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Bernhard Kräutler*

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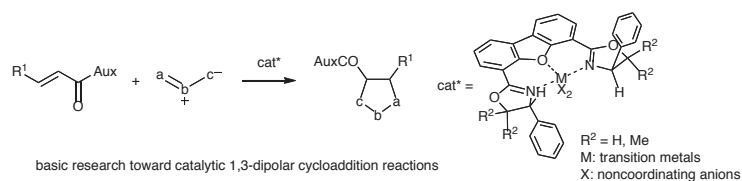
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Engelbert Zass*
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Shuji Kanemasa*



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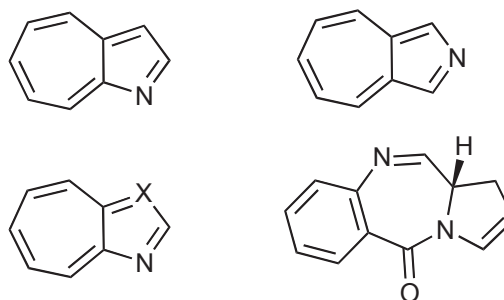
N-Metalated Azomethine Ylide

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201 The Chemistry of Azaazulenes

Noritaka Abe* and Takahiro Gunji



Azaazulene

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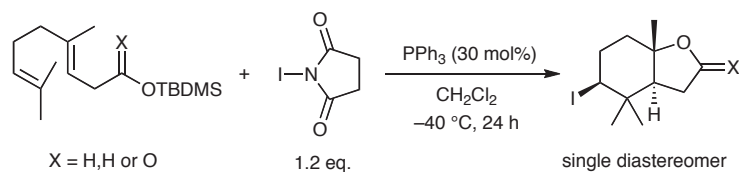
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249 Nucleophilic Phosphine-Catalyzed Iodocyclization of Isoprenoids Bearing an Oxygen Terminal Group

Akira Sakakura, Gakujun Shomi, Atsushi Ukai, and Kazuaki Ishihara*



Iodocyclization

Nucleophilic Catalysis

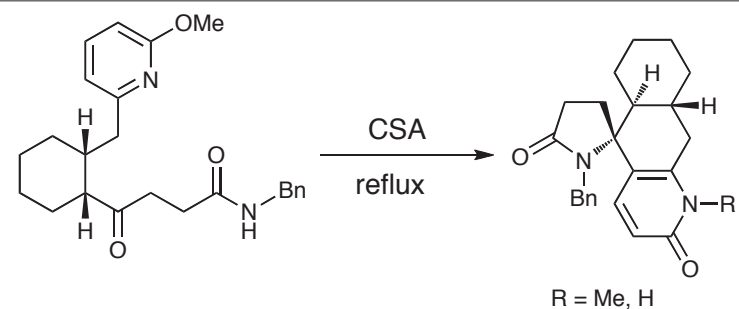
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 257 Spirocyclization of an *N*-Acyliminium Ion with Substituted Pyridine: Stereoselective Synthesis of Tetracyclic Spirolactams Possessing the Pyridone Nucleus

Hideki Abe, Kei-ichi Takaya, Kazuhiro Watanabe, Sakae Aoyagi,* Chihiro Kibayashi, and Tadashi Katoh*



Spirocyclization

N-Acyliminium Ion

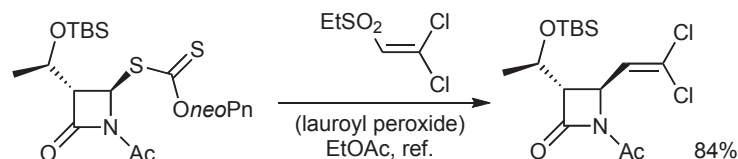
Pyridine

Tetracyclic Spiro-Lactam

Brønsted Acid

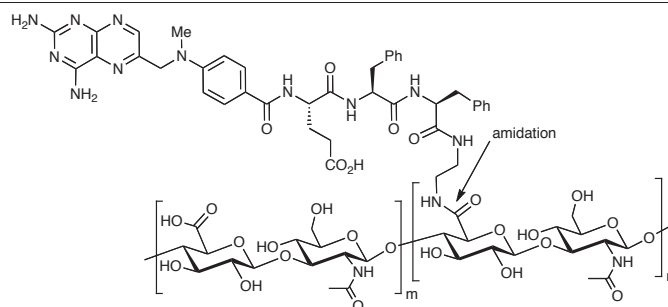
263 A Flexible Route to 4-Substituted β -Lactams

Béatrice Quiclet-Sire* and Samir Z. Zard*


 β -Lactam Xanthate Radical Addition Tris(trimethylsilyl)silane Radical Desulfurisation

273 Amidation of Hyaluronic Acid with a Methotrexate-Derived Amine: Optimization of the Key Reaction for the Synthesis of a Candidate Drug for the Treatment of Osteoarthritis

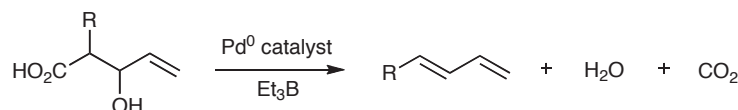
Akie Homma,* Takenori Ishizawa, Haruhiko Sato,* Akira Okamachi, Takashi Emura, Tatsuya Kato, Tetsu Matsuura, Shigeo Sato, Masahisa Ikemi, Hironoshin Kitagawa, Tadashi Morikawa, Hitoshi Ikeya, and Koichi Takahashi



High Molecular Weight HA Degradation of HA Gel Permeation Chromatography Acetyltryptophan

281 Decarboxylative C-C Bond Cleavage Reactions *via* Oxapalladacycles

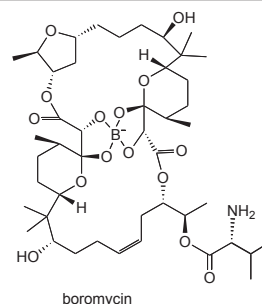
Masanari Kimura,* Tomohiko Kohno, Kei Toyoda, and Takamichi Mori



Palladium Cleavage Triethylborane Metalacycle Carbon Dioxide

289 Boromycin Derivatives: Synthesis and Antimalarial Activity *in vitro* and *in vivo*

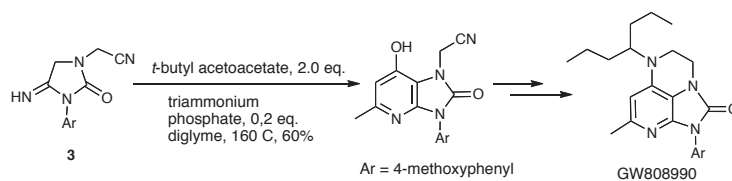
Ayumi Tsutsui, Yujiro Furuya, Tomoyasu Hirose, Riyon Kim, Rokuro Masuma, Atsuko Matsumoto, Yoko Takahashi, Aki Ishiyama, Miyuki Namatame, Kazuhiko Otoguro, Satoshi Ōmura,* and Toshiaki Sunazuka*



Natural Product Boromycin Structure-Activity Relationship Antimalarial Activity Chloroquine Resistance

297 A Novel Synthesis of a 1,3-Disubstituted 1,3-Dihydro-2*H*-imidazo[4,5-*b*]pyridin-2-one. Application to GW808990 a CRF₁ Receptor Antagonist

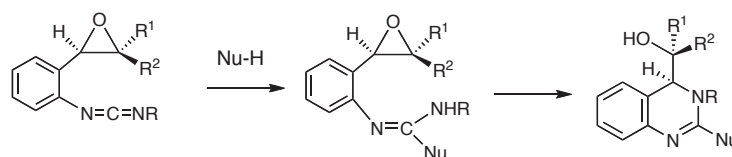
Jerome F. Hayes* and Matthew E. Popkin



Iminohydantoin Buchwald-Hartwig Amination 4-Hydroxypyridine Acetylketene and Cyclocondensation

305 Synthesis of 2,3,4-Tri-Substituted 3,4-Dihydroquinazolines via Tandem Nucleophilic Addition/Epoxy Ring-Opening Cyclization Methodology Using *N*-(2-Oxiranylphenyl)-carbodiimides with Nucleophiles

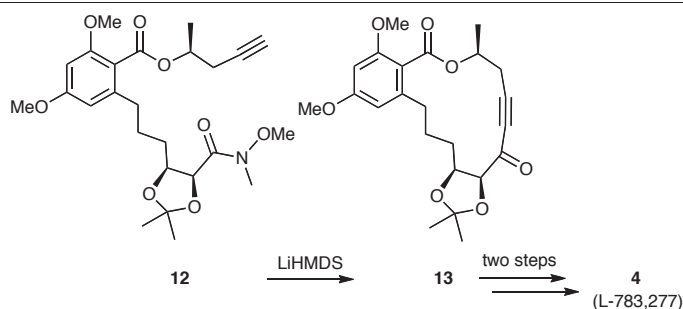
Takao Saito,* Tatsuya Ote, Masahiro Shiotani, Hiroko Kataoka, Takashi Otani, and Noriki Kutsumura



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313 An Enantioselective Synthesis of the Resorcylic Acid Lactone L-783,277 via Addition of an Acetylide Anion to a Tethered Weinreb Amide

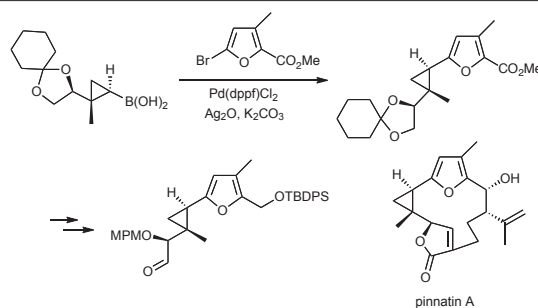
Andrew Lin, Anthony C. Willis, and Martin G. Banwell*



Acetylide Anion L-783,277 Macrolactonization Resorcylic Acid Lactone Weinreb Amide

319 Enantioselective Synthesis of the C(2)-C(11) Cyclopropylfuran Segment of Pinnatin A

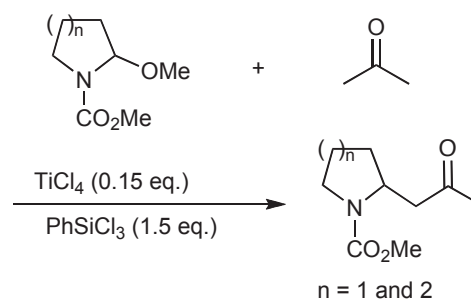
Masayoshi Tsubuki,* Terunobu Abekura, Kazunori Takahashi, and Toshio Honda*



Pinnatin A Suzuki Cross-Coupling Reaction Silver(I) Oxide Cyclopropylfuran Synthetic Study

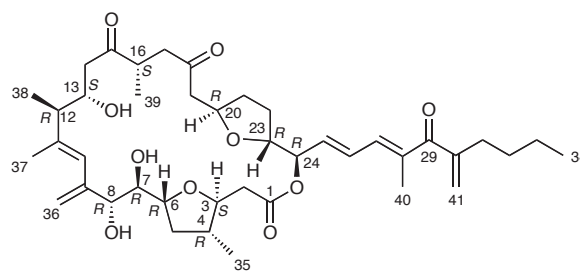
■ PAPERS
325 Mannich-Type Reaction of *N,O*-Acetals with Ketones Mediated by a Combination of TiCl_4 and PhSiCl_3

Satoshi Kamogawa, Takashi Ikeda, Masami Kuriyama, Yoshihiro Matsumura, and Osamu Onomura*


 Mannich-Type Reaction Trichlorosilane Titanium Tetrachloride *N,O*-Acetal Ketone

333 Amphidinolide C3, a New Cytotoxic 25-Membered Macrolide from Marine Dinoflagellate *Amphidinium* Sp.

Takaaki Kubota, Akiko Suzuki, Mika Yamada, Shigeyuki Baba, and Jun'ichi Kobayashi*

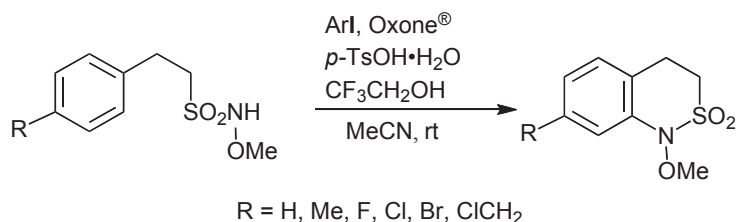


amphidinolide C3

 Dinoflagellate *Amphidinium* species Macrolide Amphidinolide C3

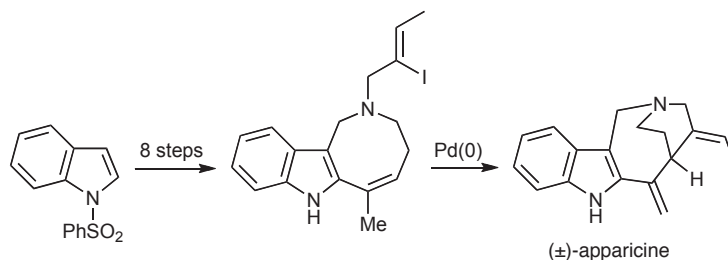
339 Iodoarene-Mediated Cyclization of *N*-Methoxy-2-arylethanesulfonamides with Oxone

Yoshihide Ishiwata, Yuhsuke Suzuki, and Hideo Togo*


 Iodoarene *N*-Methoxy-2-arylethanesulfonamide *N*-Methoxy-3,4-dihydro-2,1-benzothiazine-2,2-dioxide Oxone® *N*-Methoxybenzolactam

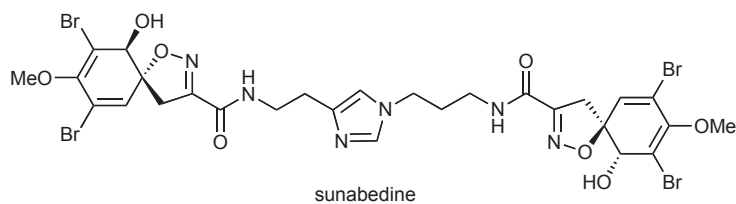
349 Synthesis of 1,2,3,4,5,7-Hexahydro-6*H*-azocino[4,3-*b*]indol-6-ones as Intermediates for the Synthesis of Apparicine

Jason G. Kettle, David Roberts, and John A. Joule*


 Indole Mannich Reaction Apparicine Alkaloid *N*-Phenylsulfonyl-2-pyrrolidone

371 Sunabedine, a Novel Toxic Bromotyrosine-derivative Alkaloid from Okinawan Sponge, Order *Verongida*

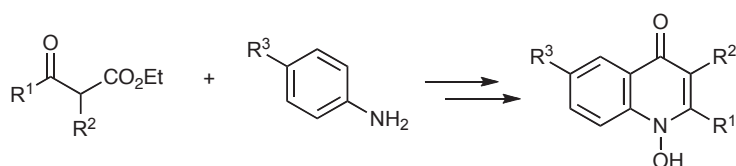
Norihito Maru, Tomoyuki Koyama, Osamu Ohno, Kaoru Yamada, and Daisuke Uemura*



Bromotyrosine-derivative Alkaloid Sunabedine Cytotoxicity against Tumor Cells Toxicity against Brine Shrimp

377 Synthesis of Novel 1-Hydroxyquinolones with High Anti-Toxoplasma Activity

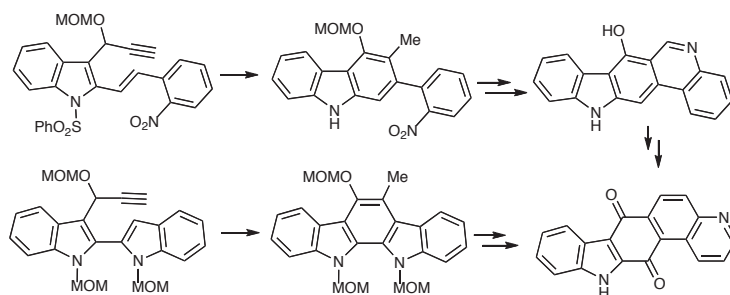
Lutz F. Tietze* and Ling Ma



Antimalaria Agent Ketoester Conrad-Limpach Cyclization Hydroxyquinolone Quinoline

397 Total Synthesis of Bioactive Indolo[3,2-*f*]phenanthridine Alkaloid, Calothrixin B

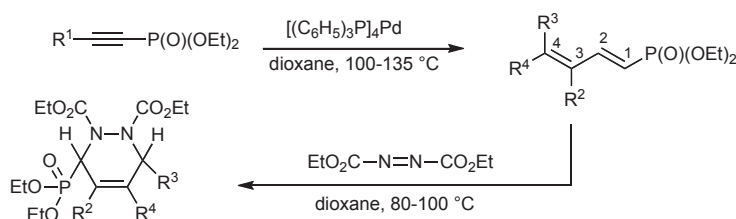
Shigeo Tohyama, Tominari Choshi,* Kohji Matsumoto, Akira Yamabuki, Yuhzo Hieda, Junko Nobuhiro, and Satoshi Hibino*



Calothrixin B Indolophenanthridine Allene-Mediated Electrocyclic Reaction Biomimetic Synthesis Total Synthesis

417 Isomerization of Diethyl 1-Alkynylphosphonates to 1,3-Dienylphosphonates Followed by Diels-Alder Reaction with DEAD, Maleic Anhydride and Maleimide

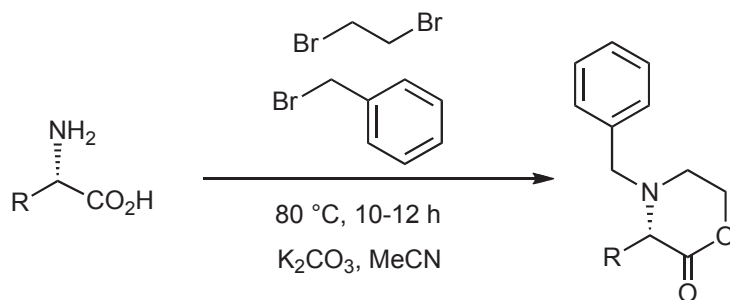
Abdullatif Azab, Abed Al Aziz Quntar, Tamar Antebi, and Morris Srebnik*



Palladium(0) Diene Stereoselective Reaction Endo-Adduct Half-Chair

431 Simple and Efficient One Pot Synthetic Protocol to Construct Morpholin-2-ones

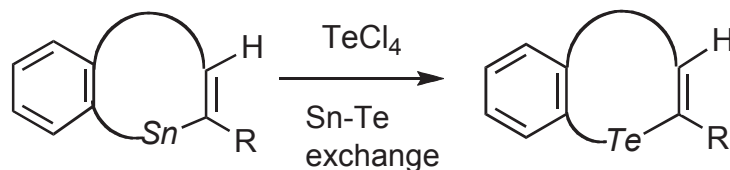
Gorakh S. Yellol, Debendra K. Mohapatra, Mukund K. Gurjar,* and Chung-Ming Sun*



Amino Acid One Pot Synthesis Morpholin-2-one Three Component Reaction Dibromoethane

441 Tin-Tellurium Exchange Reaction in Tin-Containing Heterocycles: A New Entry for the Preparation of Tellurium Heterocycles

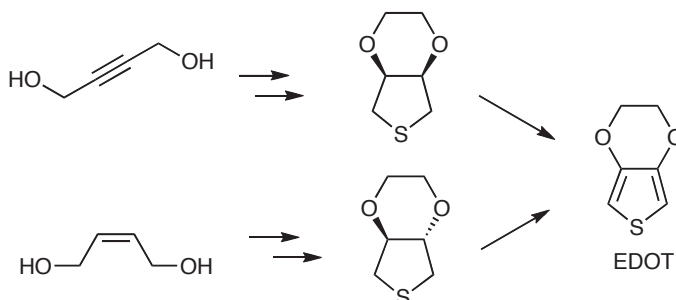
Haruki Sashida,* Mamoru Kaname, and Kazuo Ohyanagi



Tin-Tellurium Exchange Tin-Metal Exchange Tin-Containing Heterocycle Tellurium-Containing Heterocycle Tellurium Tetrachloride

449 Synthesis of 3,4-Ethylenedioxythiophene (EDOT) from (*Z*)-But-2-ene-1,4-diol or But-2-yne-1,4-diol

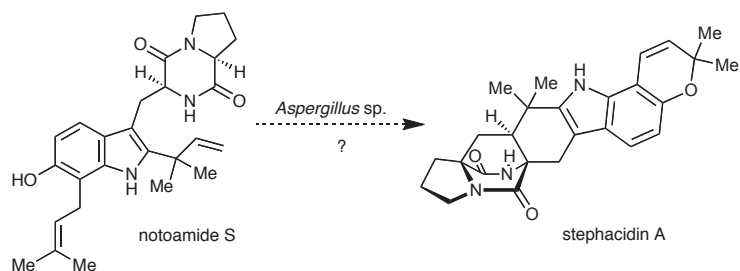
Iwao Hachiya, Tomohiro Matsumoto, Tatsuhiko Inagaki, Atsushi Takahashi, and Makoto Shimizu*



3,4-Ethylenedioxythiophene (EDOT) Ring-Closing Reaction Tetrahydrothiophen Dehydrogenation DDQ

461 Studies on the Biosynthesis of the Stephacidins and Notoamides. Total Synthesis of Notoamide S

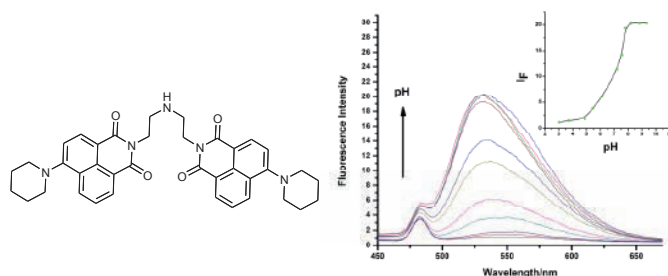
Timothy J. McAfoos, Shengying Li, Sachiko Tsukamoto, David H. Sherman, and Robert M. Williams*



Stephacidins Notoamide Prenylated Indole Alkaloid Biosynthesis Fungal Metabolite

473 Unexpected Fluorescent Behavior of a New pH Chemosensor Based upon Bis-4-piperidine-1,8-naphthalimide Linked by the Diethylenetriamine

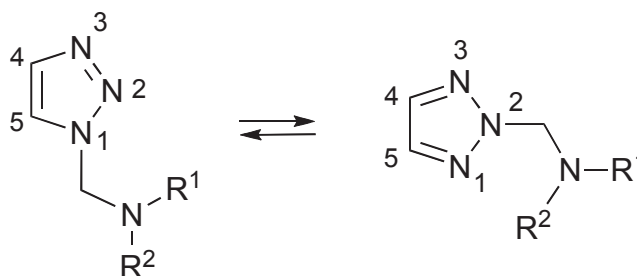
Hui Xu,* Huiling Dai, and Junqiang Ran



pH Fluorescent Chemosensor 1,8-Naphthalimide Bis-1,8-naphthalimide

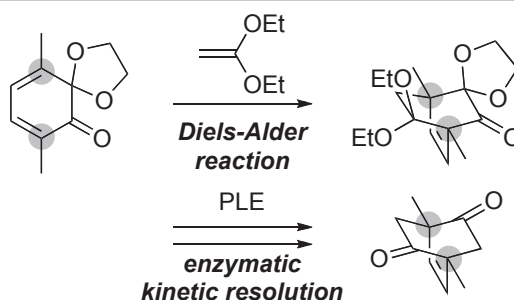
479 Relative Stabilities of 1- and 2-Substituted 1,2,3-Triazoles

Alan R. Katritzky,* Ana-Maria Buciumas, Ekaterina Todadze, Munawar Ali Munawar, and Levan Khelashvili


 1,2,3-Triazole *N*-Substituted Triazole Tautomerism NMR Isomerization

491 Asymmetric Syntheses of Highly Functionalized Bicyclo[2.2.2]octene Derivatives

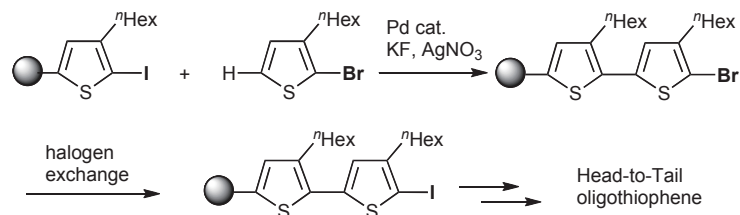
Masafumi Iwatsu, Daisuke Urabe, and Masayuki Inoue*



Total Synthesis Terpenoid Quaternary Carbon Diels-Alder Reaction Enzymatic Resolution

505 Iterative Extension of Thiophene Ring Leading to Head-to-Tail-Type Oligothiophenes *via* Stepwise CH Arylation and Halogen Exchange Sequence

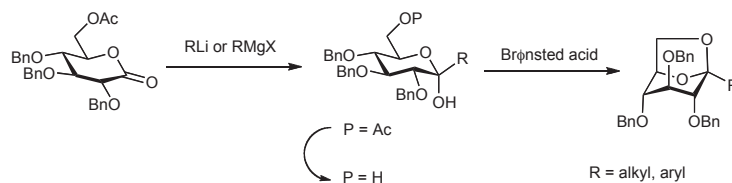
Shunsuke Tanba, Atsushi Sugie, Naoyuki Masuda, Daiki Monguchi, Nagatoshi Koumura, Kohjiro Hara, and Atsunori Mori*



Oligothiophene CH Arylation Halogen Exchange Palladium Catalyst Dye-Sensitized Organic Solar Cell

531 A Synthetic Approach to Anhydroketopyranoses Having a 6,8-Dioxabicyclo[3.2.1]octane Structure from Ketopyranoses

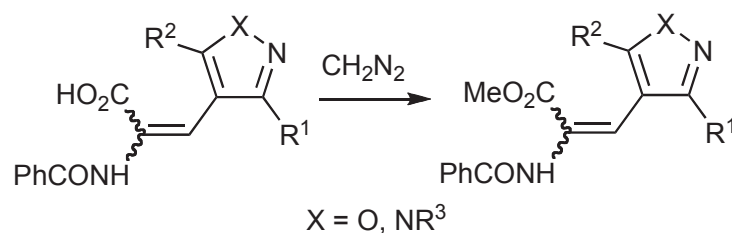
Takashi Yamanoi,* Kazuhide Matsumura, Sho Matsuda, and Yoshiki Oda



Anhydrosugar Anhydroketopyranose Ketose Nucleophilic Reaction Glycosylation

543 An Efficient Synthesis of Methyl Esters of Heterocyclic α,β -Didehydro- α -amino Acid Derivatives

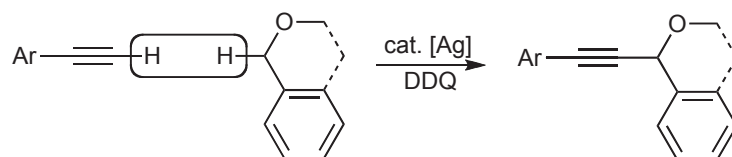
Franc Požgan, Klavdija Lukman, and Marijan Kočever*



Dehydroamino Acid Derivative Pyrazole Isoxazole Esterification Tautomerism

555 Silver-Catalyzed Oxidative Coupling of Terminal Aromatic Alkynes and Benzylic Ethers

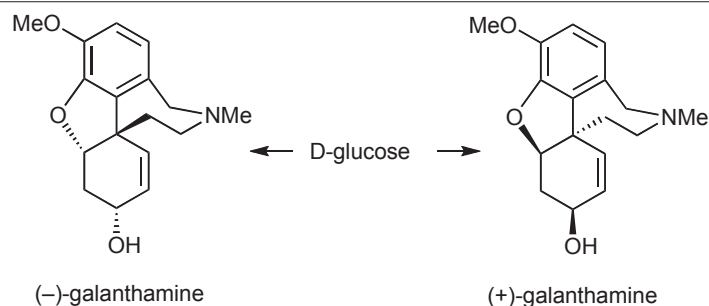
Camille A. Correia and Chao-Jun Li*



Radical Reaction Silver Alkyne Cross-Coupling Reaction Catalysis

563 Total Synthesis of (+)- and (-)-Galanthamine

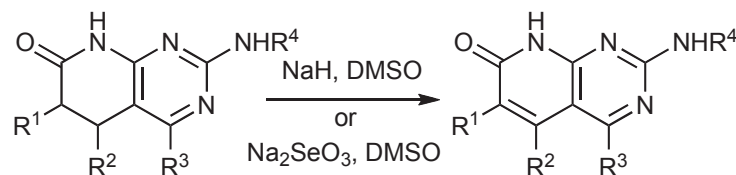
Tomoaki Kato, Hiroki Tanimoto, Hisako Yamada, and Noritaka Chida*



Eschenmoser-Claisen Rearrangement Johnson-Claisen Rearrangement Ferrier's Carbocyclization NBS-Mediated Cyclization

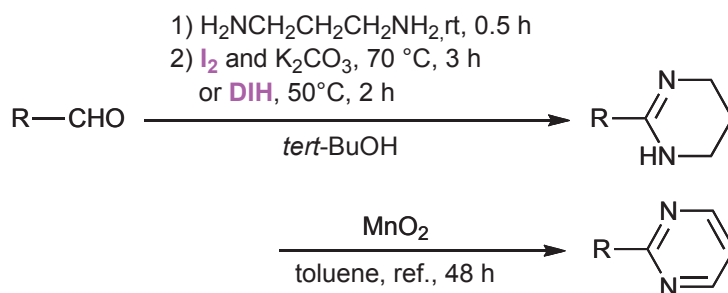
581 Dehydrogenation of 5,6-Dihydropyrido[3,2-d]pyrimidin-7(8H)-ones: A Convenient Last Step for a Synthesis of Pyrido[2,3-d]pyrimidin-7(8H)-ones

Irene Pérez-Pi, Xavier Berzosa, Iñaki Galve, Jordi Teixidó, and José I. Borrell*



Dehydrogenation 5,6-Dihydropyrido[2,3-d]pyrimidin-7(8H)-one Pyrido[2,3-d]pyrimidin-7(8H)-one Sodium Selenite Sodium Hydride

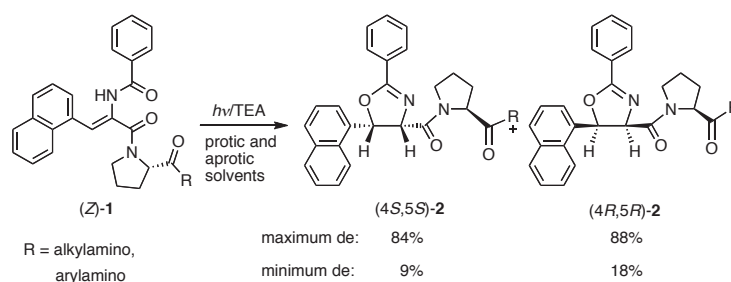
- 593 **Direct Oxidative Conversion of Aldehydes into 2-Substituted 1,4,5,6-Tetrahydropyrimidines Using Molecular Iodine or 1,3-Diiodo-5,5-dimethylhydantoin**
Shogo Takahashi and Hideo Togo*



1,4,5,6-Tetrahydropyrimidine 1,3-Propanediamine Aldehyde Pyrimidine Iodine 1,3-Diiodo-5,5-dimethylhydantoin

- 603 **Diastereoselective Cyclization Reactions of Chiral Proline Auxiliary-Substituted *N*-Benzoyl- α -dehydro(1-naphthyl)-alaninamide Derivatives *via* Photoinduced Electron Transfer**

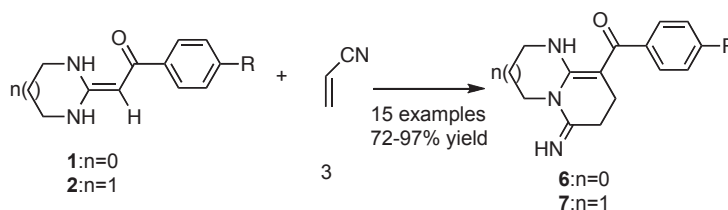
Yuhki Sato, Yuhta Haruyama, Tetsutaro Igarashi, and Tadimitsu Sakurai*



α -Dehydronaphthylalaninamide Chiral Proline Auxiliary Photoinduced Electron Transfer Diastereoselective Cyclization

- 619 **Reactions of Heterocyclic Ketene Aminals with Acrylonitrile: An Efficient Synthesis of Dihydropyridine-Fused 1,3-Diazaheterocycles**

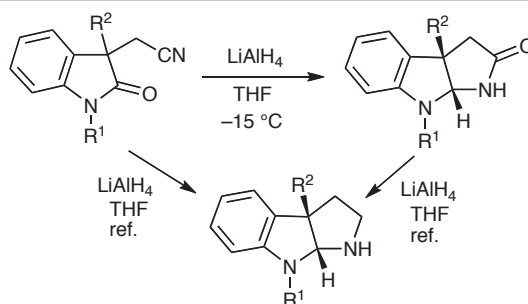
Hui Zhao, Ai-Qun Zeng, Wei-Lin Liao, Yue-Mei Jia, Li-Ben Wang, Zhi-Tang Huang,* and Chu-Yi Yu*



Dihydropyridine-Fused 1,3-Diazaheterocycle Heterocyclic Ketene Aminal (HKAs) Acrylonitrile Aza-Ene Reaction Synthesis

- 631 **Reductive Cyclization of 3-Cyanomethoxyindoles to Hexahydro-2-oxopyrrolo[2,3-*b*]indoles with Lithium Aluminum Hydride**

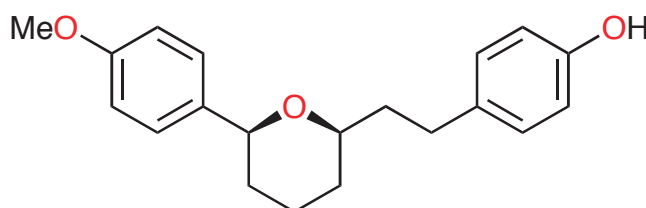
Masashi Shinada, Yoshiyuki Aihara, Satoshi Takiguchi, Naoko Ban, Kazuhiro Higuchi, and Tomomi Kawasaki*



Reduction Alkylation Iminium Steric Effect

- 641 **A Concise Total Synthesis of (\pm)-Centrolobine**

Haruhiko Fuwa,* Kenkichi Noto, and Makoto Sasaki

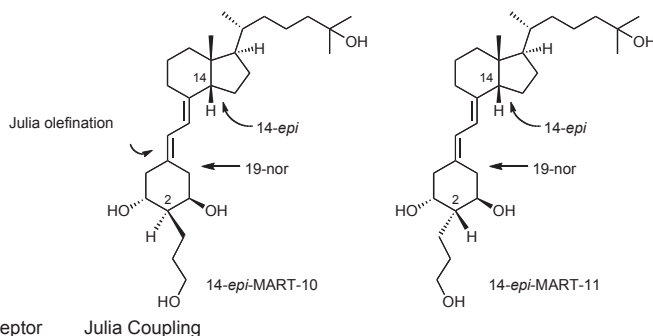


(\pm)-centrolobine

Domino Reaction Olefin Cross-Metathesis Intramolecular Oxa-Conjugate Addition Total Synthesis Oxacycle

649 Studies on the Synthesis and Metabolism of 14-*epi*-2 α -(3-Hydroxypropyl)-19-norvitamin D₃ and Its 2 β -Isomer

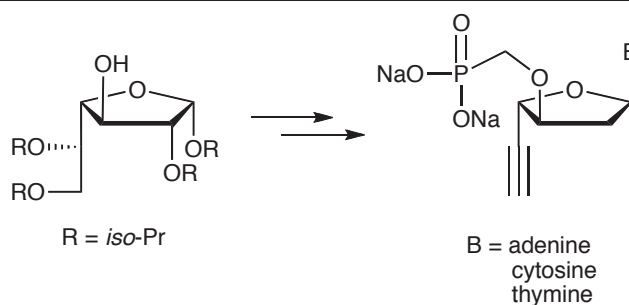
Atsushi Kittaka,* Hideki Hara, Kaori Yasuda, Masashi Takano, Midori A. Arai, Daisuke Sawada, Hiroshi Saito, Kazuya Takenouchi, Tai C. Chen, and Toshiyuki Sakaki*



Vitamin D Analog Metabolism Human CYP24A1 Vitamin D Receptor Julia Coupling

663 Synthesis and Anti-HIV Activity of New 3'-*O*-Phosphonomethyl Nucleosides

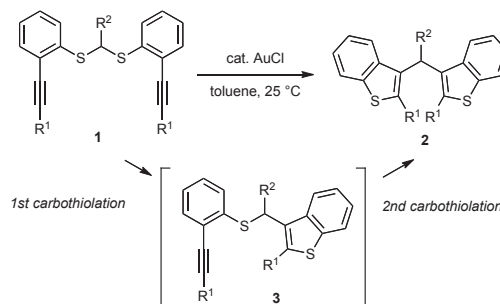
Michal Cesnek and Piet Herdewijn*



Phosphonate HIV PMDTT PMDTA Bestmann Modification

689 Synthesis of Bis(benzo[*b*]thiophenyl)methanes by Gold-Catalyzed Double Carbothiolation

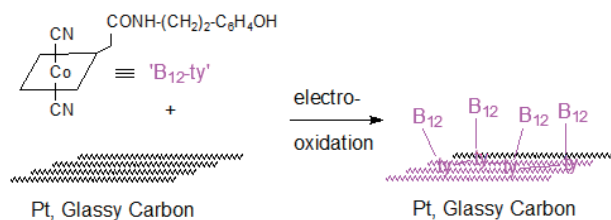
Itaru Nakamura,* Masashi Okamoto, Takuma Sato, and Masahiro Terada



Gold Catalyst Cyclization Benzothiophene Carbothiolation Alkyne

699 Immobilisation of the Vitamin B₁₂ Derivative B₁₂-Tyramide on Electrode Surfaces

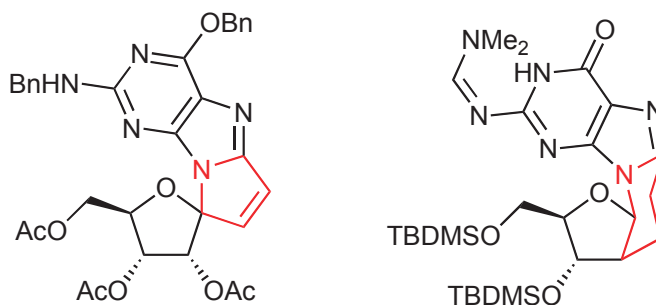
Luisa M. Abrantes, Jorge P. Correia, Ana M. Tenreiro, and Reinhart Keese*



Vitamin B₁₂ Derivative Electropolymerization Ellipsometry Catalysis Reduction

713 Synthesis of 8,1'-*Ethano* and 8,2'-*Ethano* Bridged Guanosine Derivatives Using Radical Cyclization

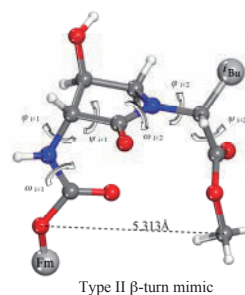
Julian Strohmeier, André Nadler, Daniel Heinrich, Ansgar Fitzner, and Ulf Diederichsen*



Conformation Nucleoside Nucleosidation Radical Cyclization Z-DNA

729 Crystal-State Structural Analysis of β -Hydroxy- γ -lactam Constrained Ser/Thr Peptidomimetics

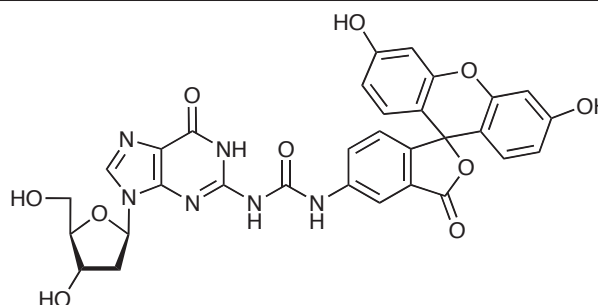
Daniel J. St-Cyr, Thierry Maris, and William D. Lubell*


 Type II β -turn mimic

 β -Hydroxy- α -amino- γ -lactam Freidinger-Weber Lactam X-Ray Crystallography β -Trun Conformation Constrained Dipeptide

739 Nucleotides Part: LXXVII New Types of Fluorescence Labeling of 2'-Deoxyguanosine

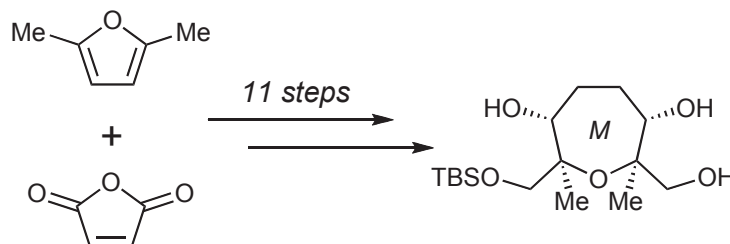
Thomas Maier and Wolfgang Pfeleiderer*



Fluorescein Mitsunobu Reaction Oligonucleotide NPE-Blocking Group

761 Stereoselective Synthesis of Caribbean Ciguatoxin M-Ring Using [2+2] Photocyclization

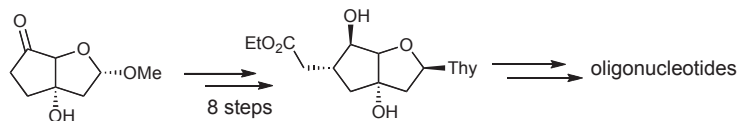
Shuji Yamashita,* Naoya Iijima, Takahiro Shida, and Masahiro Hiramata*



Caribbean Ciguatoxin Diels-Alder Reaction [2+2] Photocyclization Enzymatic Desymmetrization Stereoselective Reduction

775 Screening the Structural Space of Bicyclo-DNA: Synthesis and Properties of Bicyclo-DNA Functionalized at C(6')

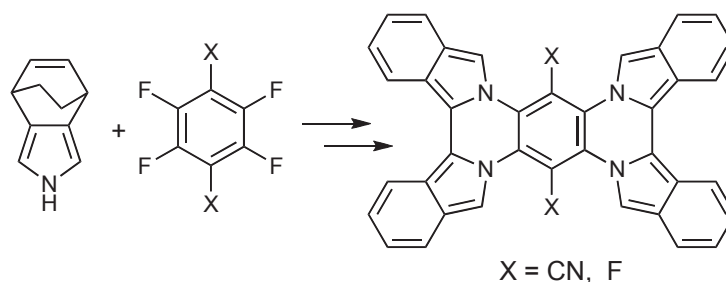
Samuel Luisier and Christian J. Leumann*



Oligonucleotide DNA RNA Antisense Nucleoside

791 Preparation of Highly Conjugated Oligoaza-PAHs Based on the Oxidative Intramolecular Coupling of Bicyclo[2.2.2]octadiene-Fused Pyrrole

Hidemitsu Uno,* Takahiro Takiue, Hiroki Uoyama, Tetsuo Okujima, Hiroko Yamada, and Go Masuda

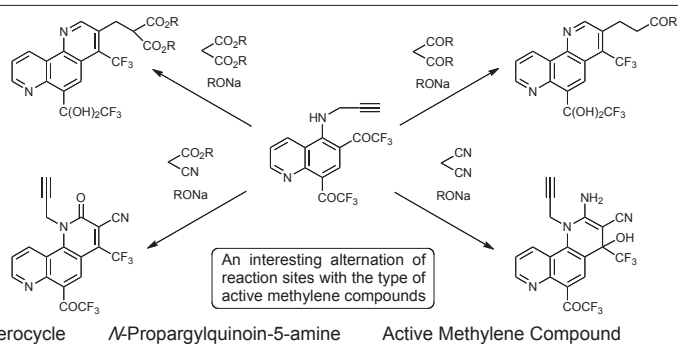


X = CN, F

 Isoindole Precursor Retro-Diels-Alder Reaction Oligoaza Polyaromatic Hydrocarbon S_NAr Reaction Intramolecular Oxidative Pyrrole Coupling

803 A Facile Synthesis of Fluorine-Containing 1,7-Phenanthrolines by the Cyclization of *N*-Propargyl-6,8-bis(trifluoroacetyl)quinolin-5-amine with Various Active Methylene Compounds

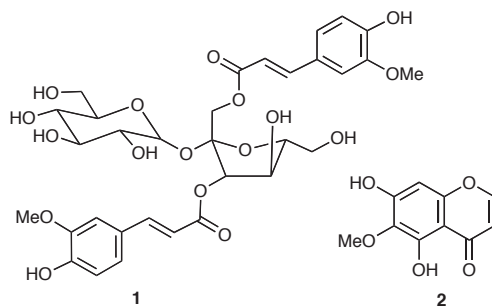
Dai Shibata, Ayaka Sakai, Mizuki Hatakenaka, Shohei Saikawa, Yasuhiro Kamitori, Maurice Médebielle, and Etsuji Okada*



1,7-Phenanthroline 1,7-Phenanthrolineone Fluorine-Containing Heterocycle *N*-Propargylquinolin-5-amine Active Methylene Compound

NOTES
813 New and Known Constituents from *Iris unguicularis* and Their Antioxidant Activity

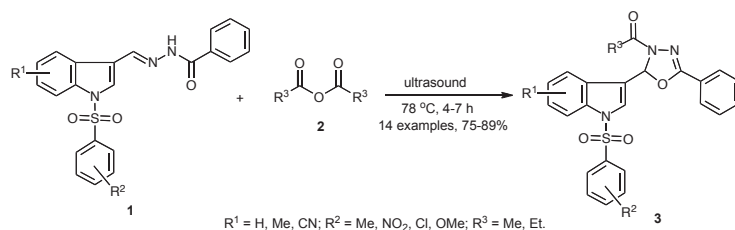
Atta-ur-Rahman,* Sumaira Hareem, M. Iqbal Choudhary, Bilge Sener, Ahmed Abbaskhan, Hina Siddiqui, Shazia Anjum, Ilkay Orhan, Ilhan Gurbuz, and Filiz Ayanoglu



Iris unguicularis Iridaceae 1,3-*O*-Diferuloylsucrose 5,7-Dihydroxy-6-methoxychromone DPPH Radical Scavenging Activity

825 An Efficiently Sonochemical Synthesis of 2-(*N*-Arylsulfonylindol-3-yl)-3-*N*-acyl-5-phenyl-1,3,4-oxadiazolines

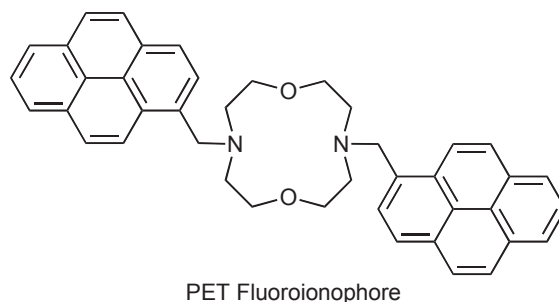
Hui Xu,* Zhi-ping Che, and Qin Wang



1,3,4-Oxadiazoline Ultrasonic Irradiation Synthesis

833 Synthesis and Complexation Behavior of 4,10-bis-(1-Pyrenylmethyl)-1,7-dioxo-4,10-diazacyclododecane

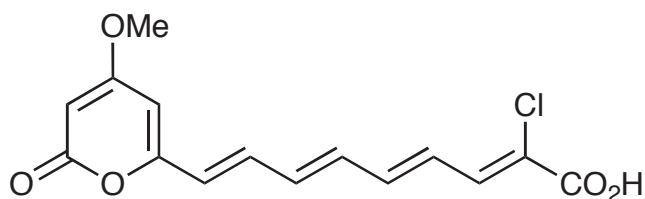
Kanji Kubo,* Hanae Komatsuzaki, Tadamitsu Sakurai, Tetsutaro Igarashi, Taisuke Matsumoto, Hajime Takahashi, and Haruko Takechi



Photoinduced Electron Transfer Diazacrown Ether Fluoroionophore Pyrene Zn^{2+} Selectivity

839 Dehydrofuligoic Acid, a New Yellow Pigment Isolated from the Myxomycete *Fuligo septica* f. *flava*

Akinori Shintani, Kazufumi Toume, Yukinori Yamamoto, and Masami Ishibashi*

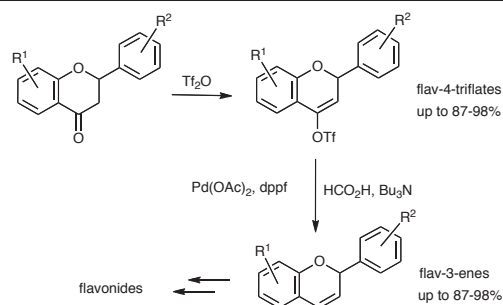


dehydrofuligoic acid

Myxomycete Pigment Pyrone

843 Efficient Transformation of Flav-3-enes Using Reductive Elimination of Flav-4-triflate

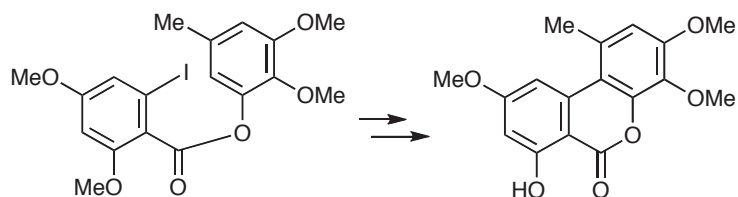
Yoshihito Kohari, Yukio Hoshino, Haruo Matsuyama, and Hiroto Nakano*



Flavonide Flav-3-ene Reductive Elimination

851 Synthesis of Graphislactone H

Hitoshi Abe,* Tomoko Fukumoto, Yoshikazu Horino, Takashi Harayama, and Yasuo Takeuchi*

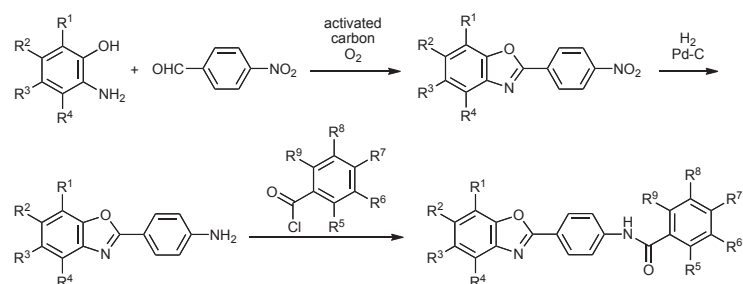


graphislactone H

 6#-Dibenzo[*b*,*d*]pyran-6-one Palladium Intramolecular Coupling Reaction Phenyl Benzoate Demethylation

857 Simple Three Steps Synthesis of Potential Medicine for Metabolic Syndrome

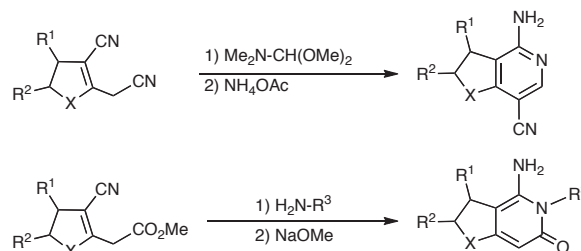
Kazuhiro Adachi, Kyosuke Michigami, and Masahiko Hayashi*



2-Arylbenzoxazole Activated Carbon Oxidative Aromatization Hydrogenation Amidation

867 A Convenient Approach to the Synthesis of Furo- and Thieno-[3,2-*c*]pyridine Derivatives

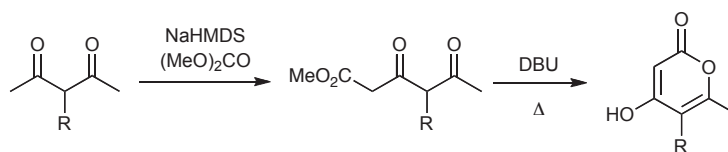
Hiroshi Maruoka,* Fumi Okabe, Keishi Yamasaki, Eiichi Masumoto, Toshihiro Fujioka, and Kenji Yamagata


 X = O, S; R¹ = H, Ph; R² = H, Ph, Me; R³ = H, CH₂Ph

 Furo[3,2-*c*]pyridine Thieno[3,2-*c*]pyridine Dihydrofuran Dihydrothiophene Heterobicycle

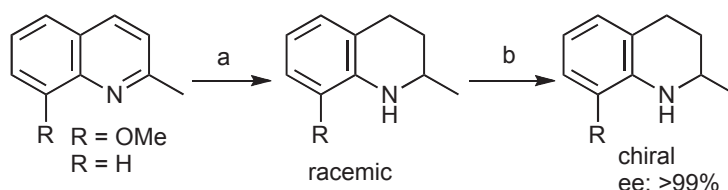
881 Concise and Efficient Synthesis of 4-Hydroxy-2-pyrones from Pentane-2,4-diones

Masahiro Yoshida,* Hironobu Takai, Chika Mitsuhashi, and Koza Shishido*


 2-Pyrone Pentane-2,4-dione β,δ -Diketo Ester Cyclization DBU

887 Convenient Synthesis of Optically Pure 8-Methoxy-2-methyl-1,2,3,4-tetrahydroquinoline and 2-Methyl-1,2,3,4-tetrahydroquinoline

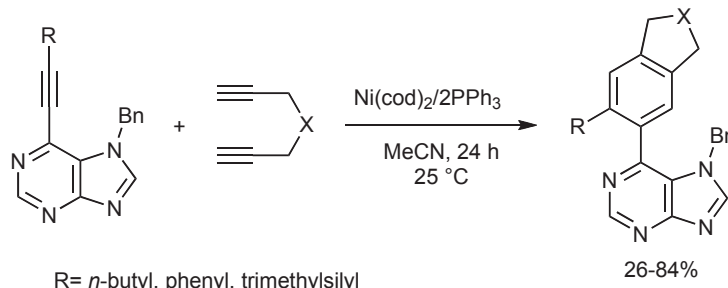
Jie Tang, Guo-Fang Jiang,* and Yong-Gui Zhou*


 a. $[\text{Ru}(p\text{-cymene})_2\text{Cl}]_2/\text{I}_2$, H_2 (600 psi), THF, rt
 b. (D)-DTTA or (D)-DMTA, acetone, 50 °C to rt

Chemical Resolution Hydrogenation Chiral Tetrahydroquinoline

895 [2+2+2]-Cocyclotrimerization of 6-Alkynyl-7-benzyl-purines with α,ω -Diynes

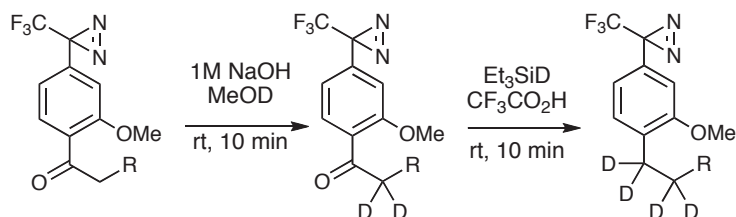
Stanislav Opekar, Pavel Turek, Radek Pohl, Blanka Klepetářová, Ivan Votruba, Michal Hocek,* and Martin Kötora*


 R= *n*-butyl, phenyl, trimethylsilyl

Cyclotrimerization Purine Alkyne Nickel Catalysis

909 Simple Deuterium Introduction at α -Position of Carbonyl in Diazirine Derivatives for Photoaffinity Labeling

Yuta Murai, Miho Takahashi, Yasuyuki Muto, Yasumaru Hatanaka, and Makoto Hashimoto*



Photoaffinity Labeling Diazirine Deuterium H/D Exchange Mass Spectrometry

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