

■ PREFACES

- 1 **Preface**
In Honor of Professor Pierre Potier on the Occasion of his
70th Birthday
Shiro Ikegami*

-
- 3 **Pierre Potier**
Outstanding Contribution in the Area of Medicinal
Chemistry
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- 5 **Pierre Potier at 70**
Guy Ourisson*
-

■ CURRICULUM VITAE

- 7 **Biographical Data**
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Pierre Potier*
-

■ PUBLICATIONS

11 Selection of Publications

Pierre Potier*

■ SUMMARY

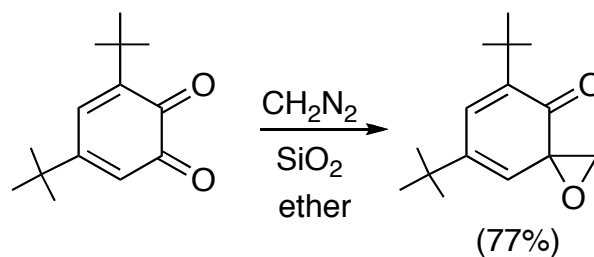
19 Comments on P. Potier's Scientific Achievements

Pierre Potier*

■ COMMUNICATIONS

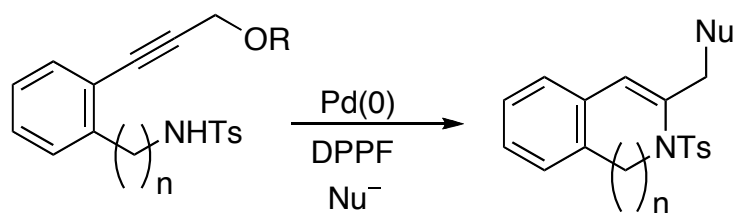
23 Homologation of Vicinal Polyketone Networks to Epoxy Ketones with Diazomethane

Ryan E. Hartung and Leo A. Paquette*

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27 **Synthesis of Bicyclic Heterocycles from Propargyl Esters Using a Palladium Catalyst Bearing a Bidentate Ligand**

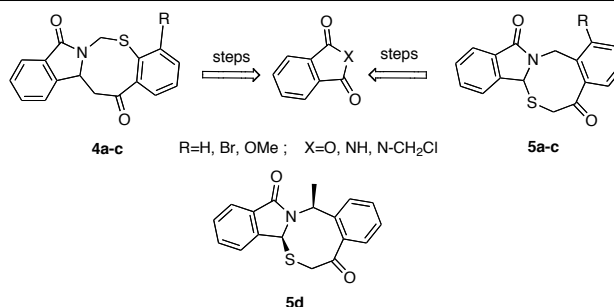
Masaya Tsubakiyama, Yoshihiro Sato, and Miwako Mori*



Palladium Allenylpalladium Complex Propargylpalladium Complex Isoquinoline Benzoazepine

33 **Access to the New Isoindolo[1,3]benzothiazocinones via the Combination of *N*-Acyliminium Chemistry and Friedel-Crafts Type π -Cyclization**

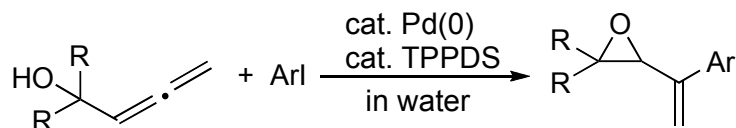
Armelle Cul, Adam Daïch,* Bernard Decroix, Gérard Sanz, and Luc Van Hijfte



N-Acylium Ion π -Cyclization Stereoselectivity Isoindolinone [1,3]Benzothiazocinone

41 **Palladium-catalyzed Insertion-Cyclization Reaction of 2,3-Dienyl Alcohols with Aryl Iodides in Water: Synthesis of 1-Arylvinyl-substituted Epoxides**

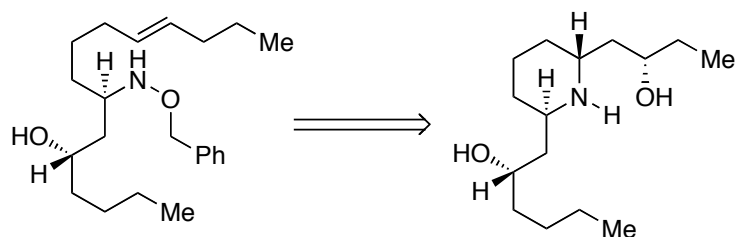
Masahiro Yoshida,* Takayuki Ishii, Takahiro Gotou, and Masataka Ihara*



Allenol Aryl Iodide Epoxide Palladium Water

45 **Iodine-induced Cyclizations of *N*-Alkoxyaminoalkenes. A Stereocontrolled Approach to *trans*-2,6-Disubstituted Piperidine Alkaloids**

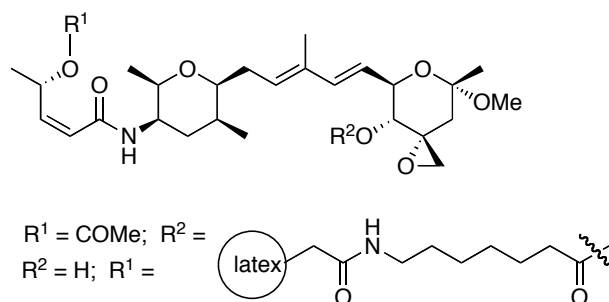
David R. Williams,* Martin H. Osterhout, and George S. Amato



trans-2,6-Disubstituted Piperidine Aminohalogenation 1,3-Amino Alcohol Intramolecular Stereoselective

51 **Synthesis of Affinity Nanoparticles Coupled to FR901464 Derivatives**

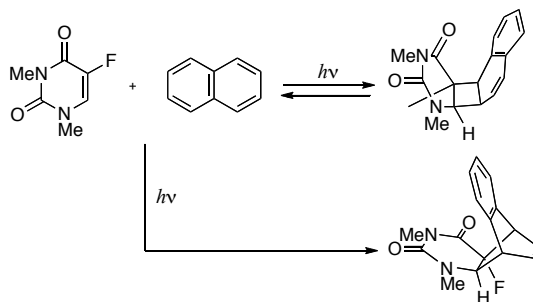
Yoshimasa Imamura, Yoshihiro Ohtsu, Hiroshi Tanaka, Mamoru Hatakeyama, Takashi Manabe, Haruma Kawaguchi, Hiroshi Handa,* and Takashi Takahashi*



Chemical Genomics Affinity Purification Tetrahydropyran Latex Nano Particle FR901464

57 Mode Switching during the Cycloaddition of 5-Fluoro-1,3-dimethyluracil with Naphthalene from 1,4- to 1,2-Addition

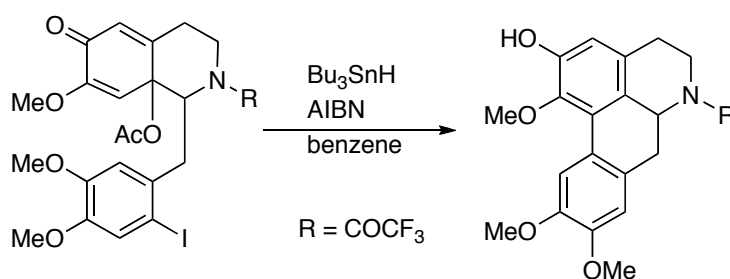
Kazue Ohkura,* Tatsuyuki Sugaoi, Tetsuya Ishihara, and Koh-ichi Seki*



Mode-selective Cycloaddition Short-period Irradiation Photoreaction Piperylene Tetrahydronaphthocyclobutapyrimidine

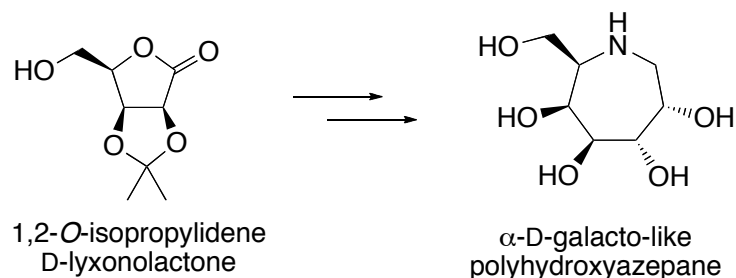
61 Synthesis of *N*-Trifluoroacetyl-2-hydroxynoraporphine by Radical Reaction of ρ -Quinol Acetate of *N*-Trifluoroacetyl-1-(2-iodoveratryl)methyl-1,2,3,4-tetrahydro-7-methoxyisoquinolin-6-ol

Akiko Moriya and Osamu Hoshino*


 Radical Reaction Tributyltin Hydride Tris(trimethylsilyl)silane 2-Hydroxynoraporphine ρ -Quinol Acetate

65 Polyhydroxyazepanes Mimicking Monosaccharides: Synthesis of an α -D-Galacto-like Iminoheptitol

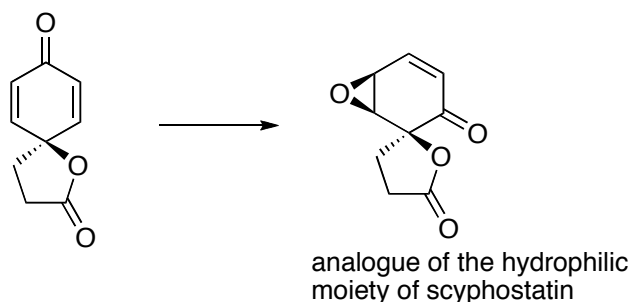
Hongqing Li, Yves Blériot,* Jean-Maurice Mallet, Yongmin Zhang, Eliazar Rodriguez-Garcia, Pierre Vogel, Silvia Mari, Jesús Jiménez-Barbero, and Pierre Sinaÿ*



Azepane Glycosidase Inhibitor Iminoalditol RCM

■ PAPERS
75 Synthetic Study of an Analogue of the Hydrophilic Moiety of Scyphostatin *via* π -Facial Selective Diels-Alder Reaction

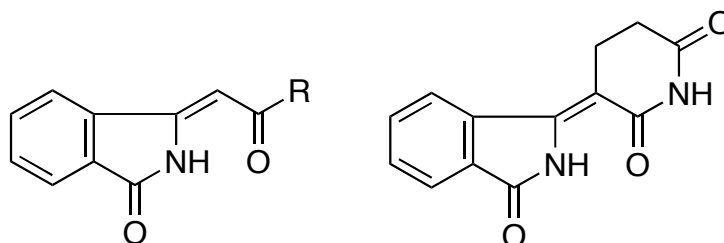
Wataru Miyanaga, Ryukichi Takagi, and Katsuo Ohkata*



Stereoselective Synthesis Diels-Alder Reaction Scyphostatin

93 Synthesis of 3-Alkylidene-isoindolinones via Sulphide Contraction

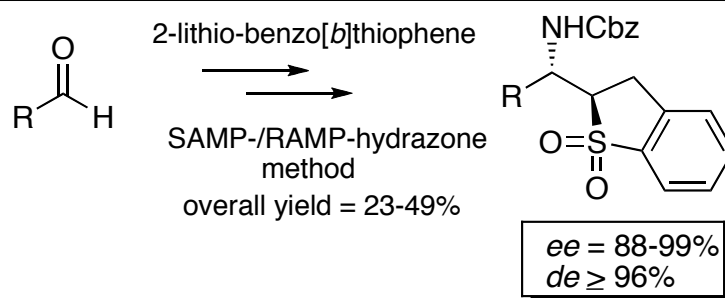
Xiaoxiang Zhu, Nigel H. Greig,* Qian-sheng Yu, Tada Utsuki, Harold W. Holloway, Debomoy K. Lahiri, and Arnold Brossi



Lawesson's Reagent Isoindolinone Sulfide Contraction Thalidomide Monothiothalidomide

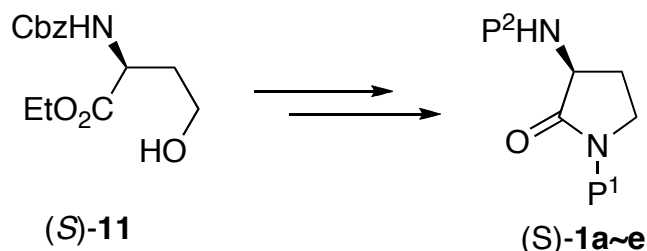
101 Asymmetric Synthesis of Heterocyclic β -Aminosulfones via Nucleophilic 1,2-Addition of 2-Lithiobenzo[*b*]thiophene to Aldehyde-SAMP-hydrazone

Dieter Enders* and Giuseppe Del Signore


 Benzo[*b*]thiophene Asymmetric Synthesis Hydrazone Aminosulfone 1,2-Addition

121 A Flexible Approach to (*S*)-3-Amino-2-pyrrolidinone Derivatives

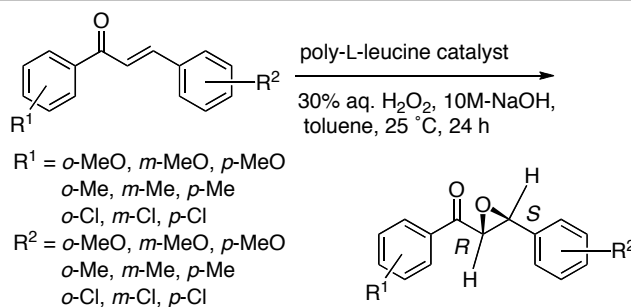
Tian Tang, Chen Zhu, and Pei Qiang Huang*



Stereoselective Synthesis Aspartic Acid Staudinger Reaction 2-Pyrrolidinone Reduction

129 Influence of Polymerization Degree of Poly-L-leucine Catalyst and Substituent Effect on the Juliá-Colonna Asymmetric Epoxidation of Benzalacetophenones

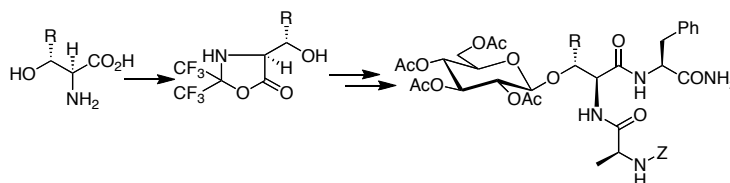
Ryukichi Takagi, Shahnaz Begum, Akiko Siraki, Arata Yoneshige, Kin-ichirou Koyama, and Katsuo Ohkata*



Epoxidation Reaction Benzalacetophenone Asymmetric Reaction Substituent Effect Poly-L-leucine Catalyst

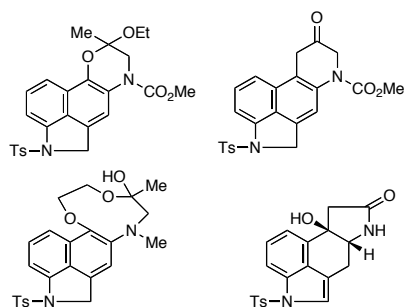
143 Hexafluoroacetone as Protecting and Activating Reagent: A New Approach to *O*-Glycosides

Klaus Burger,* Michael Kluge, Beate Kocsch, Susanna Fehn, Christoph Böttcher, Lothar Hennig, and Gerhard Müller


 Hexafluoroacetone Glycoconjugate *O*-Glycosylation Multifunctional Amino Acid 1,3-Oxazolidin-5-one

153 Chemistry of Indoles Carrying a Basic Function. Part IX. Unexpected Cyclizations of Diketones Derived from Uhle's Ketone

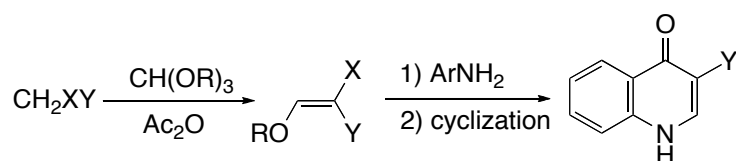
István Moldvai,* Eszter Gács-Baitz, Eszter Termesvári-Major, Mária Incze, László Poppe, and Csaba Szántay*



Alkaloid Ergoline Aldol Condensation Isomerization Cyclization

177 Solvent-free Synthesis of Quinolone Derivatives

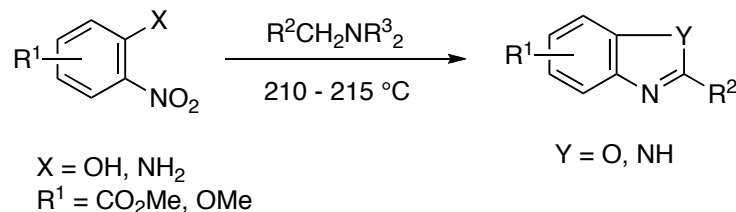
Petra Černuchová, Giang Vo-Thanh, Viktor Milata,* and André Loupy*



Solvent-free Reaction Microwave Activation Alkoxyethylene Quinolone Gould-Jacobs Reaction

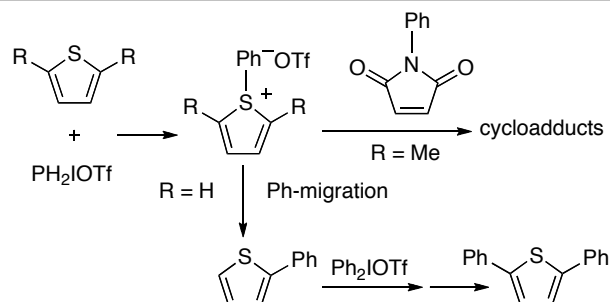
193 Novel Synthesis of Benzoxazoles from *o*-Nitrophenols and Amines

Hiromi Nishioka,* Yukiko Ohmori, Yumiko Iba, Eri Tsuda, and Takashi Harayama*


o-Nitrophenol Benzoxazole *o*-Nitroaniline Benzimidazole Diethylaniline

199 Diels-Alder Reaction and Double Phenylation in Reaction of Thiophenes with Diphenyliodonium Triflate

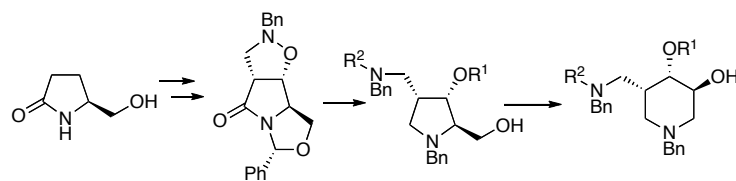
Bian-Xiang Zhang, Takato Nuka, Yuzo Fujiwara, Teizo Yamaji, Zhaomin Hou, and Tsugio Kitamura*



1-Phenylthiophenium Triflate Cycloaddition Phenyl Migration

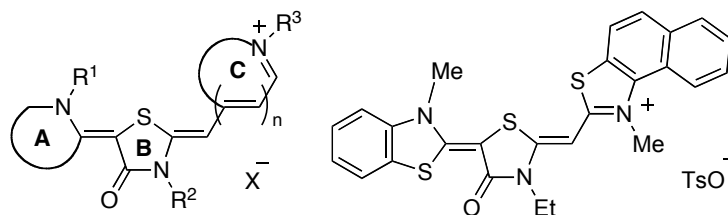
207 Stereoselective Synthesis of 4-Aminomethyl-3-hydroxyprolinols and Ring Expansion into Enantiopure Polyfunctionalized Piperidines

Abdallah Deyne, Jean-Marc Delcroix, and Nicole Langlois*



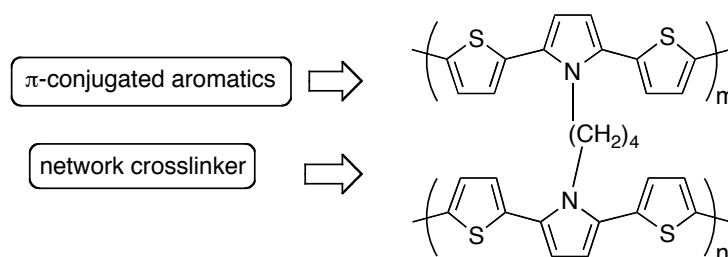
1,3-Dipolar Cycloaddition Ring Expansion Selective Reduction Pyrrolidine 3,4,5-Trisubstituted Piperidine

215 Antileishmanial Activities of Rhodacyanine Dyes

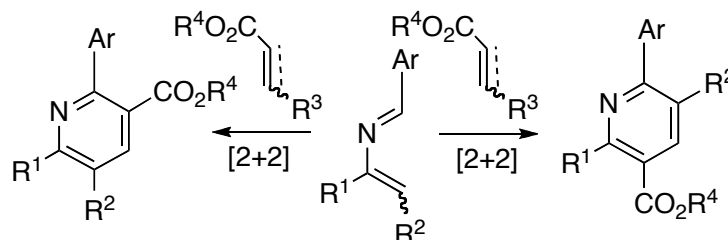
 Kiyosei Takasu,* Hiroki Terauchi, Hiroshi Inoue,
 Marii Takahashi, Setsuko Sekita, and Masataka Ihara*


Tropical Disease Antileishmanial Activity Synthesis Rhodacyanine Dye Structure-Activity Relationship

223 Electrochemical Polymerization of Tetramethylene-crosslinked Bis(2,5-di-2-thienyl-1*H*-pyrrole)

 Katsuhiko Ono,* Hiroaki Totani, Masakazu Ohkita,
 Katsuhiko Saito,* and Masaki Kato

 Electrochemical Synthesis Film Formation Technology Network Polymer π -Conjugated Copolymer SEM Observation

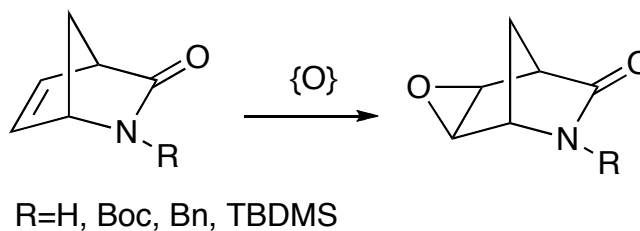
229 Cycloaddition Reactions of Neutral 2-Azadienes with Acetylenic Esters

 Francisco Palacios,* Concepción Alonso, Cristina Tobillas,
 and Gloria Rubiales


Dihydropyridine Pyridine 2-Aza-1,3-butadiene

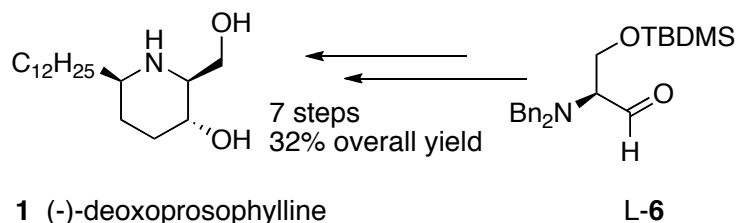
241 Preparation of 2',3'-Oxirane-fused Carbocyclic Nucleosides Based on *N*-Substituted 2-Azabicyclo-[2.2.1]hept-5-en-3-ones

Minoru Ishikura,* Kota Matsumoto, and Atsushi Murakami


 ABH *exo*-Epoxy ABH Epoxidation Facial Selectivity Carbocyclic Nucleoside

249 A Short Synthesis of (-)-Deoxoprosophylline

Angélique Jourdan and Jieping Zhu*



Piperidine Alkaloid Amino Aldehyde Intramolecular Reductive Amination Asymmetric Synthesis Deoxoprosophylline

261 Synthesis of 2,3-Dihydrofuro[3,2-*c*]pyridine-3,4-dicarboxylic Acid, a Conformationally Constrained Analogue of the Subtype Selective NMDA Receptor Agonist Homoquinolinic Acid

Marcus Vinicius Nora de Souza, Zhaohua Yan, and Robert H. Dodd*



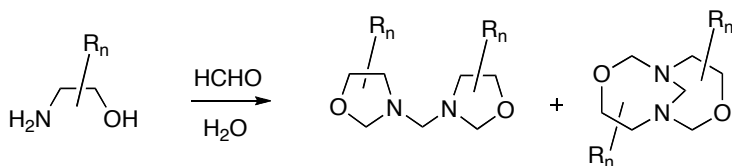
homoquinolinic acid (HA)

constrained form of HA

Radical Cyclization TEMPO Tributyltin Hydride Picolinic Acid

277 Studies on the Condensation Products from *N*-Primary 1,2-Amino Alcohols and Formaldehyde

David J. Aitken,* Laure Besson, Françoise Fournier, Henri-Philippe Husson, Pascale Lemoine, Denis Lesage, Francine Libot, Pierre-Guy Martin, Christelle Mellin-Morlière, Valérie Monnier, Jean-Claude Tabet, and Bernard Viossat

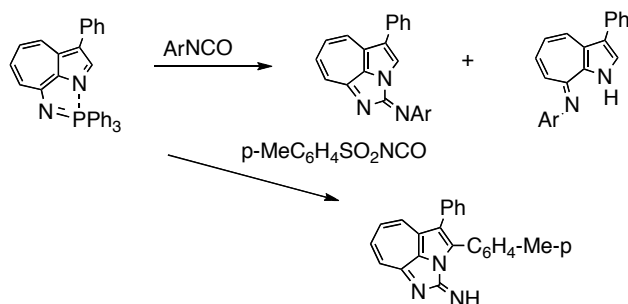


2:3 adducts, mainly

Condensation Reaction Bis(oxazolidine)methane 1,6-Diaza-3,8-dioxabicyclo[4.4.1]undecane Structural Analysis

291 Reactions of 3-Phenyl-8-triphenylphosphoimino-1-azaazulene with Aryl Isocyanate, Aryl Isothiocyanate, and Carbon Disulfide

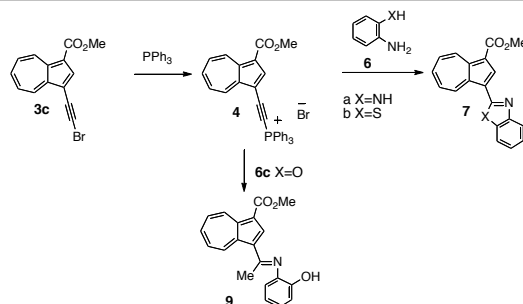
Kentaro Nagamatsu, Hiroyuki Fujii, Noritaka Abe,* and Akikazu Kakehi



Iminophosphorane Azaazulene Aza-Wittig Reaction Rearrangement X-Ray Structure Analysis

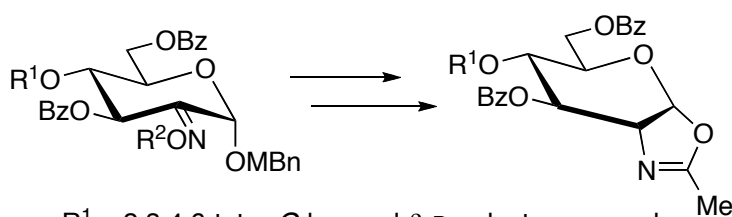
305 Synthesis of Azulene-3-ylheterocyclic Compounds Using 2-(3-Methoxycarbonylazulene-1-yl)ethynyl-triphenylphosphonium Bromide

Noboru Morita,* Shiro Moriyama, Taku Shoji, Masashi Nakashima, Masataka Watanabe, Shigeru Kikuchi, Shunji Ito, and Kunihide Fujimori


 3-(1*H*-Benzoimidazol-2-yl)-, 3-(Benzothiazol-2-yl)-, and 3-(1*H*-Perimidin-2-yl)azulene-1-carboxylate Ethynyltriphenylphosphonium Bromide

317 Alternative Access to Lactosamine-derived Oxazoline via 2-Ulose Oxime as a Key Intermediate

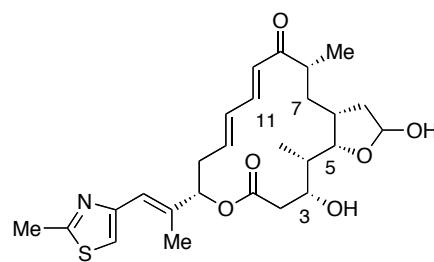
Eisuke Kaji,* Yumiko Osa, Naomi Shinohara, Chiho Yanagi, Masae Sekine, and Takashi Nishino


 $R^1 = 2,3,4,6\text{-tetra-}O\text{-benzoyl-}\beta\text{-D-galactopyranosyl}$
 $R^2 = p\text{-substituted benzoyl or acetyl}$

 2-Oxazoline *N*-Acetyllactosamine 2-Ulose Oxime Stereoselective Reduction Cyclization

333 Design and Synthesis of 16-Membered Hybrid Macrolide Having a Thiazole Side Chain on the Carbonolide Skeleton

Noriyuki Nakajima* and Makoto Ubukata

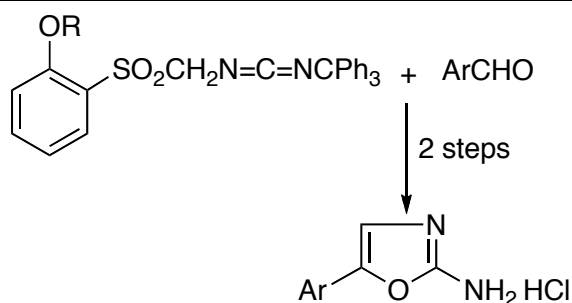


hybrid macrolide

Hybrid Macrolide Epothilone 16-Membered Lactone Thiazole Sidechain Wittig-Horner Macrolactonization

347 Synthesis and Reactions of *N*-*o*-Anisylsulfonylmethyl- and *N*-*o*-*sec*-Butoxysulfonylmethylcarbodiimides with Aldehydes

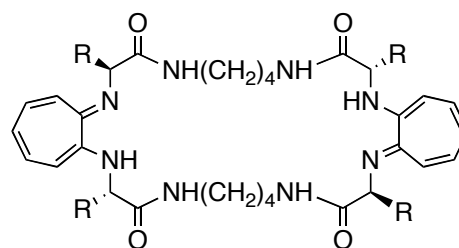
Vishnu K. Tandon,* Kunwar A. Singh, Sanjay Rai, and Albert M. van Leusen



Carbodiimide Mannich Reaction 2-Amino-1,3-oxazole Sulfinic Acid

357 Optically Active Tropecoronands Having Amino Acid Residues in Linker Chains: Syntheses, Metal Coordination Properties, and Their Abilities as an Asymmetric Catalyst

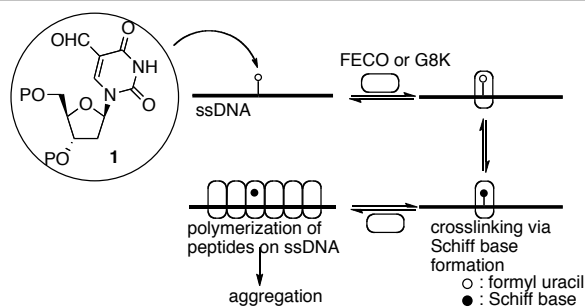
Ohki Sato* and Akira Tanbo


 R = Me, *i*-Pr, CH₂Ph

Tropecoronand L-Amino Acid Metal Coordination Property Asymmetric Catalyst Conjugate Addition

367 Schiff Base Formation between 5-Formyl-2'-deoxyuridine and Lysine ϵ -Amino Group at Monomer and Oligomer Levels

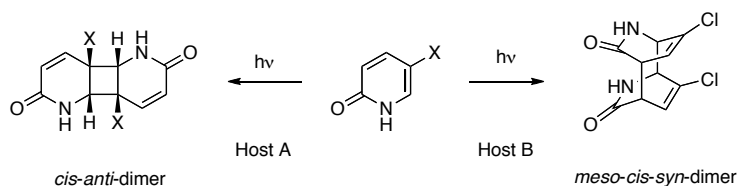
Atsushi Kittaka,* Chikafumi Horii, Hiromichi Tanaka, Tadashi Miyasaka, Kazuo T. Nakamura, Reiko Kuroda, and Toru Sugiyama*



5-Formyl-2'-deoxyuridine Schiff Base Mediated Crosslinking RecA Peptide DNA-Protein Interaction Aggregation

383 New [2+2] and [4+4] Photodimerizations of 2-Pyridones in an Inclusion Complex with a Simple Carboxylic Acid Host: A Model of DNA Damage by Photodimerization of Its Thymine Component

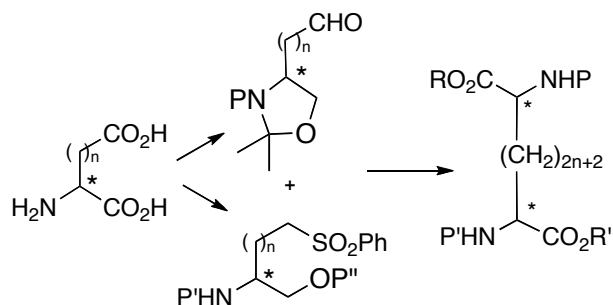
Shinya Hirano, Shinji Toyota, and Fumio Toda*



2-Pyridone Photodimerization Inclusion Complex DNA Damage

393 Synthesis of Orthogonally Protected Enantiopure 2,9-Diaminodecanedioic Acid: A Model for a New General Method for the Synthesis of Orthogonally Protected α,α' -Diaminodicarboxylic Acids

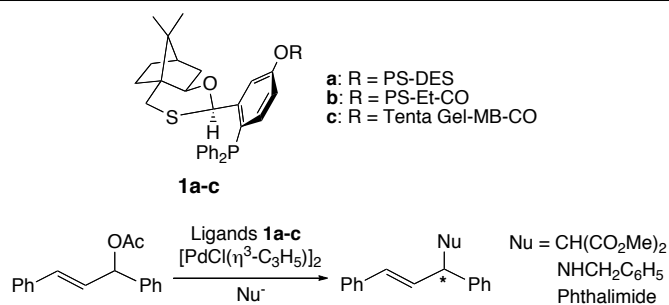
Cyrille Truchot and N. André Sasaki*



α,α' -Diaminodicarboxylic Acid Orthogonal Protection Oxazolidine Julia Olefination

407 Polymer-supported Phosphinooxathiane as Ligands for Palladium-catalyzed Asymmetric Allylations

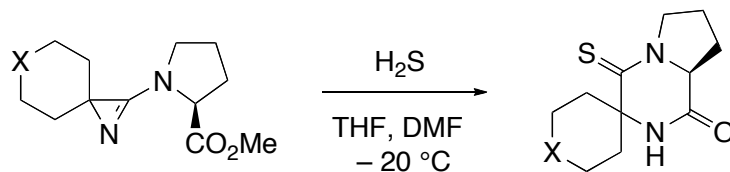
Hiroto Nakano,* Kouichi Takahashi, and Reiko Fujita



Chiral Ligand Catalytic Asymmetric Synthesis S-P Type Ligand Allylic Alkylation Allylic Amination

417 Synthesis of Perhydropyrrolo[1,2-*a*]pyrazine-1,4-diones and Their Sulfur-Analogues by Ring-Enlargement of *N*-(2*H*-Azirin-3-yl)-L-prolinates

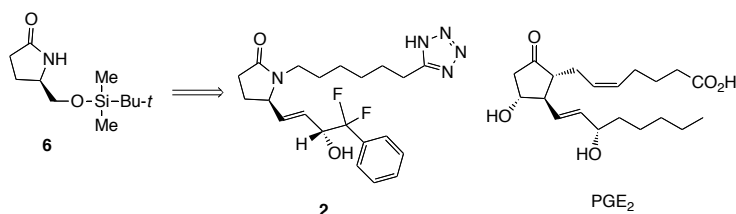
Artur Budzowski, Anthony Linden, and Heinz Heimgartner*



2*H*-Azirin-3-amine Diketopiperazine Ring Enlargement Dipeptide

437 Discovery and Synthesis of a Potent, Selective and Orally Bioavailable EP4 Receptor Agonist

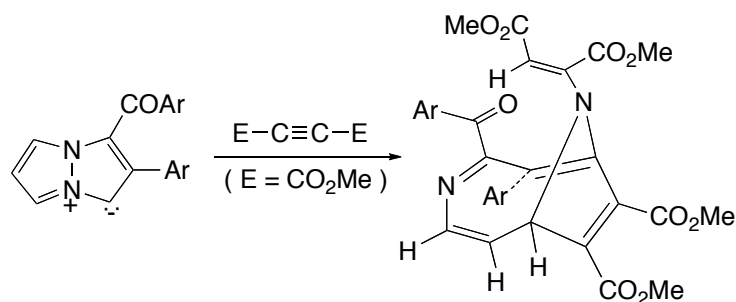
Robert N. Young,* Xavier Billot, Yongxin Han, Deborah A. Slipetz, Nathalie Chauret, Michel Belley, Kathleen Metters, Marie-Claude Mathieu, Gillan M. Greig, Danielle Denis, and Mario Girard



Prostaglandin E2 EP4 Agonist Synthesis Oral Bone

447 A Facile Formation of anti-Bredt's Compounds from the Reaction of 1-Aroyl-2-aryl-3a,6a-diazapentalenes with Acetylenedicarboxylates

Hirokazu Iida, Hidehiro Uekusa, Yuji Ohashi, Hiroshi Hamana, Takahisa Machiguchi,* and Kiyoshi Matsumoto*

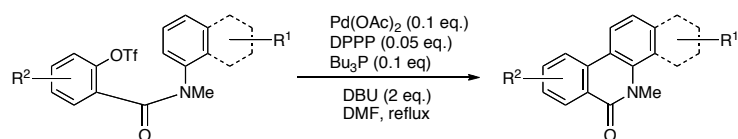


anti-Bredt Compound [8+2] Cycloaddition Diazapentalene Michael Reaction 1,3-Dipolar Cycloaddition

■ NOTES

463 Intramolecular Pd-catalyzed Biaryl Coupling Reaction of *N*-Aryl-2-triflyloxybenzamides Using Pd(OAc)₂, 1,3-Bis[diphenylphosphino]propane, Bu₃P, and DBU

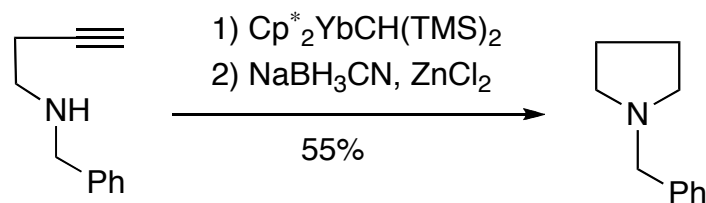
Hiromi Nishioka, Yoshimi Shoujiguchi, Hitoshi Abe, Yasuo Takeuchi, and Takashi Harayama*



Biaryl Coupling Aryl Triflate Pd-catalyzed Reaction Arene DBU

467 Organolanthanide Catalyzed Intramolecular 5-endo-dig Hydroamination: An Unusual Anti-Markovnikov Cyclization

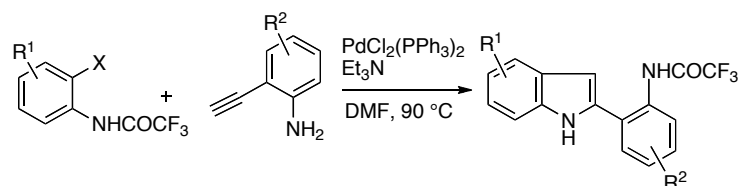
Gary A. Molander* and Hikaru Hasegawa



Hydroamination Lanthanocene Catalysis Cyclization Aminoalkyne

475 2-(*o*-Aminoaryl)indole Derivatives *via* the Coupling-Cyclization of *o*-Alkynylanilines with *o*-Halotrifluoroacetanilides in the Presence of a Palladium Catalyst

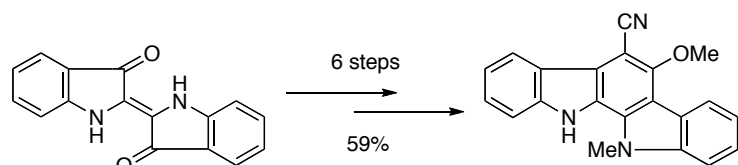
Antonio Arcadi, Sandro Cacchi,* Giancarlo Fabrizi, Fabio Marinelli, and Luca M. Parisi



Palladium Catalysis Cyclization Indole Alkyne

483 Short Step Synthesis of an Antibiotic, 6-Cyano-5-methoxy-12-methylindolo[2,3-*a*]carbazole

Masanori Somei,* Fumio Yamada, Yoshiaki Suzuki, Shinobu Ohmoto, and Hiroyuki Hayashi



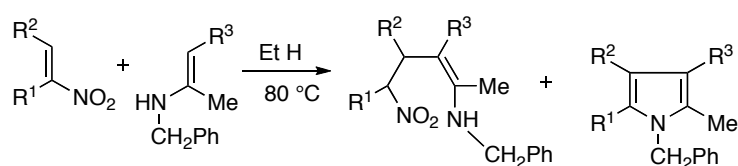
indigo

 intellectual property factor (IPF): 53.8
 application potential factor (APF): 100
 originality rate (OR): 57%

 6-Cyano-5-methoxy-12-methylindolo[2,3-*a*]carbazole Intellectual Property Factor Application Potential Factor Originality Rate

491 Combinatorial Chemical Synthesis of 4-Heteroaryl-3-substituted Pyrroles from Nitroalkenes

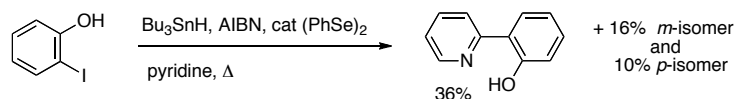
Clara Baldoli, Giuseppe Cremonesi, Concetta La Rosa, Piero Dalla Croce,* and Emanuela Licandro



Pyrrole Nitroalkene Enamine Nitrile Combinatorial Chemical Synthesis

499 Direct Synthesis of Heterobiaryls by Radical Addition to Pyridine: Expeditious Synthesis of Chelating Ligands

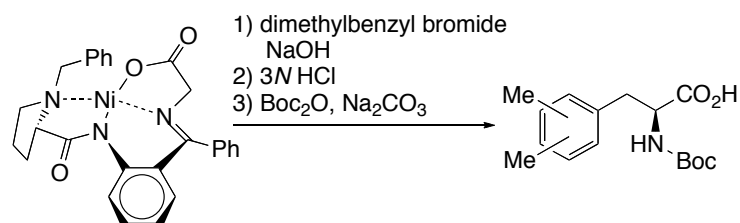
David Crich* and Mitesh Patel



Dearomatization Biaryl Ligand Bipyridine Radical Addition

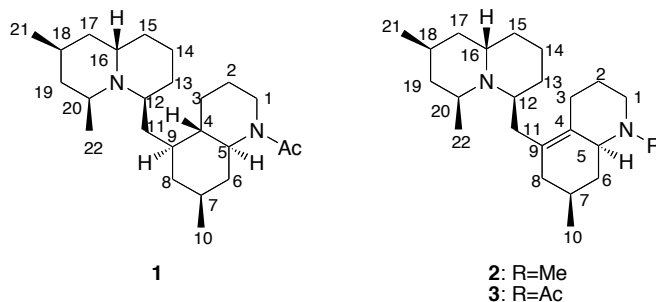
505 Asymmetric Synthesis of All Six Regioisomers of *N*-Boc-dimethyl-phenylalanines

Hidekazu Ouchi, Midori Kumagai, Shinobu Sakurada, and Hiroki Takahata*


 (*S*)-2-*N*-(*N*-Benzylpropyl)aminobenzophenone Chiral Glycine Ni(II)-Complex Diastereomeric Alkylation Dimethylbenzyl Bromide

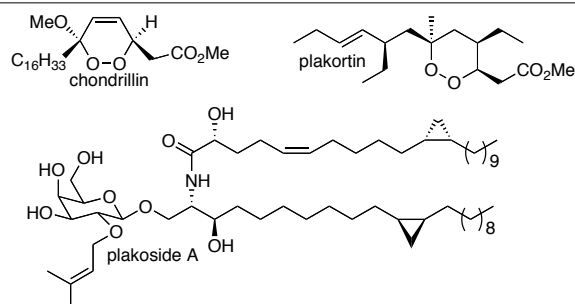
515 Senepodine F, a New C₂₂N₂ Alkaloid from *Lycopodium chinense*

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


Lycopodium Alkaloid Senepodine F *Lycopodium chinense* Quinolizidine Decahydroquinoline

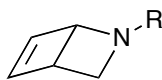
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523 Metabolites from Marine Sponges of the Genus *Plakortis*

Fredrik Rahm, Patricia Y. Hayes, and William Kitching*


 Marine Sponge *Plakortis* *Plakinastrella* Peroxy Compound Glycosphingolipid

577 **2-Azabicyclo[2.2.0]hex-5-enes and 2-Azabicyclo[2.2.0]hexanes. A Review**

Grant R. Krow* and Kevin C. Cannon



2-azabicyclo[2.2.0]hex-5-enes

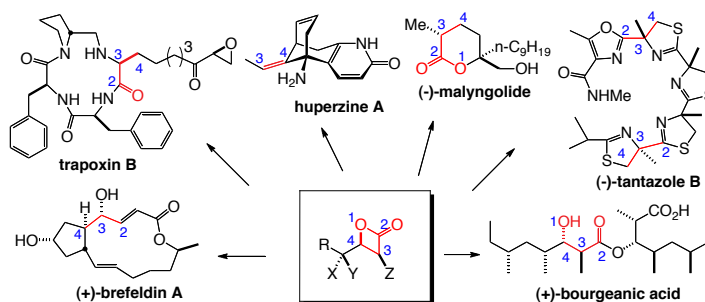


2-azabicyclo[2.2.0]hexanes

2-Azabicyclo[2.2.0]hex-5-ene 2-Azabicyclo[2.2.0]hexane Azetidine Rearrangement Electrocyclization

605 **β -Lactones: Intermediates for Natural Product Total Synthesis and New Transformations**

Yingcai Wang, Reginald L. Tennyson, and Daniel Romo*



2-Oxetanone Chiron Masked Aldol Ring Opening

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