective Coupling Reagents for the Kinetic Resolution of Secondary Benzylic Alcohols Using BTM

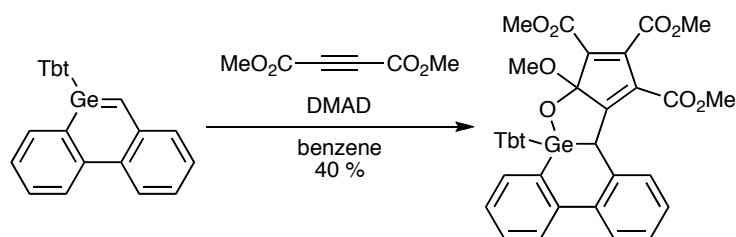
Isamu Shiina,* Kenya Nakata, Masuhiro Sugimoto, Yu-suke Onda, Takashi Iizumi, and Keisuke Ono



2,2-Disubstituted Propionic Anhydride Pivalic Anhydride Asymmetric Esterification Kinetic Resolution BTM

811 Reaction of 9-Germaphenanthrene with Dimethyl Acetylenedicarboxylate: Unexpected Formation of a 1,2-Oxagermolane Derivative

Yoshiyuki Mizuhata, Koji Inamura, and Norihiro Tokitoh*

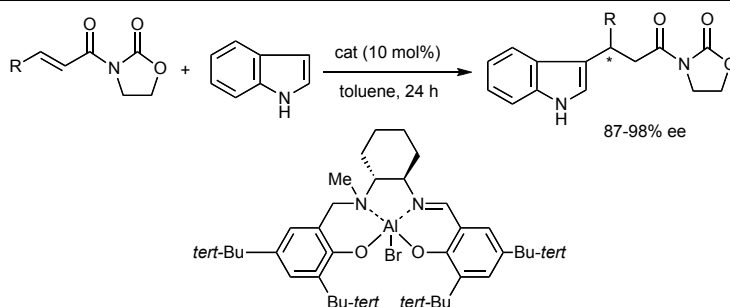


Tbt = 2,4,6-tris[bis(trimethylsilyl)methyl]phenyl

Heavy Aromatic Compound 9-Germaphenanthrene Germanium Cycloaddition Dimethyl Acetylenedicarboxylate

817 Asymmetric Lewis Acid Catalysis of Aluminum(Salalen) Complexes: Friedel-Crafts Reaction of Indole

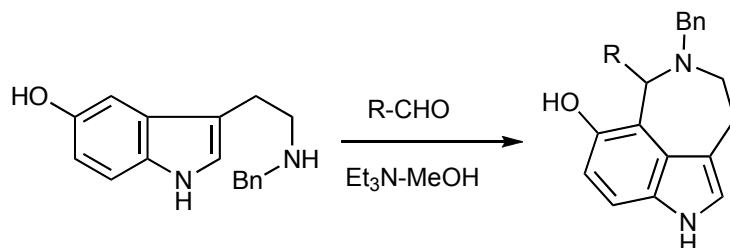
Keitaro Suyama, Kazuhiro Matsumoto, and Tsutomu Katsuki*



Asymmetric Reaction Friedel-Crafts Reaction Aluminum Indole Oxazolidinone

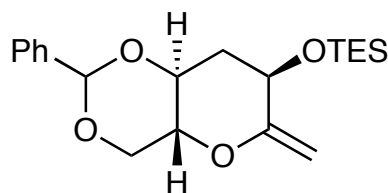
825 Reaction of *N*_β-Benzylserotonin with α,β-Unsaturated and Aryl Aldehydes in the Presence of a Base

Koji Yamada, Yuichi Namerikawa, Takumi Abe, and Minoru Ishikura*


 Azepino[5,4,3-*cd*]indole Serotonin Pictet-Spengler Reaction Aryl Aldehyde α,β-Unsaturated Aldehyde

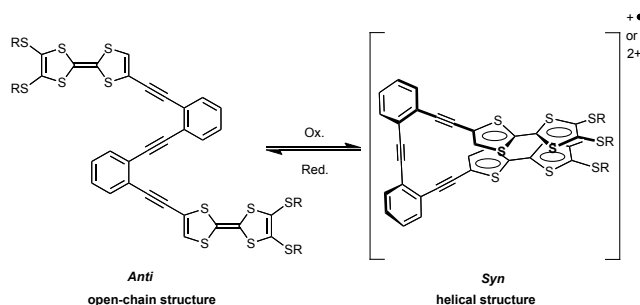
829 Synthesis of 2-Methylene-tetrahydropyran-3-ol Derivative, a Key Segment for Convergent Synthesis of Polycyclic Ethers Based on Suzuki-Miyaura Coupling

Tomohiro Kimura, Yasuyo Miyagawa, Shingo Ozawa, Mayumi Hagiwara, and Tadashi Nakata*


 Samarium Diodide Tetrahydropyran *exo*-Methylene β-Alkoxyvinyl Sulfone β-Alkoxyvinyl Sulfoxide

837 Synthesis and Electrochromic Properties of Bis(2-tetrathiafulvalenylethynylphenyl)ethynes

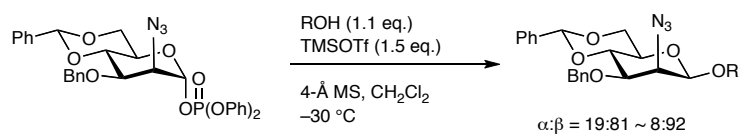
Masashi Hasegawa, Yusuke Kobayashi, Kenji Hara, Hideo Enozawa, and Masahiko Iyoda*



Tetrathiafulvalene Dimeric TTF Mixed-Valence State π-Dimer Helical Structure

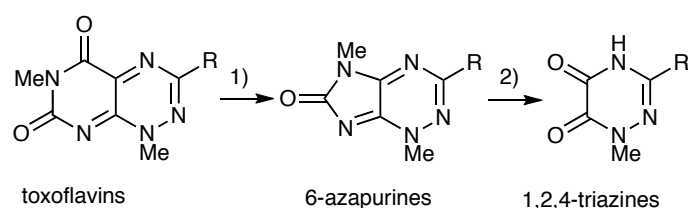
843 Direct and Stereoselective Synthesis of 2-Azido-2-deoxy- β -D-mannosides Using the Phosphate Method

Seiichi Nakamura, Toshifumi Tsuda, Noritoshi Suzuki, and Shunichi Hashimoto*


 Glycosidation Diphenyl Phosphate Benzylidene Acetal β -Linked Disaccharide Molecular Sieves

849 The Facile Synthesis of 6-Azapurines by Transformation of Toxoflavins (7-Azapteridines)

Tomohisa Nagamatsu,* Jun Ma, and Fumio Yoneda

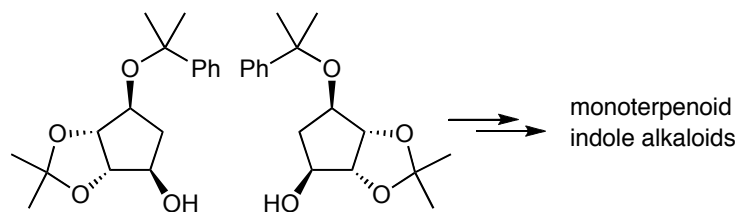


1) 10% aq NaOH, 5–25 °C, 1–3 day for R = H, alkyl, 60–70 °C, 10–45 min for R = aryl; 2) 10% NaOH in EtOH, reflux, 6 h

6-Azapurine Toxoflavine Transformation 7-Azapteridine Rearrangement

855 Flexible Access to Monoterpenoid Indole Alkaloids Using a Cyclopentanoid Chiral Building Block

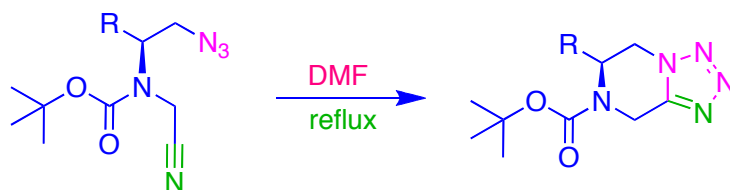
Masato Hayashi, Keiichi Motosawa, Atsushi Satoh, Masatoshi Shibuya, Kunio Ogasawara, and Yoshiharu Iwabuchi*



Chiral Building Block Monoterpenoid Indole Alkaloid Enantiocontrolled Synthesis Diastereocontrolled Synthesis Total Synthesis

865 Synthesis of New Chiral 5,6,7,8-Tetrahydro Tetrazolo-[1,5-*a*]pyrazines from α -Amino Acid Derivatives Following “Click” Chemistry

Debendra K. Mohapatra,* Pradip K. Maity, Ravindra V. Ghorpade, and Mukund K. Gurjar

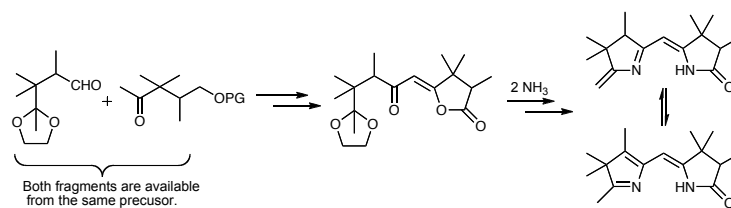


Tetrazole Click Chemistry Amino Acid Hypertension Nitrogen Rich System

■ PAPERS

873 A Tetracarbonyl Paal Knorr Approach to Semicorrins

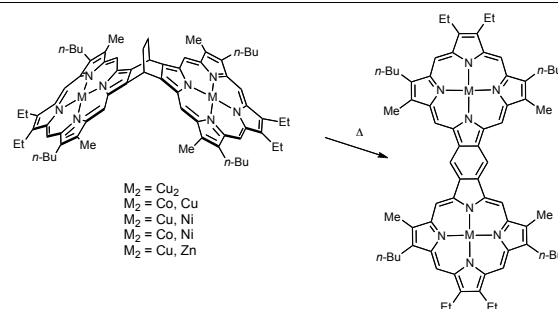
Anna Innitzer and Johann Mulzer*



Total Synthesis Heterocycle Oxidation Claisen-Johnson Rearrangement Aldol Reaction

887 Synthesis and Properties of Benzene-fused Diporphyrins with Various Metals

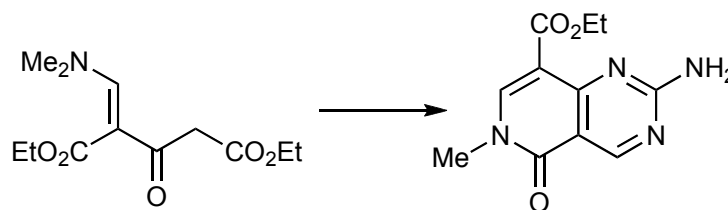
Hidemitsu Uno,* Masakazu Hashimoto, and Akiko Fumimoto



Diporphyrin Retro-Diels-Alder Reaction Bicyclooctadiene UV-Vis Spectra [3+1] Porphyrin Synthesis

899 Transformations of Diethyl 2-[(Dimethylamino)methylene]-3-oxopentanedioate. A Simple Synthesis of Substituted 2-Amino-5-oxo-5,6-dihydropyrido[4,3-d]pyrimidine-8-carboxylates

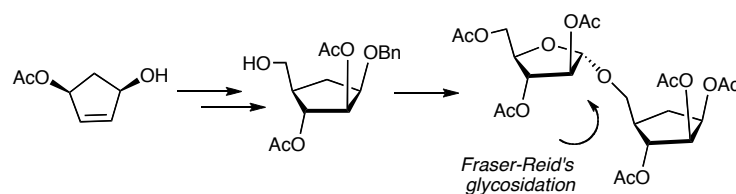
Silvo Zupančič, Jurij Svete, and Branko Stanovnik*



Dihydropyrido[4,3-d]pyrimidine-8-carboxylate 3-Oxopentanedioate Acetone-1,3-dicarboxylate 4-(2-Ethoxy-2-oxoethyl)pyrimidine-5-carboxylate

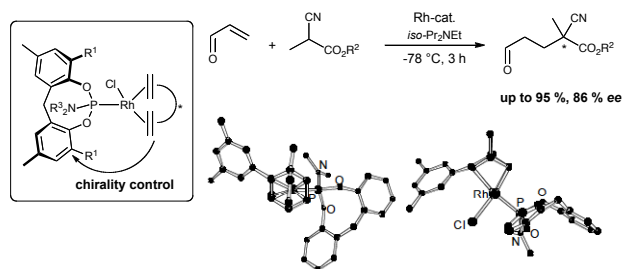
909 Studies toward the Total Synthesis of Carba Analogue of Motif C of *M. TB* Cell Wall AG Complex

Mukund K. Gurjar,* Challa Nageswar Reddy, Uttam R. Kalkote, and Mukund S. Chorghade


Mycobacterium tuberculosis *M. Tb* Ag Complex Desymmetrization Allylic Alkylation Fraser-Reid's Glycosidation

927 Chirality Control of *Tropos* Diphenylmethane-derived Phosphoramidites by Chiral Dienes: Its Application to Asymmetric Michael Addition

Kazuki Wakabayashi, Kohsuke Aikawa, and Koichi Mikami*

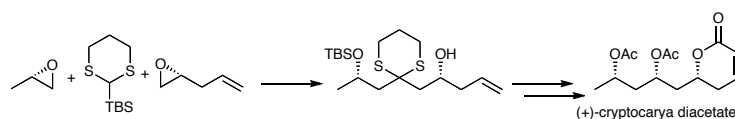


Rh-cat: RhCl(chiral diene)(phosphoramidite)

Tropos Diphenylmethane-Derived Phosphoramidite RhCl Complex with Phosphoramidite Synergy Effect Asymmetric Michael Reaction

945 A Short Total Synthesis of (+)-Cryptocarya Diacetate

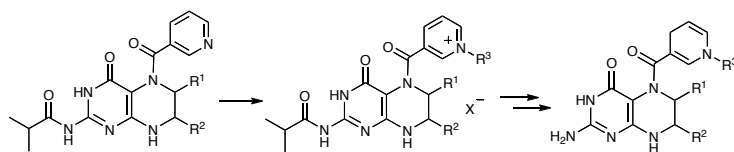
Mukund K. Gurjar,* N. Raghupathi, and Mukund S. Chorghade



Linchpin Coupling Brook Rearrangement Cryptocarya Diacetate Horner-Wadsworth-Emmons Reaction Diastereoselective Reduction

953 Pteridines CXX. Synthesis and Properties of Tetrahydropterins Coupled to 1,4-Dihydropyridines

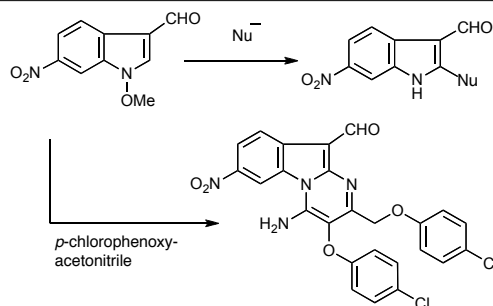
Joachim Rehse and Wolfgang Pfeleiderer*



Bodor Approach Tetrahydropterin 5-Nicotinoyl-5,6,7,8-tetrahydropterin Quaternization 5-(1,4-Dihydropyridinyl)tetrahydropterin

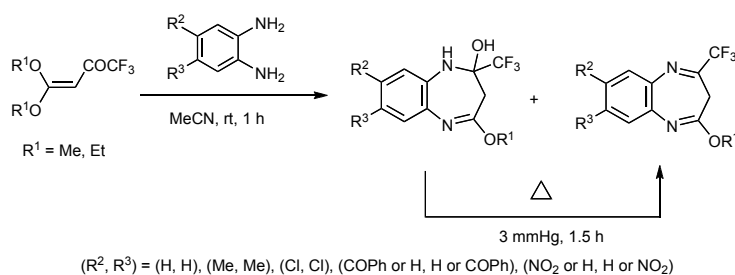
971 Nucleophilic Substitution Reaction in Indole Chemistry: 1-Methoxy-6-nitroindole-3-carbaldehyde as a Versatile Building Block for 2,3,6-Trisubstituted Indoles

Koji Yamada, Fumio Yamada, Takei Shiraishi, Saori Tomioka, and Masanori Somei*


 Nucleophilic Substitution Reaction 1-Methoxyindole 1-Methoxy-6-nitroindole-3-carbaldehyde 2-Substituted Indole Pyrimido[1,2-*a*]indole

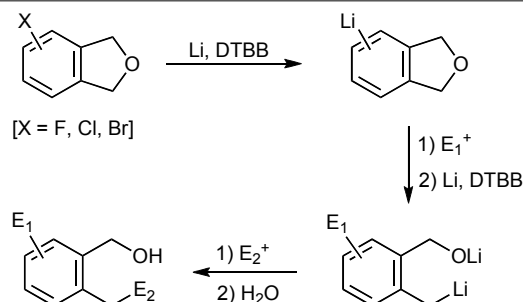
983 A Convenient Synthetic Method for Fluorine-containing 4-Alkoxy-dihydrobenzo[*h*][1,4]diazepinols and 3-*H*-Benzo[*h*][1,4]diazepines by the Reaction of β -Trifluoroacetylketene Acetals with 1,2-Phenylenediamines

Norio Ota, Etsuji Okada,* Naoya Terai, Tomomi Miyamura, Dai Shibata, and Tsuneaki Sakata


 2,3-Dihydro-1-*H*-benzo[*h*][1,4]diazepinol 3-*H*-Benzo[*h*][1,4]diazepine Trifluoromethyl Group Annulation 1,2-Phenylenediamine

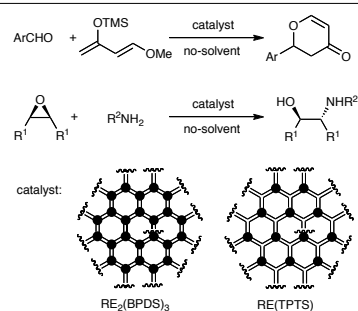
991 Selective Lithiation of 4- and 5-Halophthalans

Daniel García, Francisco Foubelo,* and Miguel Yus*



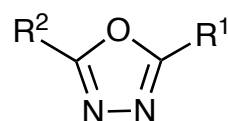
DTBB-Catalyzed Lithiation Functionalized Organolithium Reductive Opening Halogen-Lithium Exchange Selective Lithiation

1007 Heterogeneous Lewis Acid Catalysis with Self-organized Polymeric Rare Earth Arylsulfonates under Solvent-free Conditions

 Hiroshi Furuno,* Shuichi Ishida, Shoko Suzuki,
 Tetsuji Hayano, Satoaki Onitsuka, and Junji Inanaga*


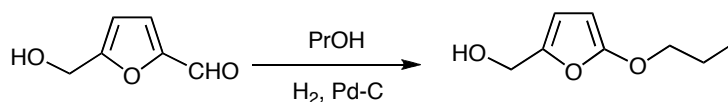
Amino Alcohol Synthesis Green Chemistry Rare Earth Catalyst Reusable Catalyst Solvent-Free Reaction

1019 Synthesis and Properties of Novel Biologically Interesting Polycyclic 1,3,4-Oxadiazoles Containing Acridine/Acridone Moieties

 Zdenka Fröhlichová, Jana Tomaščíková, Ján Imrich,*
 Pavol Kristian, Ivan Danihel, Stanislav Böhm,
 Danica Sabolová, Mária Kožurková, and Karel D. Klika

 R^1 : 4-10*H*-acridin-9-one,
 10*H*-acridin-9-ylidene
 R^2 : Me, aryl, 3-pyridyl, 4-pyridyl

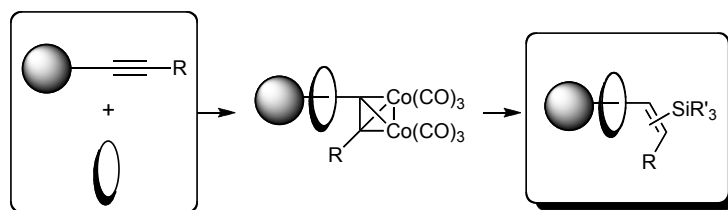
Acridine/Acridone Oxadiazole Structure Study DNA Binding Property Theoretical Calculation (DFT, ZINDO)

1037 Ether Formation in the Hydrogenolysis of Hydroxymethylfurfural over Palladium Catalysts in Alcoholic Solution

 Gerard C. A. Lluji, Nina P. M. Huck, Fred van Rantwijk,
 Leendert Maat,* and Herman van Bekkum*


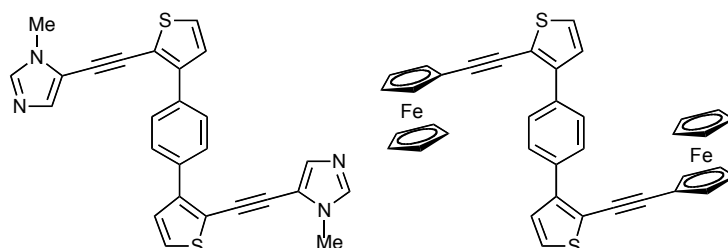
2,5-Dimethylfuran Hydrogenation Acetalization 2-Hydroxymethyl-5-propyloxymethylfuran

1045 Efficient Synthesis of [2]Rotaxanes Based on Sequential Acetylene-dicobalt Hexacarbonyl Complexation and Stopper Modification

 Yuji Tokunaga,* Norihiro Ohiwa, Go Ohta, Yuji Yamauchi,
 Tatsuhiro Goda, Nobuhiko Kawai, Takumichi Sugihara,
 Youji Shimomura, and Tomonori Hoshi


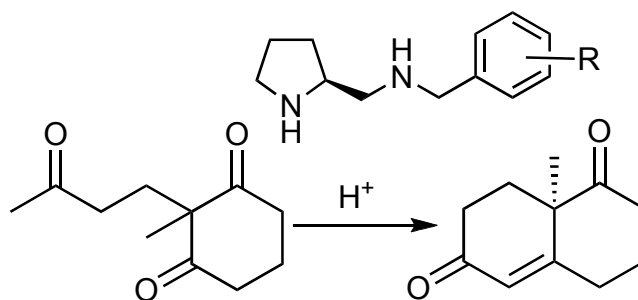
Rotaxane Hydrogen Bond Acetylene-Dicobalt Hexacarbonyl Complexation Hydrosilylation

1057 Preparation of 1,4-Bis[2-{2-(1-methyl-1*H*-imidazol-5-yl)-ethynyl}-3-thienyl]benzene and Related Compounds

 Kozo Toyota,* Kazuyuki Okada, Hiroshi Katsuta,
 Yasutomu Tsuji, and Noboru Morita

 Oligoarene Bis(ethynylthienyl)arene Spacer Conjugated π System Aromatic Compound

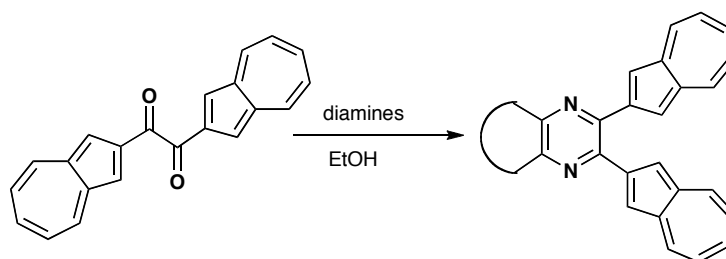
1065 A New Chiral Synthesis of Wieland-Miescher Ketone Catalyzed by a Combination of (*S*)-*N*-Benzyl-*N*-(2-pyrrolidinylmethyl)amine Derivative and Brønsted Acid

Yuichi Akahane, Kohei Inomata,* and Yasuyuki Endo


 Organocatalysis Wieland-Miescher Ketone *N*-Benzyl-*N*-(2-pyrrolidinyl)amine Chiral Synthesis Brønsted Acid

1079 Preparation of Azulene Substituted Pyrazine and Quinoxaline Derivatives

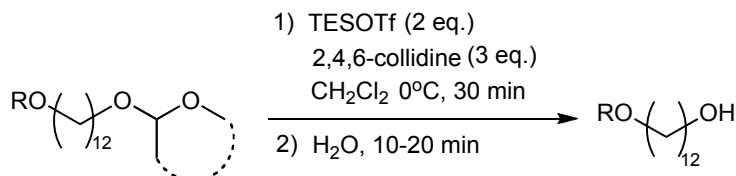
Nozomi Furuta, Takuo Mizutani, Akira Ohta, and Kunihide Fujimori*



Azulene Pyrazine Quinoxaline Phenazine Di(2-azulenyl)ethanedione

1089 Mild and Efficient Deprotection of Acetal-Type Protecting Groups of Hydroxyl Functions by Triethylsilyl Triflate — 2,4,6-Collidine Combination

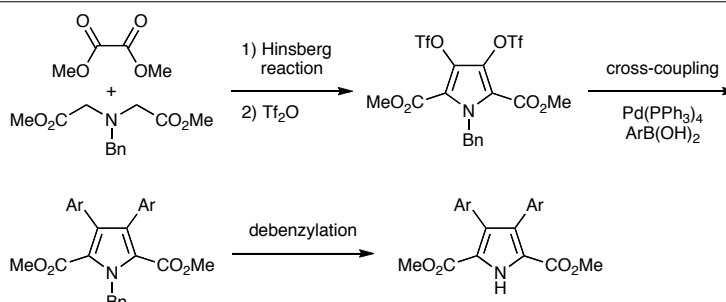
Hiromichi Fujioka,* Ozora Kubo, Kazuhisa Okamoto, Kento Senami, Takashi Okitsu, Takuya Ohnaka, Yoshinari Sawama, and Yasuyuki Kita*



Deprotection Acetal-Type Protecting Group of Hydroxyl Function Chemoselective Weakly Basic Condition Acid-Labile Functional Group

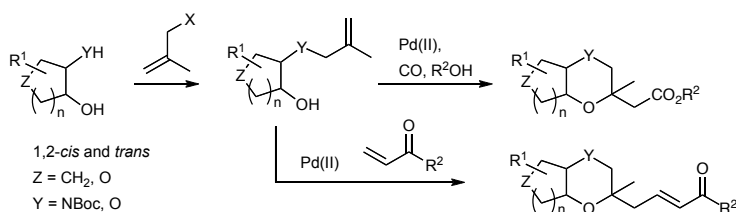
1105 A General Method for the Synthesis of *N*-Unsubstituted 3,4-Diarylpyrrole-2,5-dicarboxylates

Tsutomu Fukuda, Yukie Hayashida, and Masatomo Iwao*


N-Unsubstituted 3,4-Diarylpyrrole-2,5-dicarboxylate Hinsberg Reaction Suzuki-Miyaura Coupling 3,4-Diarylpyrrole Marine Alkaloid

1123 Synthesis of Annulated 1,4-Dioxanes and Perhydro-1,4-oxazines by Domino-Wacker-Carbonylation and Domino-Wacker-Mizoroki-Heck Reactions

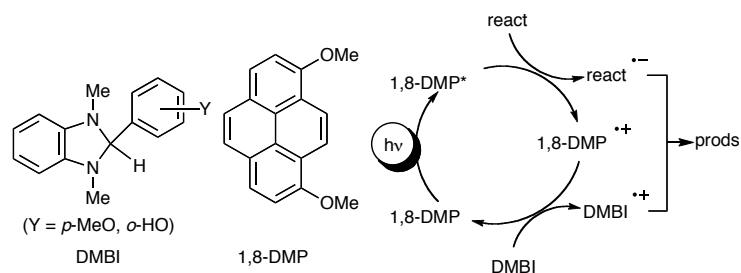
Lutz F. Tietze,* Arne Heins, Mohammad Soleiman-Beigi, and Christian Raith



Domino Reaction Dioxane Heck Reaction Oxazine Palladium Wacker Reaction

1147 Benzimidazoline-Dimethoxypyrene. An Effective Promoter System for Photoinduced Electron Transfer Promoted Reductive Transformations of Organic Compounds

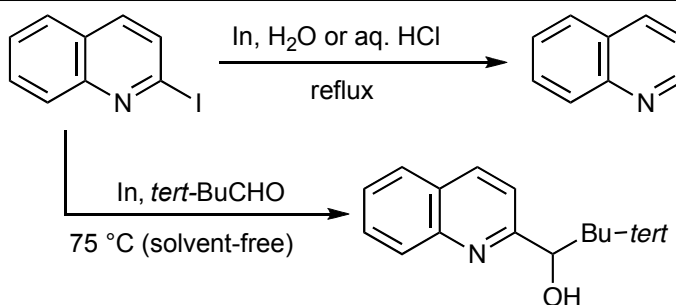
Eietsu Hasegawa,* Harumi Hirose, Kosuke Sasaki, Shinya Takizawa, Takayuki Seida, and Naoki Chiba



Benzimidazoline Dimethoxypyrene Photoinduced Electron Transfer Radical Ion Reductive Transformation

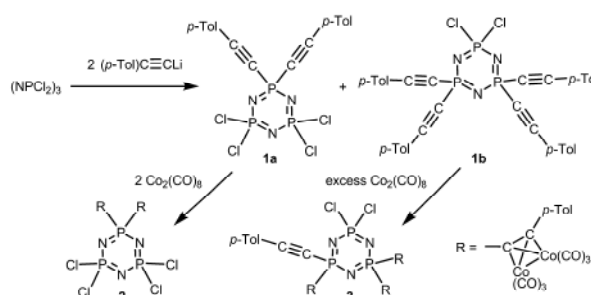
1163 Dehalogenation and Barbier-Type Hydroxyalkylation of π -Deficient Haloheterocycles Using Indium

Eri Fukuda, Yukiko Takahashi, Natsumi Hirasawa, Osamu Sugimoto,* and Ken-ichi Tanji*


 Indium Dehalogenation π -Deficient Heterocycle Reduction Barbier Reaction

1171 Synthesis and Structures of Alkynylchlorocyclophosphazenes and Their Cluster-forming Reactions with Octacarbonyldicobalt

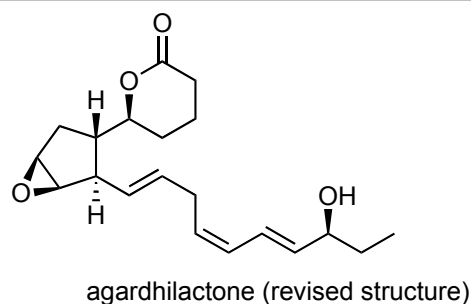
Takashi Komuro, Kenichi Mori, and Hiromi Tobita*



Cyclotriphosphazene Alkynyl Substituent Multidentate Ligand Cobalt Cluster Crystal Structure

1185 Synthesis of Marine Oxylipin Agardhilactone and its Analogues: A Structural Revision

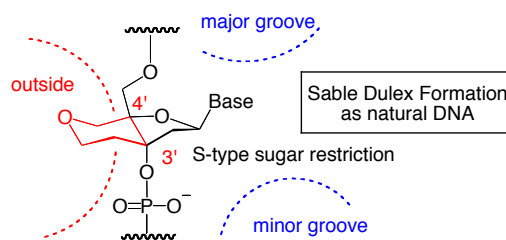
Hiroaki Miyaoka,* Yoshinori Hara, Ikuo Shinohara, Takao Kurokawa, Etsuko Kawashima, and Yasuji Yamada



Eicosanoid Red Alga Ring-Closing Metathesis Fatty Acid

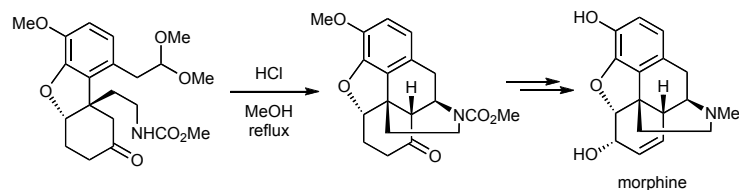
1209 Synthesis and Properties of 2'-Deoxy-*trans*-3',4'-BNA with S-Type Sugar Puckering

Tetsuya Kodama, Kensaku Sugaya, Yasuki Harada, Yasunori Mitsuoka, Takeshi Imanishi, and Satoshi Obika*



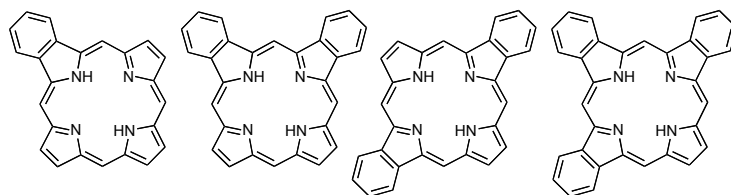
BNA DNA Mimic Conformational Restriction Oligonucleotide S-Type Sugar Pucker

1219 Total Synthesis of (±)-Morphine

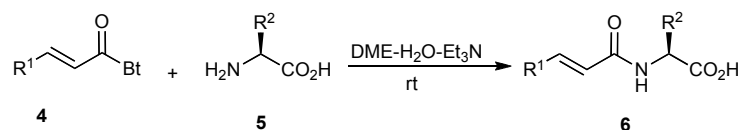
 Kenji Uchida, Satoshi Yokoshima, Toshiyuki Kan,
and Tohru Fukuyama*


Morphine Intramolecular Mannich-Type Reaction Intramolecular Aldol Condensation Tandem Cyclization Morphinan Skeleton

1235 Synthesis of Mono-, Di- and Tribenzoporphyrins from their Soluble Precursors

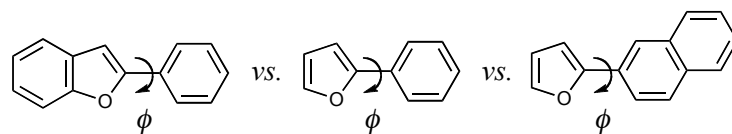
 Tetsuo Okujima,* Yusuke Hashimoto, Guangnan Jin,
Hiroko Yamada, and Noboru Ono

 Benzoporphyrin Soluble Precursor Retro-Diels-Alder Reaction π -Conjugation HOMO-LUMO Level

1249 Preparation and Synthetic Applications of *N*-(α,β -Unsaturated Acyl)- α -amino Acid Derivatives

 Alan R. Katritzky,* Reena Gyanda, Nabin K. Meher,
and Yuming Song

 Acylation α,β -Unsaturated Amide *N*-(α,β -Unsaturated Acyl)- α -amino Acid Anticancer Agent Benzotriazole Methodology

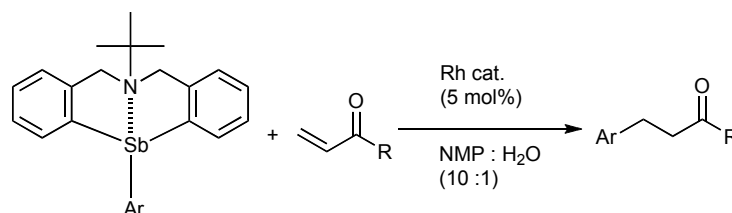
1261 Effect of Fused Benzene Ring on Rotational Barriers of 2,2'-Bifuran, 2-Phenylfuran, Biphenyl, and Their Benzo Analogues

Naoto Hayashi,* Yoko Saito, and Hiroyuki Higuchi*


ab initio Calculation Biheteroaryl Torsional Potential Rotational Barrier

1269 Rhodium-Catalyzed Conjugate Addition of Sb-Aryl-1,5-azastibocines to α,β -Unsaturated Carbonyl Compounds

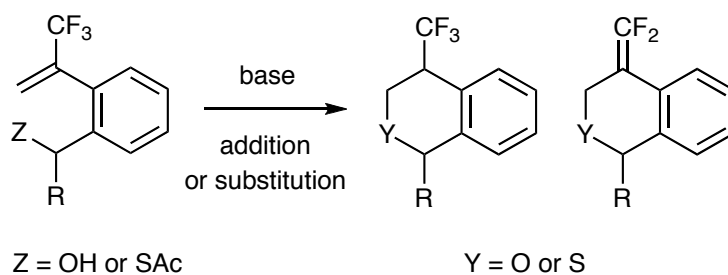
Naoki Kakusawa, Shuji Yasuike, and Jyoji Kurita*



Organoantimony Compound 1,5-Azastibocine Intramolecular Coordination 1,4-Conjugate Addition Rhodium Catalyst

1285 Synthesis of Isochromanes and Isothiochromanes Bearing Fluorinated One-Carbon Units *via* Intramolecular Cyclizations of *ortho*-Substituted α -(Trifluoromethyl)-styrenes

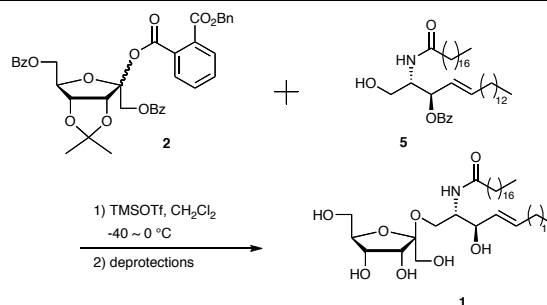
Junji Ichikawa,* Masahiro Ikeda, and Masahiro Hattori



Trifluoromethyl Group Difluoromethylene Group Addition Substitution

1297 Stereoselective β -D-Psicofuranosylation and Synthesis of β -D-Psicofuranosylceramide

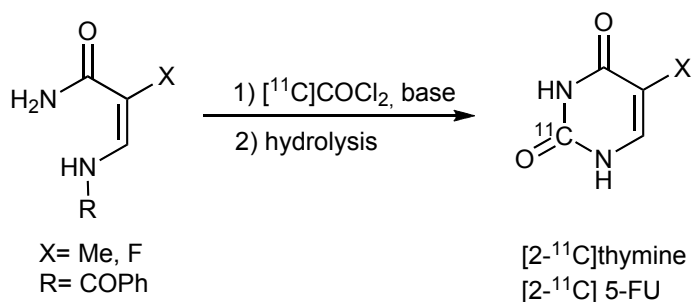
Jun'ichi Uenishi* and Atsushi Ueda



Psicose Glycosidation Psicosylceramide Cerebroside Stereoselective Reaction

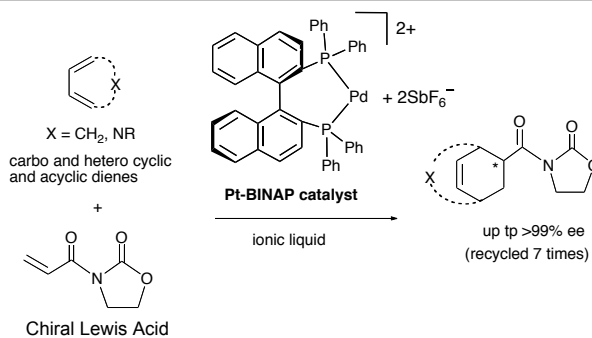
1307 New [^{11}C]Phosgene Based Synthesis of [^{11}C]Pyrimidines for Positron Emission Tomography

Koh-ichi Seki,* Ken-ichi Nishijima, Kimihito Sanoki, Yuji Kuge, Masayuki Takahashi, Hiromichi Akizawa, Nagara Tamaki, Leonard I. Wiebe, and Kazue Ohkura*


 ^{11}C -Labeling Synthesis [^{11}C]Pyrimidine [^{11}C]Phosgene PET Thymidine Phosphorylase

1323 Reactivity and Efficient Recycling of a Chiral Pd-BINAP Catalyst for Catalytic Asymmetric Diels-Alder Reaction in Ionic Liquid

Yasuhiro Nishiuchi, Hiroto Nakano,* Yuta Araki, Rina Sato, Reiko Fujita, Koji Uwai, and Mitsuhiro Takeshita*

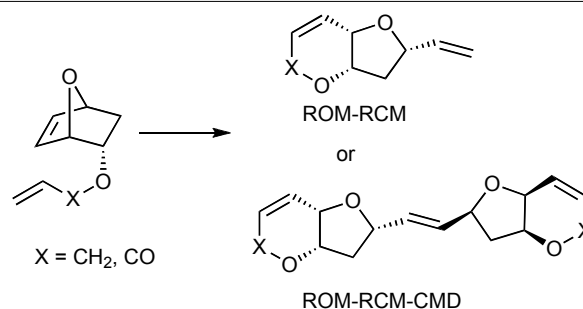


Pd-BINAP Diels-Alder Reaction Ionic Liquid Asymmetric Catalyst Chiral Lewis Acid

■ NOTE

1333 Tandem Metathesis Reactions Cascade Ring-Opening Metathesis (ROM)-Ring-Closing Metathesis (RCM)-Cross Metathesis Dimerization (CMD) in 7-Oxabicyclo[2.2.1]-hept-5-one (7-Oxanorbornene) Derivatives

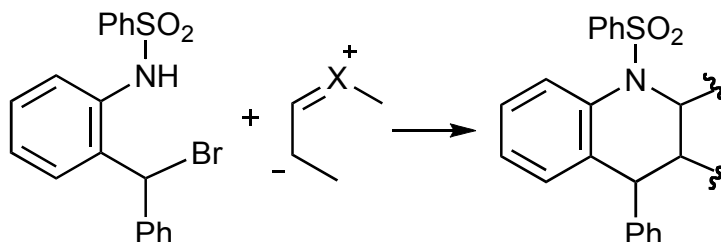
Ana Aljarilla and Joaquín Plumet*



Metathesis Reaction Oxabicyclic Compound Tandem Reaction 2,6-Dioxabicyclo[4.3.0]nonane Skeleton Cross Metathesis Dimerization

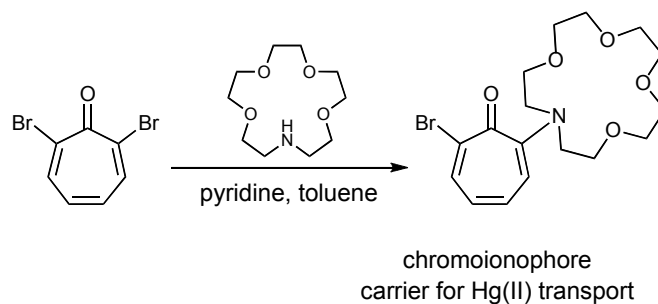
1341 Quinoline Derivatives by Cyclocondensation of *N*-(2-Bromophenylmethylphenyl)benzenesulfonamide with Enol Ethers and Enamines

Giuseppe Cremonesi, Piero Dalla Croce,* Francesco Fontana, and Concetta La Rosa


 Quinoline Derivative Aza-Diels-Alder Reaction α -Azaxylylene Cyclocondensation Enol Ether

1347 Synthesis and Properties of 2-Bromo-7-(1,4,7,10-tetraoxa-13-azacyclopentadec-13-yl)-2,4,6-cycloheptatriene-1-one

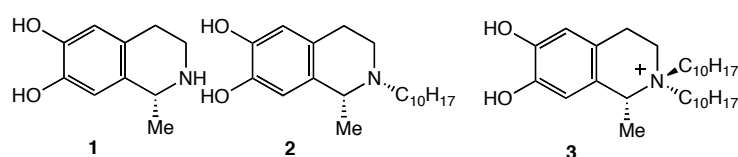
Kanji Kubo,* Akira Mori, and Hitoshi Takeshita



Troponone Aza-Crown Ether Liquid Membrane Chromoionophore Mercury(II) Ion Transport

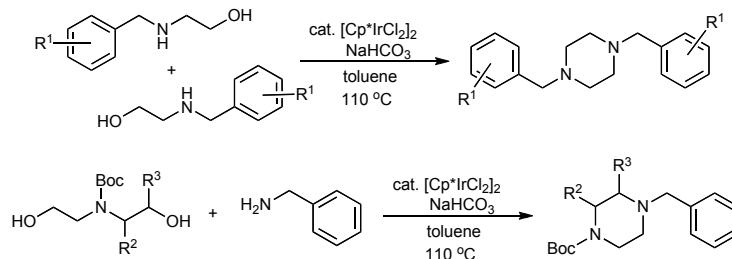
1355 Geranyl Derivatives of Salsolinol Show Increased Biological Activities

Kinuko Iwasa,* Suguru Okada, Yumi Nishiyama, Sousuke Takeuchi, Masayasu Moriyasu, Chisato Tode, Makiko Sugiura, Atsuko Takeuchi, Harukuni Tokuda, Kazuyoshi Takeda, Yi-Nan Liu, Pei-Chi Wu, Kenneth F. Bastow, Toshiyuki Akiyama, and Kuo-Hsiung Lee


 Simple Isoquinoline *N*-Geranylation Antimicrobial Activity Cytotoxicity

1371 Synthesis of Piperazine Derivatives by Cp*Ir Complex-catalyzed *N*-Alkylative Reactions of Ethanolamines

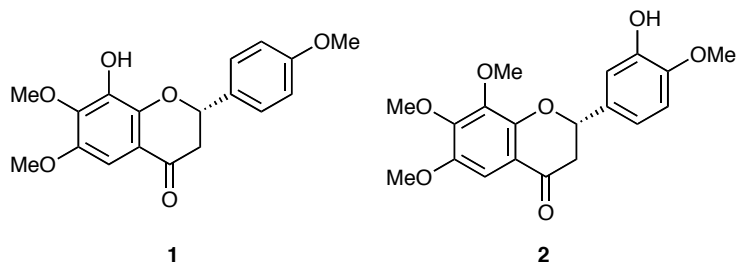
Ken-ichi Fujita, Yasushi Kida, and Ryohei Yamaguchi*



Iridium Catalyst Ethanolamine Piperazine C-N Bond Formation Hydrogen Transfer

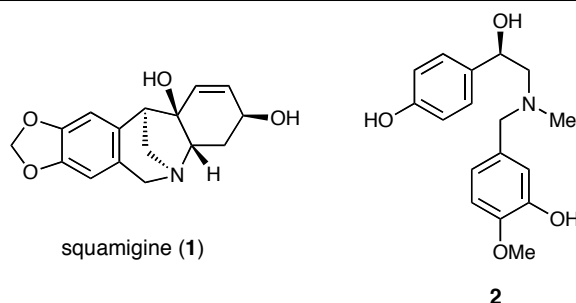
1379 Flavonoids from *Eupatorium odoratum* with Death Receptor 5 Promoter Enhancing Activity

Takashi Ohtsuki, Takahito Hiraka, Hiroyuki Kikuchi, Takashi Koyano, Thaworn Kowithayakorn, Toshiyuki Sakai, and Masami Ishibashi*


 Flavonoid *Eupatorium odoratum* Death Receptor TRAIL

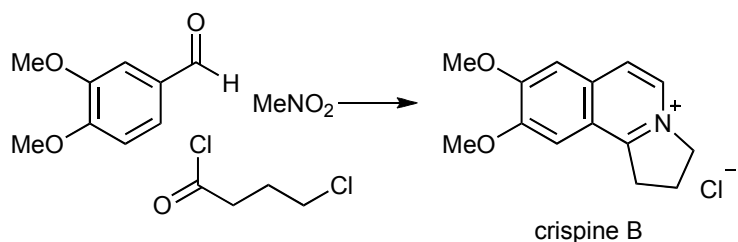
1389 Two New Alkaloids from Bulbs of *Lycoris squamigera*

Mariko Kitajima, Eri Kinoshita, Noriyuki Kogure, and Hiromitsu Takayama*


Lycoris squamigera Amaryllidaceae Alkaloid Crinine Norbelladine

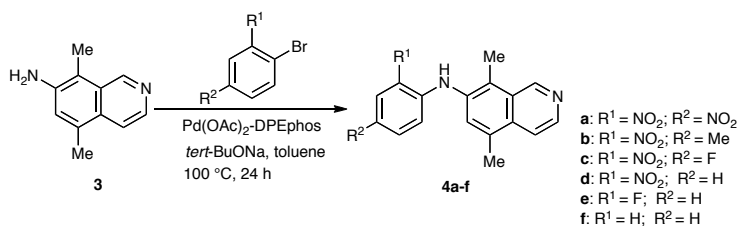
1397 First Total Synthesis of Crispine B by Nitro Aldol and the Bischler-Napieralski Reaction

Tomohisa Yasuhara, Naoko Zaima, Satoko Hashimoto, Masako Yamazaki, and Osamu Muraoka*


 Crispine B Total Synthesis Isoquinoline Alkaloid *Carduus crispus* L.

1403 Synthesis of 7-Anilino-5,8-dimethylisoquinolines having Electron-attracting Group on Anilino Moiety

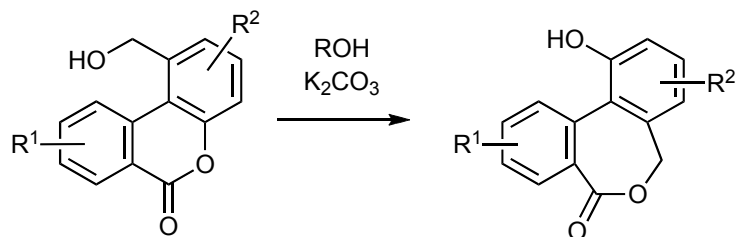
Yukinori Nagao,* Ryosuke Endo, Mizuho Tokumaru, and Koji Arimitsu



Electron-Attracting Palladium Catalyst Coupling Reaction Bromobenzene

1409 Preparation of 5*H*,7*H*-Dibenz[*c,e*]oxepin-5-one Derivative through Reconstruction of the Lactone Ring

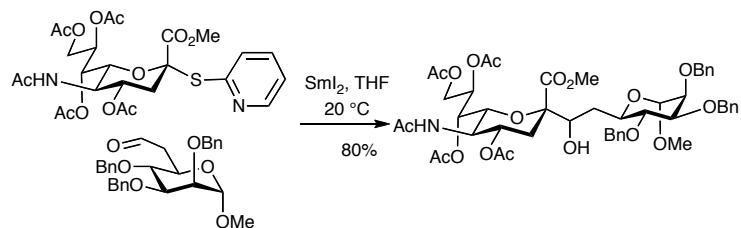
Hitoshi Abe,* Masatsugu Arai, Yasuo Takeuchi, and Takashi Harayama*



Lactone Solvolysis Biphenyl

1417 Anomeric Samarium(III) Intermediates of *N*-Acetylneuraminic Acid from Anomeric 2-Pyridylsulfides

Adeline Malapelle, Zouleika Abdallah, Gilles Doisneau, and Jean-Marie Beau*



Carbohydrate Reductive Metallation Samarium Sialic Acid

■ INDEXES

- 1425 Author Index
1445 Subject Index

Contributors To This Issue

- 1417 Abdallah, Zouleika
 1409 Abe, Hitoshi
 825 Abe, Takumi
 927 Aikawa, Kohsuke
 1065 Akahane, Yuichi
 1355 Akiyama, Toshiyuki
 1307 Akizawa, Hiromichi
 1333 Aljarilla, Ana
 779 Aoyama, Hiroshi
 1409 Arai, Masatsugu
 1323 Araki, Yuta
 1403 Arimitsu, Koji
 787 Asano, Moriteru
 747 Baba, Hiroki
 779 Baba, Masanori
 1355 Bastow, Kenneth F.
 1417 Beau, Jean-Marie
 731 Beck, Barbara
 1019 Böhm, Stanislav
 759 Cha, Byung-Yoon
 1147 Chiba, Naoki
 909, 945 Chorghade, Mukund S.
 1341 Cremonesi, Giuseppe
 1341 Croce, Piero Dalla
 1019 Danihel, Ivan
 793 Doi, Kou-ichi
 1417 Doisneau, Gilles
 731 Dömling, Alexander
 1403 Endo, Ryosuke
 1065 Endo, Yasuyuki
 837 Enozawa, Hideo
 1341 Fontana, Francesco
 991 Foubelo, Francisco
 1019 Fröhlichová, Zdenka
 1079 Fujimori, Kunihide
 887 Fujimoto, Akiko
 1089 Fujioka, Hiromichi
 1371 Fujita, Ken-ichi
 1323 Fujita, Reiko
 1163 Fukuda, Eri
 1105 Fukuda, Tsutomu
 1219 Fukuyama, Tohru
 1007 Furuno, Hiroshi
 1079 Furuta, Nozomi
 991 García, Daniel
 865 Ghorpade, Ravindra V.
 1045 Goda, Tatsuhiro
 779 Goto, Yukinori
 865, 909, Gurjar, Mukund K.
 1249 Gyanda, Reena
 829 Hagiwara, Mayumi
 747 Hanaya, Tadashi
 837 Hara, Kenji
 1185 Hara, Yoshinori
 1209 Harada, Yasuki
 1409 Harayama, Takashi
 1147 Hasegawa, Eietsu
 837 Hasegawa, Masashi
 887 Hashimoto, Masakazu
 1397 Hashimoto, Satoko
 843 Hashimoto, Shunichi
 779 Hashimoto, Yuichi
 1235 Hashimoto, Yusuke
 793 Hatano, Tsutomu
 1285 Hattori, Masahiro
 1007 Hayano, Tetsuji
 855 Hayashi, Masato
 1261 Hayashi, Naoto
 1105 Hayashida, Yukie
 1123 Heins, Arne
 731 Herdtweck, Eberhardt
 1261 Higuchi, Hiroyuki
 1379 Hiraka, Takahito
 1163 Hirasawa, Natsumi
 679 Hirasawa, Yusuke
 1147 Hirose, Harumi
 1045 Hoshi, Tomonori
 1037 Huck, Nina P. M.
 1285 Ichikawa, Junji
 739 Igarashi, Tetsutaro
 801 Iizumi, Takashi
 1285 Ikeda, Masahiro
 1209 Imanishi, Takeshi
 1019 Imrich, Ján
 811 Inamura, Koji
 1007 Inanaga, Junji
 873 Innitzer, Anna
 1065 Inomata, Kohei
 1379 Ishibashi, Masami
 1007 Ishida, Shuichi
 825 Ishikura, Minoru
 855 Iwabuchi, Yoshiharu
 1105 Iwao, Masatomo
 767 Iwao, Takuya
 1355 Iwasa, Kinuko
 837 Iyoda, Masahiko
 1235 Jin, Guangnan
 1269 Kakusawa, Naoki
 909 Kalkote, Uttam R.
 1219 Kan, Toshiyuki
 793 Kasajima, Naoki
 1249 Katritzky, Alan R.
 817 Katsuki, Tsutomu
 1057 Katsuta, Hiroshi
 1045 Kawai, Nobuhiko
 1185 Kawashima, Etsuko
 731 Khoury, Kareem
 1371 Kida, Yasushi

- 1379 Kikuchi, Hiroyuki
755 Kimura, Takeshi
829 Kimura, Tomohiro
1389 Kinoshita, Eri
1089 Kita, Yasuyuki
1389 Kitajima, Mariko
787 Kiyotsuka, Yohei
1019 Klika, Karel D.
679 Kobayashi, Jun'ichi
787 Kobayashi, Yuichi
837 Kobayashi, Yusuke
657 Kočevár, Marijan
1209 Kodama, Tetsuya
1389 Kogure, Noriyuki
1171 Komuro, Takashi
1379 Kowithayakorn, Thaworn
1379 Koyano, Takashi
1019 Kožurková, Mária
1019 Kristian, Pavol
1347 Kubo, Kanji
1089 Kubo, Ozora
1307 Kuge, Yuji
1269 Kurita, Jyoji
1185 Kurokawa, Takao
1341 La Rosa, Concetta
1355 Lee, Kuo-Hsiung
1355 Liu, Yi-Nan
1037 Luijckx, Gerard C. A.
849 Ma, Jun
1037 Maat, Leendert
739 Maekawa, Kei
865 Maity, Pradip K.
1417 Malapelle, Adeline
645 Masada, Sayaka
817 Matsumoto, Kazuhiro
1249 Meher, Nabin K.
927 Mikami, Koichi
1209 Mitsuoka, Yasunori
779 Miyachi, Hiroyuki
829 Miyagawa, Yasuyo
983 Miyamura, Tomomi
1185 Miyaoka, Hiroaki
811 Mizuhata, Yoshiyuki
645 Mizukami, Hajime
1079 Mizutani, Takuo
865 Mohapatra, Debendra K.
1347 Mori, Akira
1171 Mori, Kenichi
679 Morita, Hiroshi
1057 Morita, Noboru
1355 Moriyasu, Masataka
855 Motosawa, Keiichi
873 Mulzer, Johann
1397 Muraoka, Osamu
759 Nagai, Kazuo
849 Nagamatsu, Tomohisa
1403 Nagao, Yukinori
779 Nakamura, Masahiko
843 Nakamura, Seiichi
1323 Nakano, Hiroto
801 Nakata, Kenya
829 Nakata, Tadashi
755 Namauo, Toshiharu
825 Namerikawa, Yuichi
759 Nishihama, Yuko
1307 Nishijima, Ken-ichi
1323 Nishiuchi, Yasuhiro
759 Nishiyama, Shigeru
1355 Nishiyama, Yumi
1209 Obika, Satoshi
755 Obonai, Takeru
759 Ogamino, Takahisa
855 Ogasawara, Kunio
793 Ohashi, Fumiaki
1045 Ohiwa, Norihiro
1307 Ohkura, Kazue
1089 Ohnaka, Takuya
1079 Ohta, Akira
1045 Ohta, Go
1379 Ohtsuki, Takashi
983 Okada, Etsuji
1057 Okada, Kazuyuki
1355 Okada, Suguru
1089 Okamoto, Kazuhisa
779 Okamoto, Mika
1089 Okitsu, Takashi
1235 Okujima, Tetsuo
801 Onda, Yu-suke
1007 Onitsuka, Satoaki
801 Ono, Keisuke
1235 Ono, Noboru
983 Ota, Norio
829 Ozawa, Shingo
953 Pfeiderer, Wolfgang
1333 Plumet, Joaquín
657 Požgan, Franc
945 Raghupathi, Neelarapu
1123 Raith, Christian
909 Reddy, Challa Nageswar
953 Rehse, Joachim
1019 Sabolová, Danica
1261 Saito, Yoko
1379 Sakai, Toshiyuki
983 Sakata, Tsuneaki
779 Sako, Kumiko
739 Sakurai, Tadimitsu
1307 Sanoki, Kimihito
773 Sasaki, Hiroyuki
1147 Sasaki, Kosuke
1323 Sato, Rina
779 Sato, Shinichi
855 Satoh, Atsushi
1089 Sawama, Yoshinari
1147 Seida, Takayuki
1307 Seki, Koh-ichi
1089 Senami, Kento
759 Shi, Wen Lei
983 Shibata, Dai
793 Shibata, Takashi
855 Shibuya, Masatoshi
801 Shiina, Isamu
767 Shimizu, Makoto
1045 Shimomura, Youji
773 Shindo, Mitsuru
1185 Shinohara, Ikuro
971 Shiraishi, Takei
773 Shishido, Kozo
1123 Soleiman-Beigi, Mohammad
971 Somei, Masanori
1249 Song, Yuming
731 Srivastava, Stuti
899 Stanovnik, Branko
759 Suenaga, Kiyotake
1209 Sugaya, Kensaku
1045 Sugihara, Takumichi
801 Sugimoto, Masuhiro
1163 Sugimoto, Osamu
1355 Sugiura, Makiko
817 Suyama, Keitaro
843 Suzuki, Noritoshi
1007 Suzuki, Shoko
899 Svete, Jurij
1307 Takahashi, Masayuki
1163 Takahashi, Yukiko
1389 Takayama, Hiromitsu
1355 Takeda, Kazuyoshi
1347 Takeshita, Hitoshi
1323 Takeshita, Mitsuhiko
1355 Takeuchi, Atsuko
1355 Takeuchi, Sousuke
1409 Takeuchi, Yasuo
1147 Takizawa, Shinya
1307 Tamaki, Nagara
793 Taniguchi, Shoko
1163 Tanji, Ken-ichi
983 Terai, Naoya
759 Teruya, Toshiaki
1123 Tietze, Lutz F.
1171 Tobita, Hiromi
1355 Tode, Chisato
811 Tokitoh, Norihiro
1355 Tokuda, Harukuni

- 1403 Tokumaru, Mizuho
 1045 Tokunaga, Yuji
 1019 Tomaščíková, Jana
 971 Tomioka, Saori
 739 Tomoda, Atsushi
 1057 Toyota, Kozo
 843 Tsuda, Toshifumi
 1057 Tsuji, Yasutomo
 1219 Uchida, Kenji
 1297 Ueda, Atsushi
 1297 Uenishi, Jun'ichi
 887 Uno, Hidemitsu
 1323 Uwai, Koji
 1037 van Bekkum, Herman
 1037 van Rantwijk, Fred
 927 Wakabayashi, Kazuki
 1307 Wiebe, Leonard I.
 759 Woo, Je-Tae
 1355 Wu, Pei-Chi
 971 Yamada, Fumio
 1235 Yamada, Hiroko
 825, 971 Yamada, Koji
 1185 Yamada, Yasuji
 1371 Yamaguchi, Ryohei
 747 Yamamoto, Hiroshi
 1045 Yamauchi, Yuji
 1397 Yamazaki, Masako
 1397 Yasuhara, Tomohisa
 1269 Yasuike, Shuji
 773 Yokoe, Hiromasa
 1219 Yokoshima, Satoshi
 849 Yoneda, Fumio
 759 Yonezawa, Takayuki
 773 Yoshida, Masahiro
 793 Yoshida, Takashi
 793 Yoshikado, Naomi
 991 Yus, Miguel
 1397 Zaima, Naoko
 899 Zupančič, Silvo