

■ PREFACES

- 1 **Preface — Dr. Keiichiro Fukumoto**
Hiroshi Irie*



- 3 **Preface — To Special Anniversary Issue of *Heterocycles***
Masataka Ihara*

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- 7 **Preface**
Hideo Nemoto*
-

■ CURRICULUM VITAE

- 11 **Bibliographical Data**
Keiichiro Fukumoto*
-

■ PUBLICATION

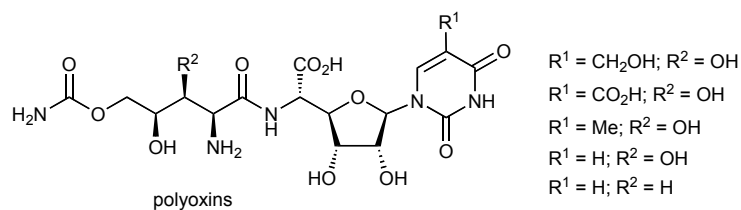
13 **Publications of Keiichiro Fukumoto**

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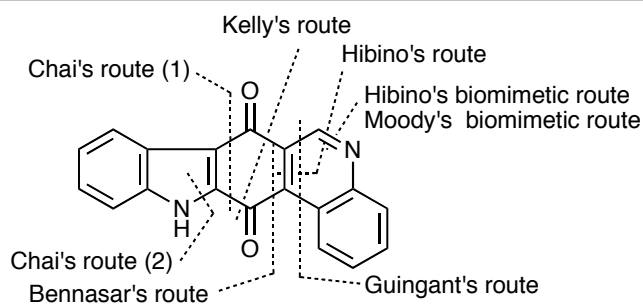
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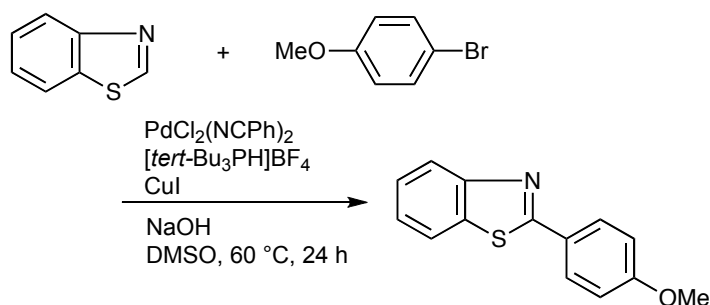
The liverwort *Ptychantus striatus*

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151 Use of NaOH as a New Activator for the Palladium-Catalyzed Direct CH Arylation of Thiazole Derivatives

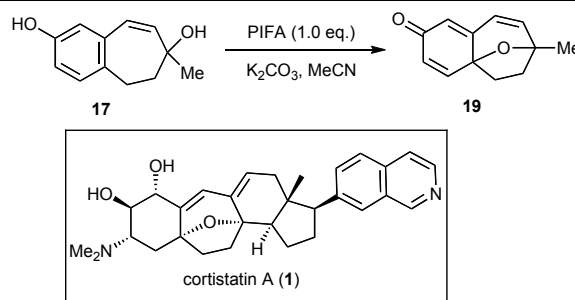
Takayuki Miyaoku and Atsunori Mori*



Thiazole CH Arylation Sodium Hydroxide Bulky Phosphine Aryl Bromide

157 An Oxidative Dearomatization Cyclization Model for Cortistatin A

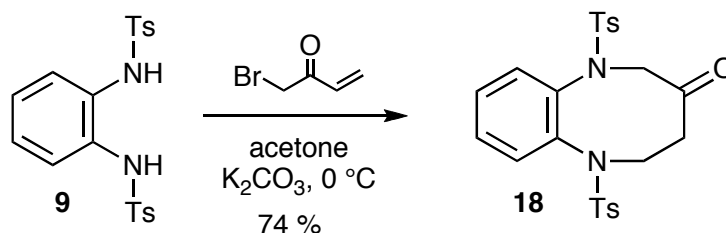
Mingji Dai and Samuel J. Danishefsky*



Cortistatin Natural Product Hypervalent Iodine Oxidative Dearomatization Cyclization

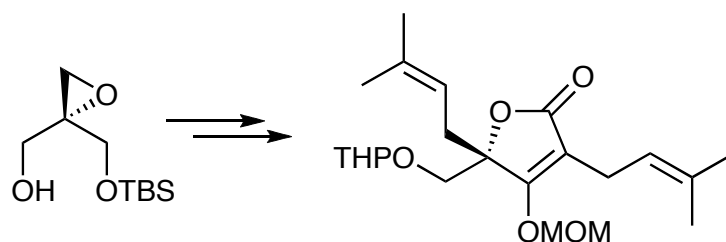
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Nicolas Proust, Adam J. Preston, and Leo A. Paquette*


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167 Enantioselective Synthesis of a 3,5,5-Trialkylated Tetronic Acid Derivative

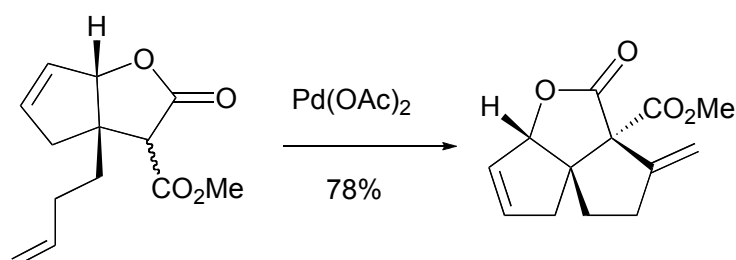
Ken-ichi Takao,* Yuki Kojima, Tomo Miyashita, Kentaro Yashiro, Tatsuya Yamada, and Kin-ichi Tadano*



Perforatumone Guttiferae Sharpless Asymmetric Epoxidation Dieckmann Condensation

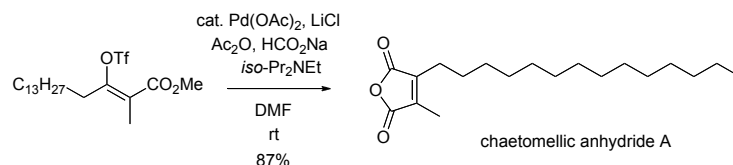
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179 Synthesis of Chaetomelic Anhydride A, a Potent Inhibitor of Ras Protein Farnesyltransferase

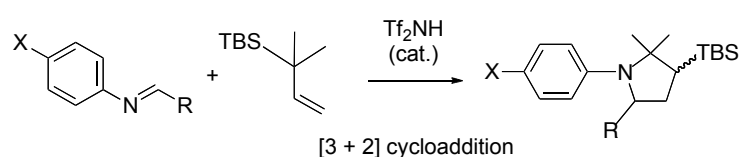
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187 Triflic Imide Catalyzed [3+2] Cycloaddition of Aldimines with α,α -Dimethylallylsilane

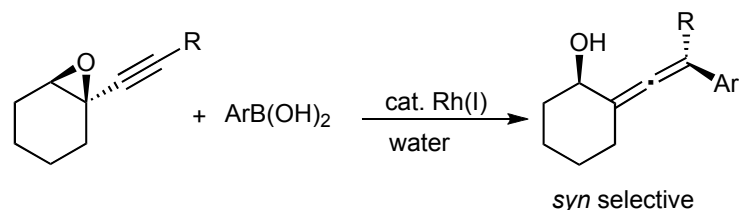
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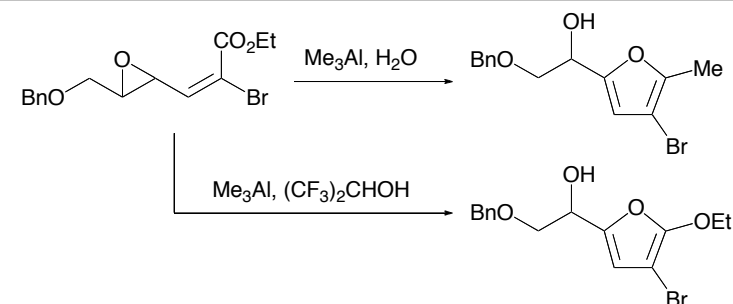
Masahiro Yoshida,* Maiko Hayashi, Kennnosuke Matsuda, and Kozo Shishido



Rhodium Reaction in Water Propargylic Oxirane Addition Diastereoselective

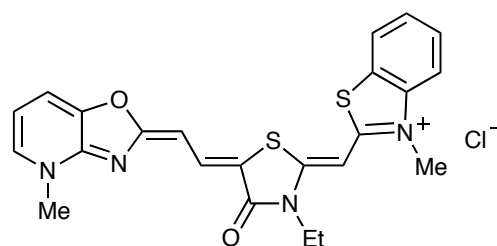
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207 Synthesis and Biological Properties of a Rhodacyanine Derivatives, SSJ-127, having High Efficacy against Malaria Protozoa

Khanitha Pudhom, Jian-Feng Ge, Chika Arai, Mei Yang, Marcel Kaiser, Sergio Wittlin, Reto Brun, Isamu Itoh, and Masataka Ihara*

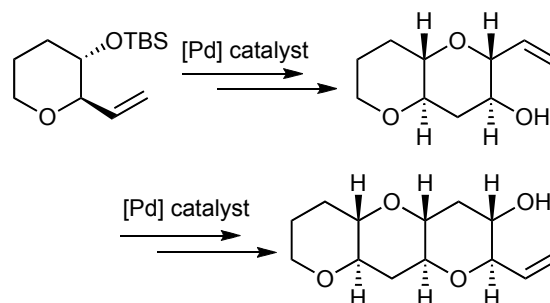


SSJ-127

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211 Pd(II)-Catalyzed Cyclization to Ether and Its Application to the Synthesis of the *trans*-Fused Polyether Core

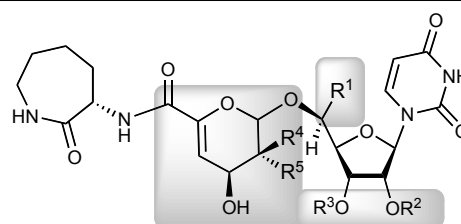
Hajime Yokoyama,* Satoshi Nakayama, Masayuki Murase, Masahiro Miyazawa, Seiji Yamaguchi, and Yoshiro Hirai*



Palladium Catalyst Cyclization Polyether Synthesis

217 Synthetic Studies towards the Identification of Novel Capuramycin Analogs with Mycobactericidal Activity

Michio Kurosu* and Kai Li


 capuramycin: R¹ = CONH₂; R² = H; R³ = Me; R⁴ = OH; R⁵ = H
 decarboxamide-capuramycins: R¹ = H

Capuramycin Antimycobactericidal Activity MraY Inhibitor Capuramycin Analog Synthesis Acid and Base Stable Protecting Group

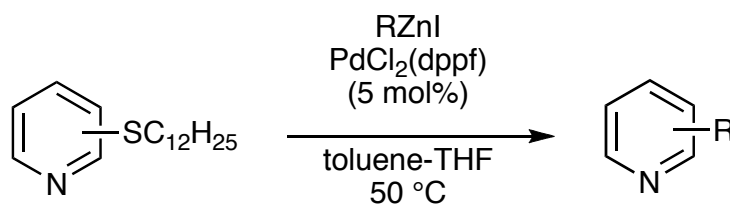
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 Friedel-Crafts Reaction *O*-Glucoside *C*-Glucoside β -Glucosidase Triflic Acid

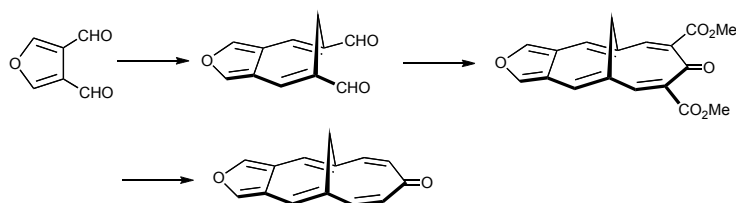
233 Palladium-Catalyzed Coupling of *N*-Heteroaryl Sulfides with Organozinc Reagents

Takahiro Koshiba, Tohru Miyazaki, Hidetoshi Tokuyama,* and Tohru Fukuyama*


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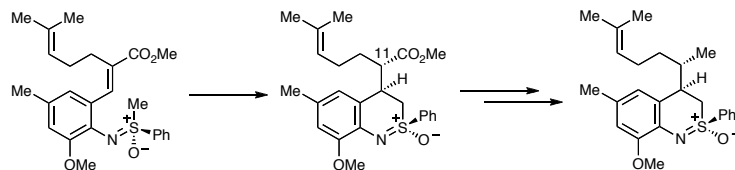
Yanmei Zhang, Nobuhiko Takezawa, Yosikazu Horino, Ayumi Takai, Yasutomo Tsuji, Ryuta Miyatake, Mitsunori Oda, and Shigeyasu Kuroda*



Furan Furo-Annulenone Carbocation Annulenium Cation Protonation

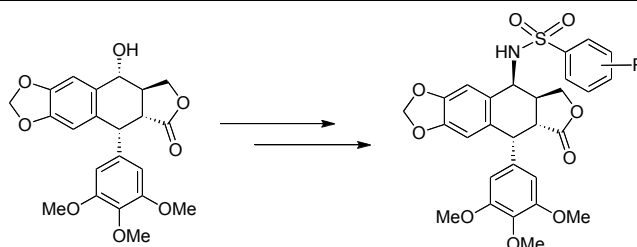
279 Benzothiazines in Organic Synthesis. An Approach to the Synthesis of *seco*-Pseudopteroxazole

Michael Harmata* and Pinguan Zheng


Seco-Pseudopteroxazole Benzothiazine Michael Reaction Sulfoximine Stereoselective Protonation

293 Natural Products-based Insecticidal Agents 1. Semisynthesis and Insecticidal Activity of 4 β -Benzenesulfonamide Derivatives of Podophyllotoxin against *Mythimna separata* Walker

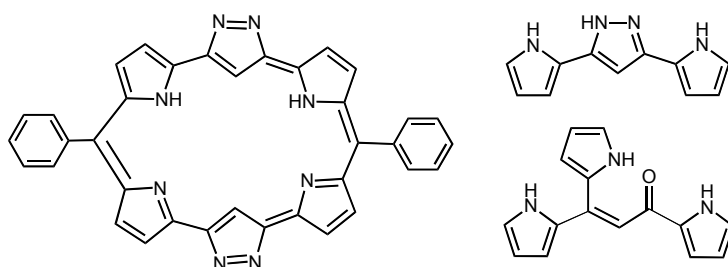
Hui Xu,* Lei Zhang, Su Su, Xing Zhang, and Xuan Tian


 R = OMe; Me; Et; NO₂; Cl; Br; H; Cl and NHCOME; Cl and NHCOEt; Cl and NO₂
 Final mortality rates against *M. separata*: 55.6 – 88.9 %

 Semisynthesis Insecticidal Activity Podophyllotoxin 4 β -Benzenesulfonamide

301 Preparation of Building Block for a Pyrazole Expanded Porphyrin and Isolation of a Tripyrrolyl Ketone Decomposition Product

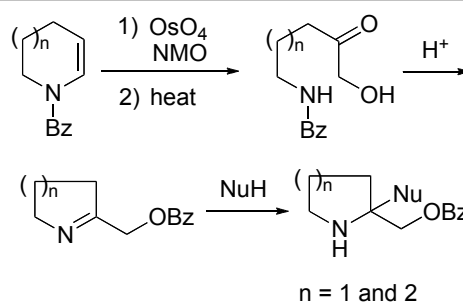
Alfred Hassner* and Eran Fogler



Dipyrrrolylpyrazole Expanded Porphyrin Tripyrrolyl Ketone

311 Ring Contraction of α,β -Unsaturated Cyclic Amines with *cis*-Dihydroxylation at the α,β -Position

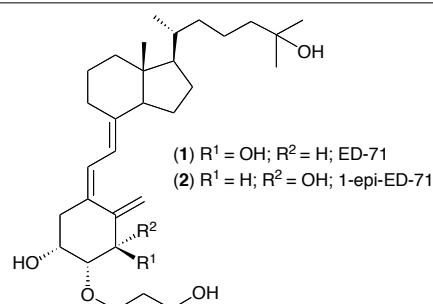
Samuel S. Libendi, Yosuke Demizu, Yoshihiro Matsumura, and Osamu Onomura*



Electrochemical Oxidation Osmium Oxidation Ring Opening Imine Nucleophilic Addition

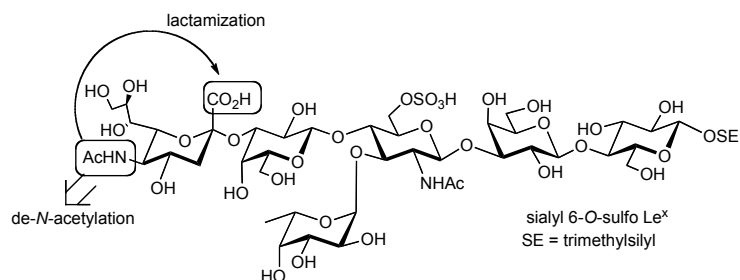
323 An Improved Synthesis of 1-*epi*-ED-71, a Biologically Interesting Diastereomer of 1 $\alpha,25$ -Dihydroxy-2 β -(3-hydroxypropoxy)vitamin D₃ (ED-71)

Kohei Eto, Ayako Fujiyama, Mai Kaneko, Keisuke Takahashi, Jun Ishihara, Susumi Hatakeyama, Yoshiyuki Ono, and Noboru Kubodera*


 Active Vitamin D₃ Analog 1,25(OH)₂-Vitamin D₃ ED-71 1-Epi-ED-71

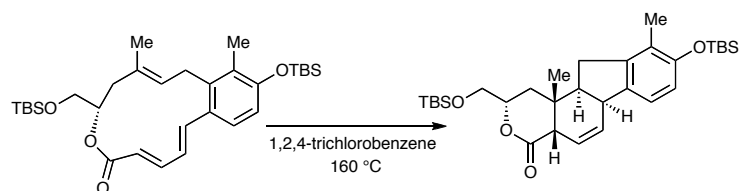
333 Efficient Synthesis of Three Types of Sialyl 6-*O*-Sulfo Lewis X: Probes for the Comprehensive Search for the Interaction between Carbohydrates and Other Biomolecules

Masanori Yamaguchi, Hideharu Ishida, and Makoto Kiso*


 Sialyl Lewis X Glycoprobe Selectin 6-*O*-Sulfo-Sialyl Lewis X Homing

351 A Transannular Diels-Alder Strategy to the Construction of the CDE Ring System of Nakiterposin

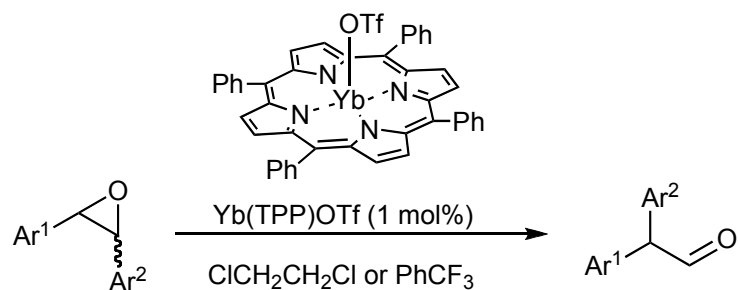
Hiroyoshi Takamura* and Yuji Yamauchi



Marine Natural Product Nakiterposin Synthetic Study Stille Coupling Transannular Diels-Alder Reaction

365 Highly Regioselective Rearrangement of 2,3-Diaryloxiranes into 2,2-Diarylacetaldehydes Catalyzed by Ytterbium(III) Tetraphenylporphyrin Yb(TPP)OTf

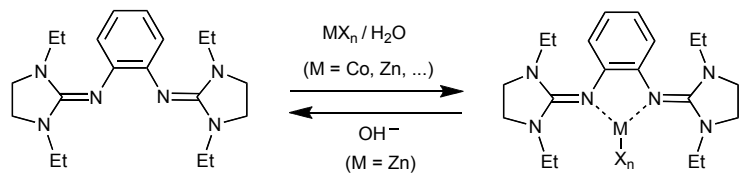
Shin-ichiro Nakajima, Shoichi Nakadaï, Fumio Hino, Toshikatsu Takanami,* and Kohji Suda*



Ytterbium(III) Tetraphenylporphyrin Rearrangement 2,3-Diaryloxirane 2,2-Diarylacetaldehyde Benzotrifluoride

375 Semi-quantitative Approaches to the Coordination Ability of α -Bisguanidinobenzenes with Metal Salts

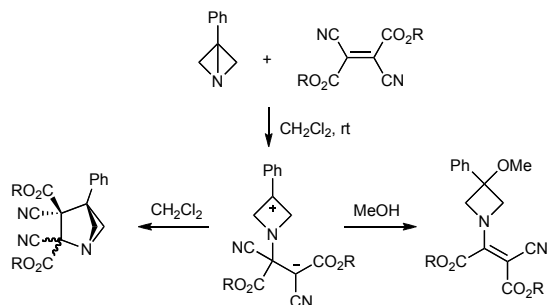
Koji Suda, Noriko Saito, Takuya Kumamoto, Waka Nakanishi, Masatoshi Kawahata, Kentaro Yamaguchi, Yasumitsu Ogura, Kazuko T. Suzuki, and Tsutomu Ishikawa*



Guanidine Bis-Guanidinobenzene Metal Coordination X-Ray

389 Reaction of 1-Azabicyclo[1.1.0]butanes with 2,3-Dicyanofumarates; Interception of the Intermediate Zwitterions with Methanol

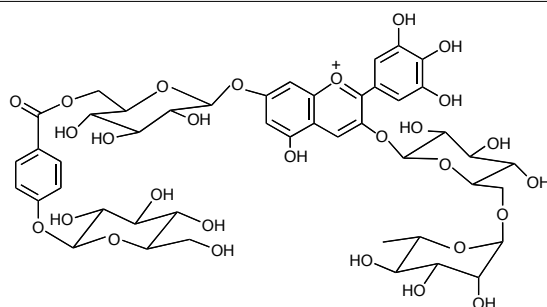
Grzegorz Mloston, Malgorzata Celeda, Anthony Linden, and Heinz Heimgartner*



1-Azabicyclo[1.1.0]butane 2,3-Dicyanofumarate Zwitterinonic Intermediate Trapping Reaction Addition Reaction

401 7-Acylated Anthocyanins with *p*-Hydroxybenzoic Acid in the Flowers of *Campanula medium*

Kenjiro Toki,* Norio Saito, Hiroyuki Nishi, Fumi Tatsuzawa, Atsushi Shigihara, and Toshio Honda


Campanula medium

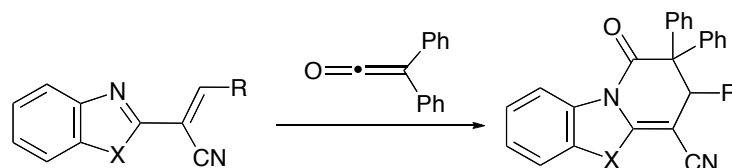
Acylated Anthocyanin

 Delphinidin 3-Rutinoside-7-(glucosyl-*p*-hydroxybenzoylglucoside)

Intramolecular Copigmentation

409 [4+2] Cycloaddition of Diphenylketene to 1-Aza-1,3-dienes

Masanori Sakamoto,* Tatsuya Nakai, Yanagisawa Hiroaki, and Tomomi Kawasaki*


 $X = S, O$
 $R = C_6H_4Y$ ($Y = OMe, Me, H, Cl, CO_2Et$)

Piperidin-2-one

Thiazole

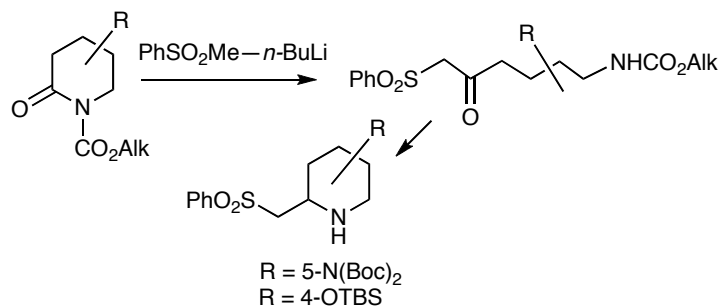
Addition

Cyclization

X-Ray Crystal Structure Analysis

417 Synthesis of 5-Amino and 4-Hydroxy-2-phenylsulfonylethylpiperidines

Julien Massé and Nicole Langlois*


 $R = 5-N(Boc)_2$
 $R = 4-OTBS$

Polyfunctionalized Piperidine

Transamidation

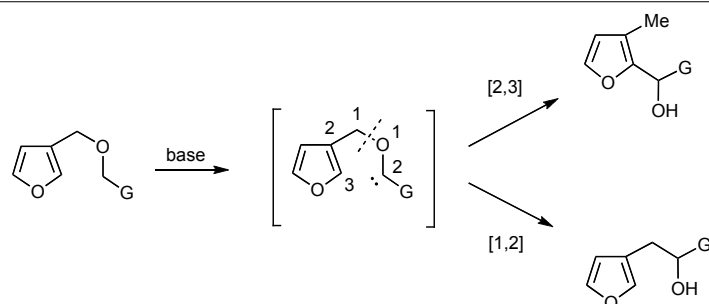
Lactam Nucleophilic Opening

Methyl Phenyl Sulfone

Reductive Aminocyclization

433 Wittig Rearrangement of 3-Furylmethyl Ethers: Facile Synthesis of 3-Methyl-2-furylmethanols and 3-Furylethanols

Masayoshi Tsubuki,* Hiroyuki Okita, Kazunori Kaneko, Atsushi Shigihara, and Toshio Honda*



Wittig Rearrangement

3-Furylmethyl Ether

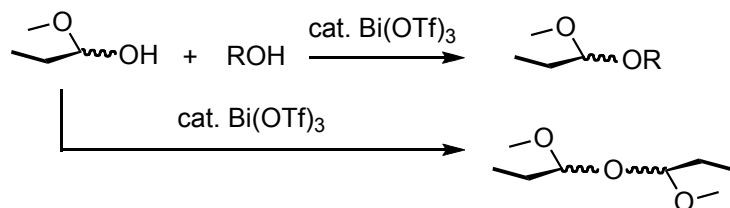
Dendrolasin

Naginata Ketone

BuLi

445 Formation of *O*-Glycosidic Linkages from 1-Hydroxy Sugars by Bismuth(III) Triflate-catalyzed Dehydrative Glycosidation

Takashi Yamanoi,* Ryo Inoue, Sho Matsuda, Kazuya Iwao, Yoshiki Oda, Akihiro Yoshida, and Keita Hamasaki



Glycosidation

Bismuth(III) Triflate

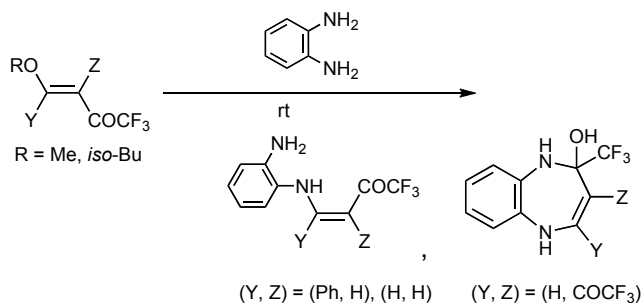
1-Hydroxy Sugar

Glycoside

1,1'-Disaccharide

461 Reaction of β,β -Bis(trifluoroacetyl)vinyl Esters and β -Trifluoroacetylvinyl Esters with 1,2-Phenylenediamines Accessing Fluorine-containing Benzo[*b*][1,4]-diazepine Derivatives — A Study about the Reaction Based on Molecular Orbital Calculations

Norio Ota, Yasuhiro Kamitori,* Takehisa Tomoda, Naoya Terai, and Etsuji Okada*



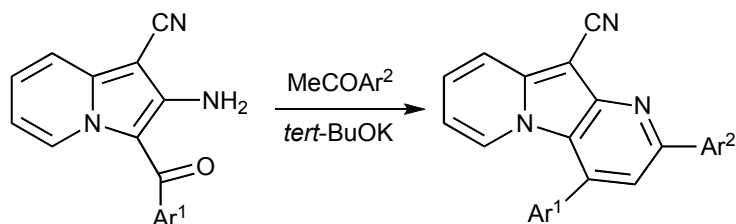
Fluorine-Containing Dihydrobenzodiazepinol and Benzodiazepine

Acid-Catalyzed Dehydration

Intramolecular HOMO-LUMO Interaction

471 Preparation of New Nitrogen-bridged Heterocycles. 64. A Smooth Formation of 2,4-Diarylpyrido[2,3-*b*]indolizine-10-carbonitrile Derivatives

Akikazu Kakehi,* Hiroyuki Suga, and Shuichi Sato



Pyrido[2,3-*b*]indolizine

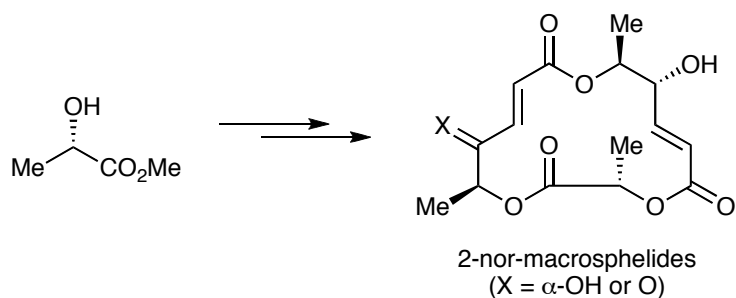
2-Aminoindolizine

Acetophenone

Condensation

483 Total Synthesis of 2-Nor-macrosphelide A and B

Yuji Matsuya,* Takashi Matsushita, Keiji Sakamoto, and Hideo Nemoto*



Macrosphelide

Ring-Closing Metathesis

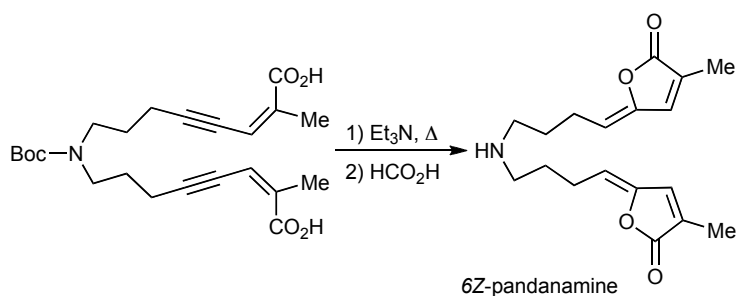
Total Synthesis

Macrolide

Apoptosis

493 Synthesis of 6Z-Pandanamine by Regioselective Cyclization Reaction of 2-En-4-yneic Acid Derivatives Promoted by Weak Base

Ko Hiroya,* Kazuya Takuma, Kiyofumi Inamoto, and Takao Sakamoto



Cyclization Reaction

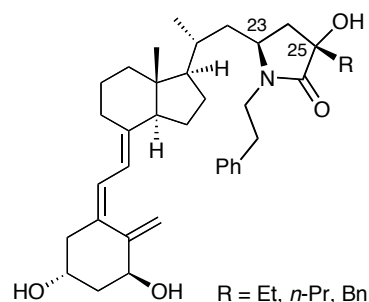
6Z-Pandanamine

2-En-4-yne-carboxylic Acid

Base

507 Synthesis and Biological Activities of VDR Antagonists; 25-Modified 1 α ,25-Dihydroxyvitamin D3-26,23-Lactam (DLAM) Derivatives

Yuko Kato-Nakamura, Jun-ichi Namekawa, Seiichi Ishizuka, Hiroshi Saitoh, Kazuya Takenouchi, and Kazuo Nagasawa*



Vitamin D Derivative

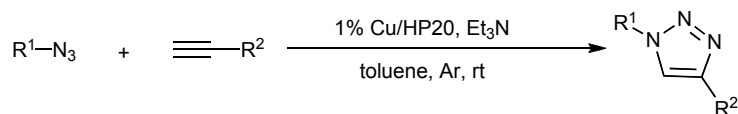
Antagonist

Lactam

DLAM

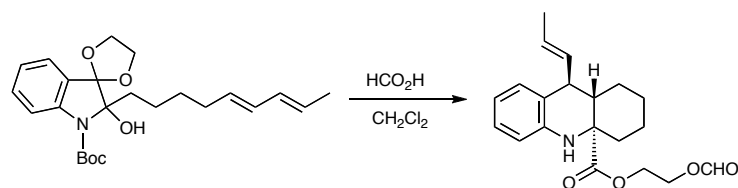
SAR

521 Copper/HP20: Novel and Polymer-Supported Copper Catalyst for Huisgen Cycloaddition

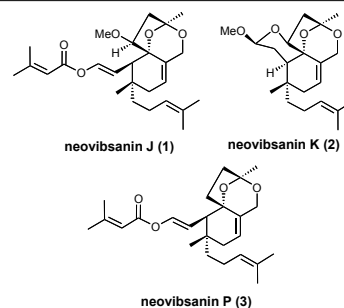
 Yoshiaki Kitamura, Kazumi Taniguchi, Tomohiro Maegawa,
 Yasunari Monguchi, Yukio Kitade, and Hironao Sajiki*


Polymer-Supported Heterogeneous Catalyst Environmentally-Friendly Huisgen's Cycloaddition Reaction Reusability

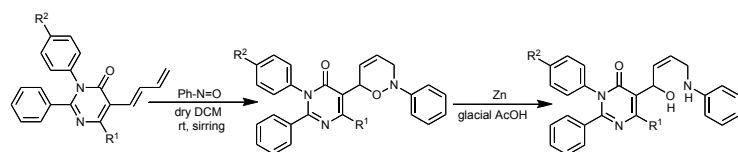
533 Stereoselective Synthesis of a 4a,9-Disubstituted Octahydroacridine from Isatin

 Hideki Abe, Yoshimi Sato, Kazuhiro Watanabe,
 Sakae Aoyagi, Chihiro Kibayashi, and Tadashi Katoh*

 4a,9-Disubstituted Octahydroacridine Isatin *N*-Acylindolium Ion Conjugated Diene Formic Acid

539 Acetal — Bearing Rearranged Vibsane-Type Diterpenoids from *Viburnum awabuki*

 Miwa Kubo, Yuka Minoshima, Daiki Arimoto, Hiroyuki Minami,
 Kenichi Harada, Hideaki Hioki, and Yoshiyasu Fukuyama*

 Vibsane-Type Diterpenoid Neovibsanin Rearranged Vibsane-Type *Viburnum awabuki* Structure Elucidation

547 Regioselective Nitroso Diels-Alder Cycloaddition Reactions of 5-Dienyl Pyrimidinones and Transformation to Novel 4-Amino-alcohol Tethered Pyrimidinones

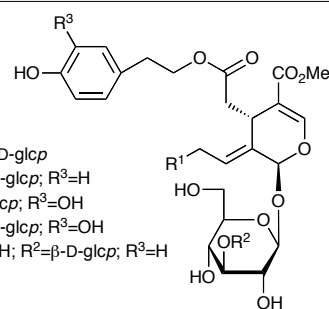
 Amit Anand, Gaurav Bhargava, Pardeep Singh, and
 Mohinder P. Mahajan*


Pyrimidinone Nitrosobenzene Dihydrooxazine Amino-Alcohol Zinc-Glacial Acetic Acid

■ NOTES

 557 **Secoiridoid Di-Glycosides from *Osmanthus ilicifolius***

Shigeaki Sakamoto, Koichi Machida, and Masao Kikuchi*



- 1 : R¹=R³=H; R²=β-D-glcp
 2 : R¹=OAc; R²=β-D-glcp; R³=H
 3 : R¹=H; R²=β-D-glcp; R³=OH
 4 : R¹=OAc; R²=β-D-glcp; R³=OH
 5 (hiiragilide): R¹=OH; R²=β-D-glcp; R³=H

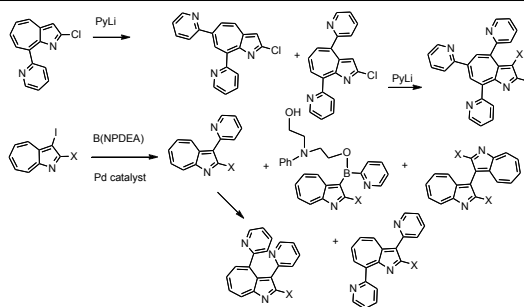
Osmanthus ilicifolius

Oleaceae

Oleoside-Type Secoiridoid Diglycoside

Hiiragilide

 565 **Synthesis of [Poly(2-pyridyl)-substituted]-1-azaazulenes**

 Tomoyuki Ariyoshi, Tomonori Noda, Satomi Watarai,
 Shoji Tagashira, Yoshiko Murakami, Hiroyuki Fujii,
 and Noritaka Abe*


(2-Pyridyl)-1-azaazulene

Suzuki Coupling

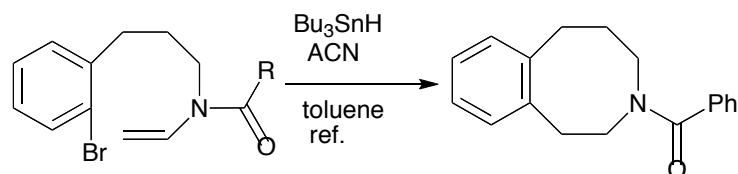
Addition-Elimination

3,3'-Bi(1-azaazulene)

Iodo-1-azaazulene

 575 **8-Endo-Selective Aryl Radical Cyclization Leading to 3-Benzazocines**

Tsuyoshi Taniguchi, Hisaaki Zaimoku, and Hiroyuki Ishibashi*



Radical Cyclization

3-Benzazocine Aryl Radical

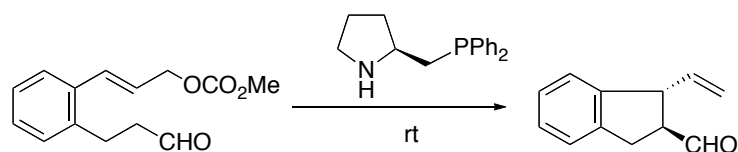
8-Endo-Cyclization

3-Benzazocine

Aryl Radical

 587 **Catalytic Asymmetric Intramolecular Allylation of Aldehyde**

Tomohiro Sato* and Kiyoshi Tomioka*



Allylation

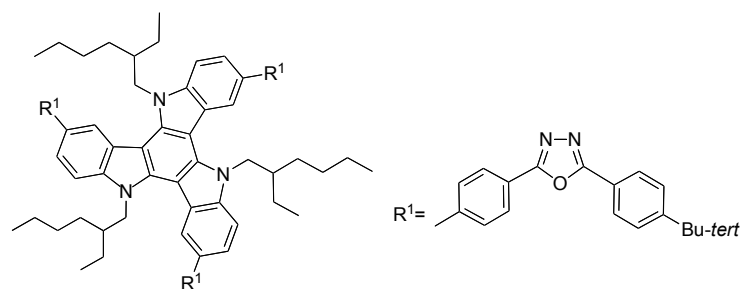
Intramolecular Reaction

Asymmetric Reaction

Catalytic Reaction

Pyrrolidine

 595 **Synthesis and Properties of Disk-Shaped Bipolar Symmetric Cyclic Triindole Derivative**

 Hidetaka Hiyoshi,* Tetsuya Aoyama, Tatsuo Wada,
 Takaaki Sonoda, and Shuntaro Mataka


Symmetric Cyclic Triindole

Bipolar

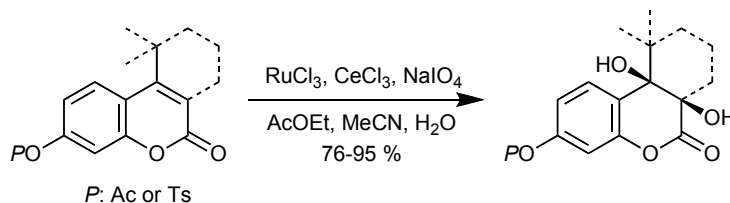
Fluorescence

Electroluminescence

Wet Process

603 Dihydroxylation of Functionalized Coumarin Derivatives

Keiko Fusegi, Takuya Kumamoto,* Waka Nakanishi, and Tsutomu Ishikawa*

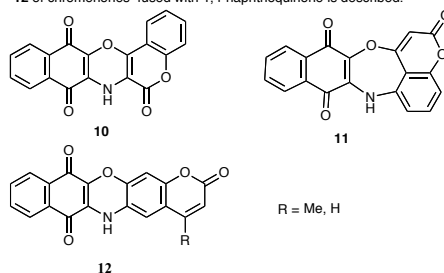


Dihydroxylation Coumarin Ruthenium Cerium Tetrasubstituted Olefin

611 Facile and Efficient Synthesis of Novel Oxazine, Oxazepine and Phenoxazine of Chromenones Fused with 1,4-Naphthoquinone

Vishnu K. Tandon* and Hardesh K. Maurya

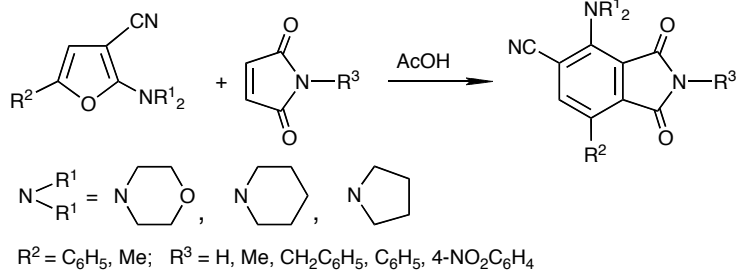
A concise synthesis of oxazine, 10 oxazepine, 11 phenoxazine, 12 of chromenones fused with 1,4-naphthoquinone is described.



Chromenone 2,3-Dichloro-1,4-naphthoquinone Oxapine Oxazepine Phenoxazine

617 Diels-Alder Reaction of 2-(Cyclic Amino)-substituted 3-Furancarboxitriles with Maleimides to Phthalimides

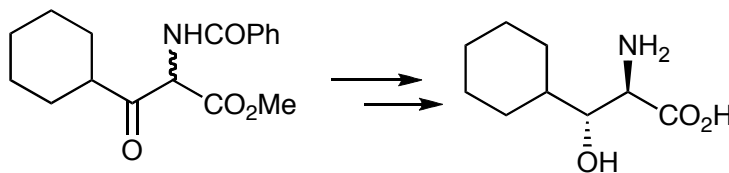
Hiroshi Maruoka,* Fumi Okabe, Yoshimichi Koutake, Toshihiro Fujioka, and Kenji Yamagata



Diels-Alder Reaction Cycloaddition Furan Phthalimide Maleimide

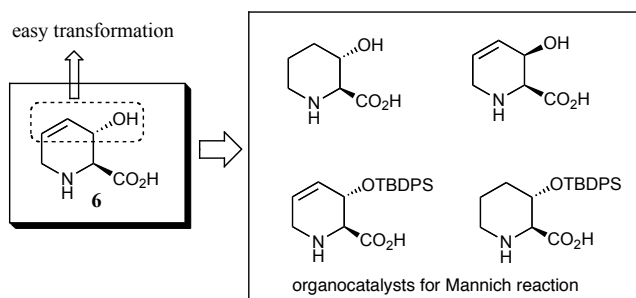
629 Highly Stereoselective Synthesis of (2*R*,3*R*)-2-Amino-3-cyclohexyl-3-hydroxypropionic Acid Using Asymmetric Hydrogenation

Kazuishi Makino, Takayuki Goto, Junpei Ohtaka, and Yasumasa Hamada*


 (2*R*,3*R*)-2-Amino-3-cyclohexyl-3-hydroxypropionic Acid CCR5 Antagonist Noyori Asymmetric Hydrogenation α -Benzoylamino- β -keto Ester

635 Modified 3-Hydroxypipercolic Acid Derivatives as an Organocatalyst

Yuichi Yoshimura, Chiaki Ohara, Tatsunori Miyagawa, and Hiroki Takahata*



Organocatalyst Amino Acid Pipercolic Acid Asymmetric Reaction Mannich Reaction

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