

■ MEMORY OF DR. JOHN W. DALY

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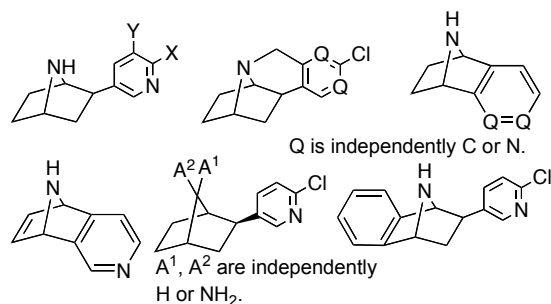
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Nirina R. Andriamaharavo*

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F. Ivy Carroll*



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Ngampong Kongkathip* and Boonsong Kongkathip

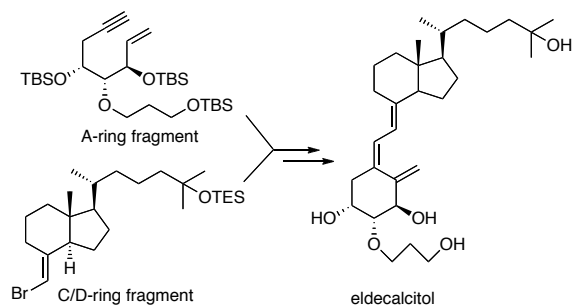


Clausena excavata Burm.f (Rutaceae)

Clausena excavata Coumarin Carbazole Alkaloid Limonoid Anti-HIV

- 145 **Synthesis of 1 α ,25-Dihydroxy-2 β -(3-hydroxypropoxy)-vitamin D₃ (Eldecalcitol) and Related Compounds by the Trost Convergent Methodology**

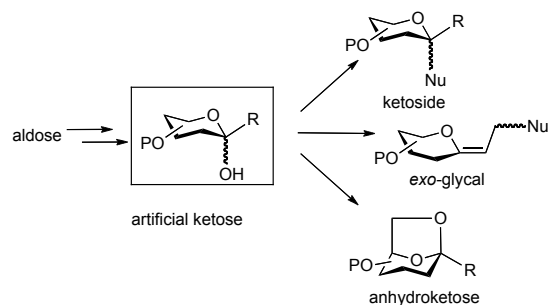
Noboru Kubodera* and Susumi Hatakeyama



Active Vitamin D₃ Analog Calcitriol 1 α ,25-Dihydroxy-2 β -(3-hydroxypropoxy)vitamin D₃ Eldecalcitol Trost Convergent Methodology

163 Reactions and Uses of Artificial Ketoses

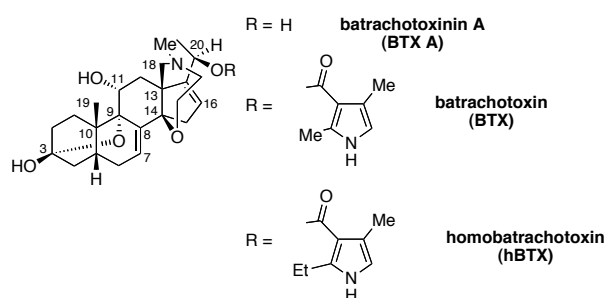
Takashi Yamanoi* and Sho Matsuda



Ketosidation Ketose Ketoside Glycosidation Nucleophilic Substitution

195 Discovery of Batrachotoxin: The Launch of the Frog Alkaloid Program at NIH

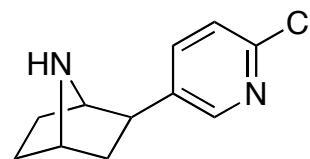
H. Martin Garraffo* and Thomas F. Spande



Dart-Poison Frog Alkaloid X-Ray Crystallography NMR Spectram Mass Spectrometry

207 Epibatidine: From Frog Alkaloid to Analgesic Clinical Candidates. A Testimonial to "True Grit"!

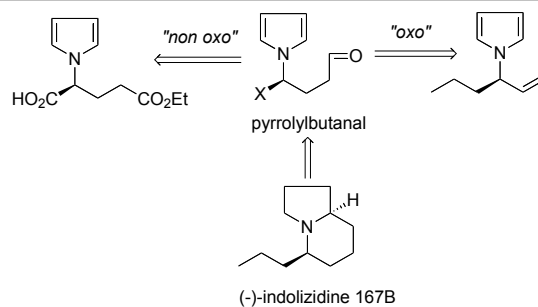
H. Martin Garraffo, Thomas F. Spande, and Michael Williams*


2 (-)-epibatidine

Poison Frog Alkaloid Epibatidine Nicotinic Agonist Straub-Tail

219 (-)-Indolizidine 167B via 4-Pyrrolylbutanals: Two Synthetic Methodologies at Comparison

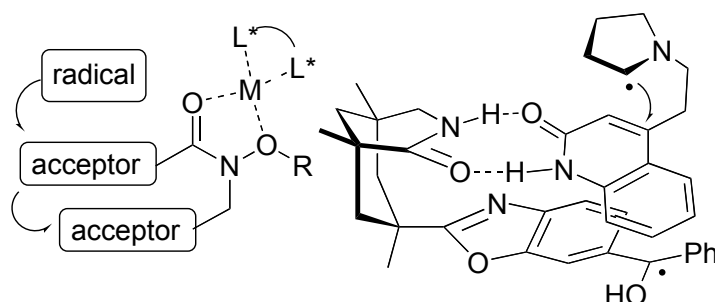
Roberta Settambolo*



Domino Process Dihydroindolizine Cyclization Hydroformylation Rhodium Catalyst

229 Enantioselective Radical Cyclization for the Synthesis of Cyclic Compounds

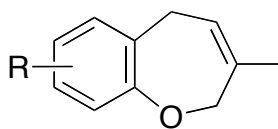
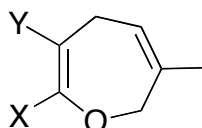
Eito Yoshioka, Shigeru Kohtani, and Hideto Miyabe*



Radical Cyclization Enantioselective Reaction Lewis Acid Organocatalyst

243 3-Methyl-2,5-dihydro-1-benzoxepins and 3-Methyl-2,5-dihydrooxepins

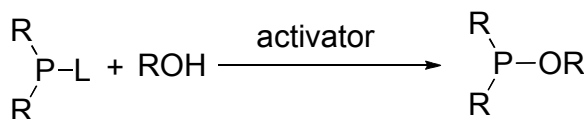
Seiji Yamaguchi*


3-methyl-2,5-dihydro-1-benzoxepin

3-methyl-2,5-dihydrooxepin

Benzoxepin Oxepin O-Heterocycle Seven-Membered Ring

265 Unconventional Activators in the Synthesis of Oligonucleotides and Their Structural Analogues

Wojciech Dabkowski and Jan Michalski*


 L = *N*-*iso*-Pr₂ (activators: Me₃SiCl, 2,4-dinitrophenol)

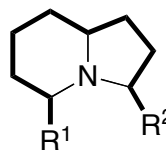
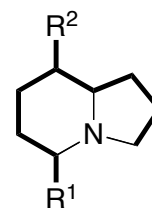
 L = 4-NO₂-Ar-O (activator: DBU)

 L = F (activator Me₃SiBr)

Phosphitylation Nucleoside Phosphoramidite Phosphorfluoridite Halogenosilane

277 Arthropod Alkaloids in Poison Frogs: A Review of the 'Dietary Hypothesis'

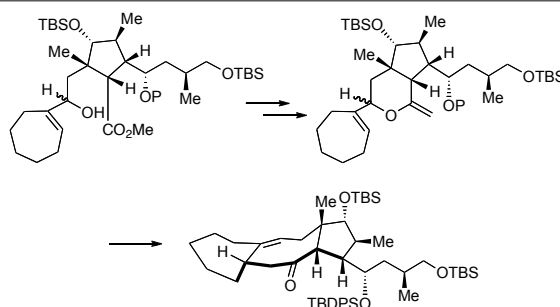
Ralph A. Saporito,* Thomas F. Spande, H. Martin Garraffo, and Maureen A. Donnelly


3,5-disubstituted indolizidine

5,8-disubstituted indolizidine

Alkaloid Frog Arthropod Biosynthesis Sequestration

COMMUNICATIONS
299 Claisen Ring Expansion Approach toward the CDEF Ring System of Lancifodilactone G

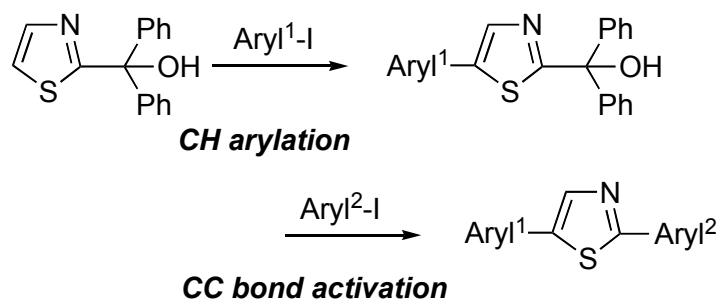
Leo A. Paquette* and Kwong Wah Lai



Nortriterpenoid Anti-HIV Activity [3,3] Sigmatropy Methylenation Cyclooctenone

303 Palladium-Catalyzed Arylation at C-H and C-C Bonds of Masked Thiazole Derivatives

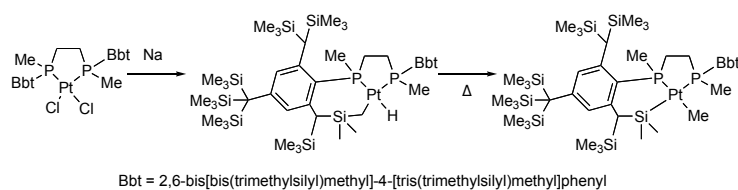
Hirotohi Furukawa, Suguru Matsumura, Atsushi Sugie, Daiki Monguchi, and Atsunori Mori*



Thiazole C-C Bond Activation CH Arylation Masked Group Palladium Catalyst

311 Intramolecular Si-C and C-H Bond Activation in a Platinum Complex Leading to the Formation of the Platinacycles

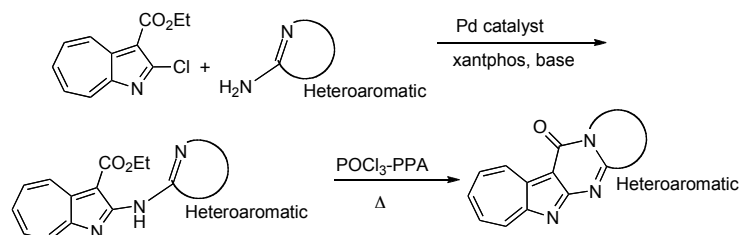
Norihiro Tokitoh,* Masahiro Kawai, Nobuhiro Takeda, and Takahiro Sasamori



Platinacycle Si-C Bond Activation C-H Bond Activation Pt(0) Complex Bulky Bisphosphine Ligand

319 Palladium-Catalyzed Heteroarylamination of Ethyl 2-Chloro-1-azaazulene-3-carboxylate and Annulation of Heteroarylamino-1-azaazulenes

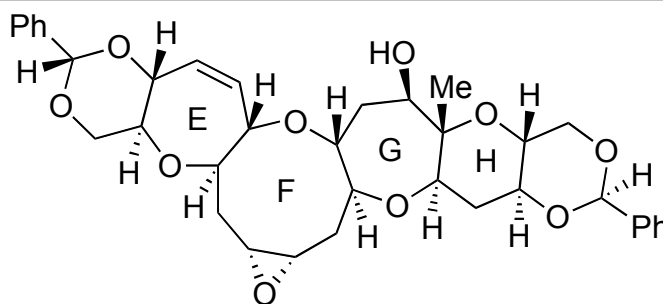
Kazuya Koizumi, Kunitaka Shimabara, Aya Takemoto, Shinya Yamazaki, Noriko Yamauchi, Hiroyuki Fujii, Masaki Kurosawa, Takeo Konakahara, and Noritaka Abe*



Palladium-Catalyzed Heteroarylamination Heteroarylamino-1-azaazulene Annulation Fused 1-Azaazulene Anticancer Activity

325 Design and Synthesis of a Conformationally Restricted Analogue of the EFGH-Ring System of Ciguatoxin

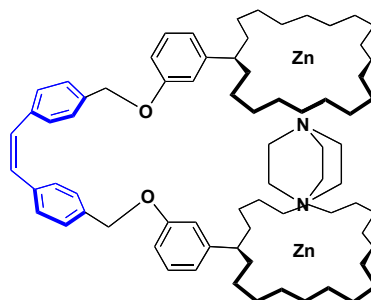
Nayoung Lee, Masayuki Inoue,* and Masahiro Hirama*



Conformation Dynamic NMR Spectrometry Medium-Sized Ring Epoxidation Natural Product

331 High Binding Affinity of DABCO with Porphyrin in a Porphyrin-*cis*-Stilbene-Porphyrin Triad

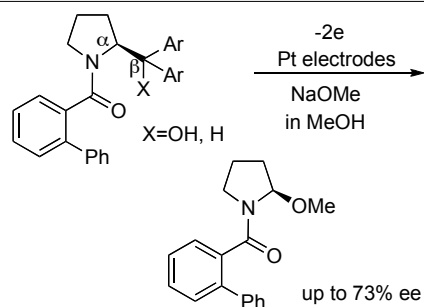
Md. Wahadoszamen, Takashi Yamamura, Atsuya Momotake, Yoshinobu Nishimura, and Tatsuo Arai*



Porphyrin Stilbene DABCO Host-Guest Chemistry Association Constant

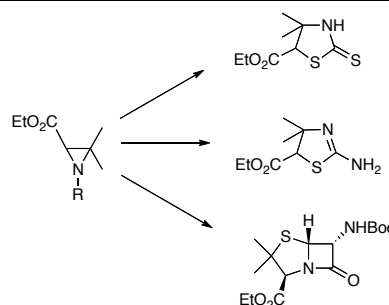
339 Memory of Chirality in the Electrochemical Oxidation of *N,O*-Phenylbenzoylated Prolinols

George Ng'aNg'a Wanyoike, Yoshihiro Matsumura, and Osamu Onomura*


 Electrochemical Oxidation Memory of Chirality C-C Bond Cleavage Chiral *N,O*-Acetal Prolinol

347 Regioselective Ring Expansion of 3,3-Dimethylaziridin-2-carboxylate and a Photochemical Entry to the Penem Nucleus

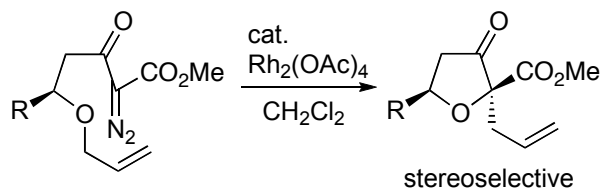
James D. White* and Takuya Furuta



Thiazolidine Hydantoin Thiazoline Thioaldehyde Penicillinate

353 Stereoselective Synthesis of 5-Substituted 2-Allyl-3-oxotetrahydrofuran-2-carboxylates Using Rhodium(II)-Catalyzed Oxonium Ylide Formation-[2,3] Shift

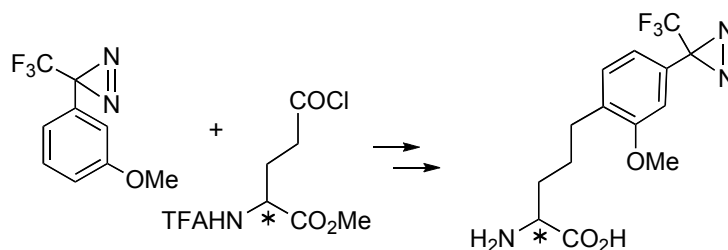
Takayuki Yakura,* Katsuaki Matsui, Kazumasa Matsuzaka, and Masayuki Yamashita



Dirhodium(II) Tetraacetate 5-Allyloxy-2-diazo-3-keto Ester Oxonium Ylide Formation-[2,3] Shift Heliespirone 3-Oxotetrahydrofuran

359 Effective Synthesis of Optically Active 3-Phenyl-3-(3-trifluoromethyl)diaziriny]bishomophenylalanine Derivatives

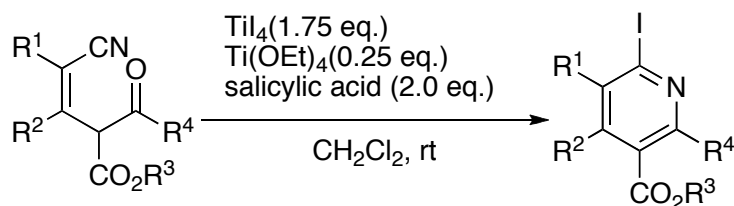
Yuta Murai, Yasumaru Hatanaka, Yuichi Kanaoka, and Makoto Hashimoto*



Diazirine Friedel-Crafts Reaction Amino Acid Photoaffinity Labeling Triflic Acid

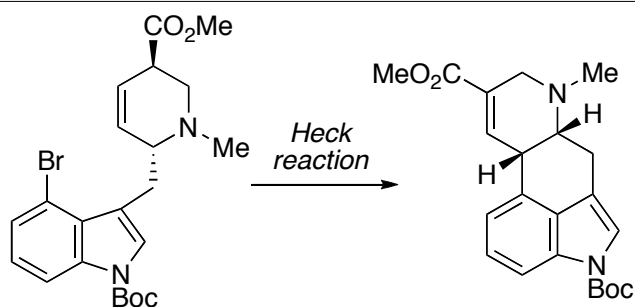
365 Titanium Tetraiodide Induced Cyclization of 2-(2-Cyanoalk-1-enyl)- β -keto Esters into 2-Iodopyridines

Iwao Hachiya, Yushi Minami, and Makoto Shimizu*


 Titanium Tetraiodide Cyclization Iodopyridine β -Keto Ester Alkynyl Ketone

373 Synthetic Studies toward (+)-Lysergic Acid: Construction of the Tetracyclic Ergoline Skeleton

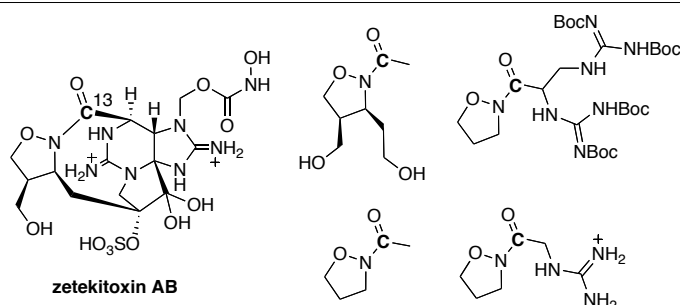
Tohru Inoue, Satoshi Yokoshima, and Tohru Fukuyama*



Alkaloid Indole Electrocyclic Reaction Heck Reaction Carbonylation

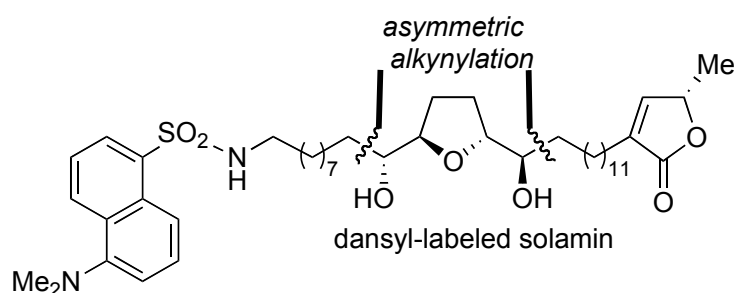
379 Syntheses of *N*-Acylisoxazolidine Derivatives, Related to a Partial Structure Found in Zetekitoxin AB, a Golden Frog Poison

Toshio Nishikawa,* Daisuke Urabe, and Minoru Isobe


 1,3-Dipolar Cycloaddition ¹³C NMR Spectrum Guanidine Nitrile Oxide *N*-Alkoxyamide

387 Convergent Synthesis of Fluorescence Labeled Solamin

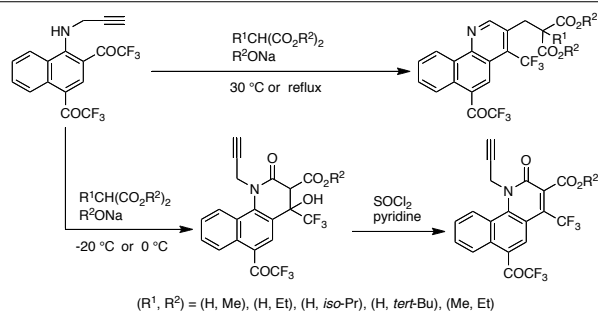
Naoto Kojima, Takekuni Morioka, Masahiro Yano, Yuki Suga, Naoyoshi Maezaki, and Tetsuaki Tanaka*



Annonaceous Acetogenin Fluorescent Labeled Analogue Convergent Synthesis Antitumor Activity Asymmetric Alkylation

395 An Efficient and Selective Synthetic Method for Fluorine-Containing Benzo[*h*]quinolines and 1-*H*-Benzo[*h*]quinolin-2-ones from *N*-Propargyl-2,4-bis(trifluoroacetyl)-1-naphthylamine

Etsuji Okada,* Dai Shibata, Norikado Tsukushi, Masato Dohura, and Maurice Médebielle


 ($R^1, R^2 = (H, Me), (H, Et), (H, iso-Pr), (H, tert-Bu), (Me, Et)$)

 Benzo[*h*]quinoline 1-*H*-Benzo[*h*]quinolin-2-one Fluorine Compound *N*-Propargyl-1-naphthylamine Dialkyl Malonate

403 Total Synthesis and the Confirmation of the Revised Structures of Botcinins A and B

Hiroki Fukui, Keisuke Tsuji, Yuma Umezaki, and Isamu Shiina*

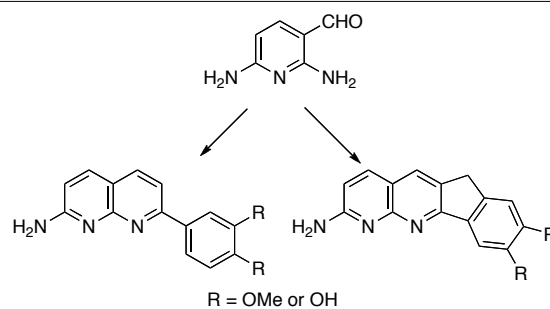


	R^1	R^2		R^1	R^2
botcinin A (1)	ⁿ Bu	Ac	←	3- <i>O</i> -acetyl-2-epibotcinolide (5)	ⁿ Bu Ac
botcinin B (2)	ⁿ Hex	Ac	←	3- <i>O</i> -acetyl-2-epihomobotcinolide (6)	ⁿ Hex Ac
botcinin E (3)	ⁿ Bu	H	←	2-epibotcinolide (7)	ⁿ Bu H
homobotcinin E (4)	ⁿ Hex	H	←	2-epihomobotcinolide (8)	ⁿ Hex H

Botcinin A Botcinin B Botcinolide Total Synthesis Structural Revision

411 Photo- and Electrochemical Properties of Novel 7-Substituted Naphthridine Derivatives

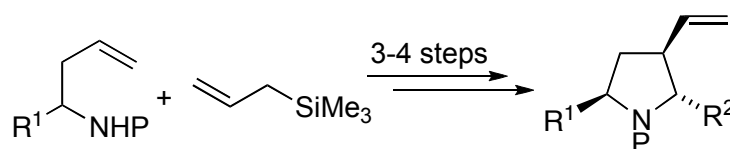
Junya Chiba,* Yasuhiro Doi, and Masahiko Inouye*



Naphthridine Derivative Photochemistry Electrochemistry Ring-Forming Reaction Hydrogen Bonding

417 Stereoselective Synthesis of 2,3,5-Trisubstituted Pyrrolidines Using Metathesis-Derived β -Aminoallylsilanes

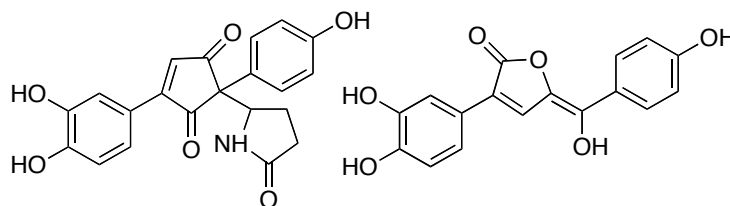
Alison D. McElhinney and Stephen P. Marsden*



Iminium Electrophilic Reaction Cyclization Homoallylamine Functionalised Allylsilane

423 Structure Studies of the Metabolites of *Paxillus involutus*

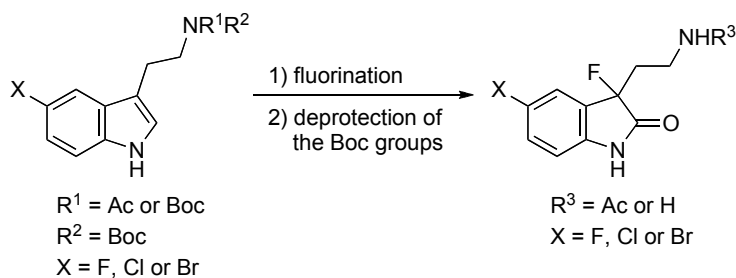
Lucyna Mikołajczyk and Wiesław Z. Antkowiak*



Mushroom Toxin Hemotoxic Activity Antioxidant Natural Pigment Radical Scavenger

427 Synthetic Studies on the Fluorinated Analogs for the Putative Oxindole-Type Metabolites of 5-Halotryptamines

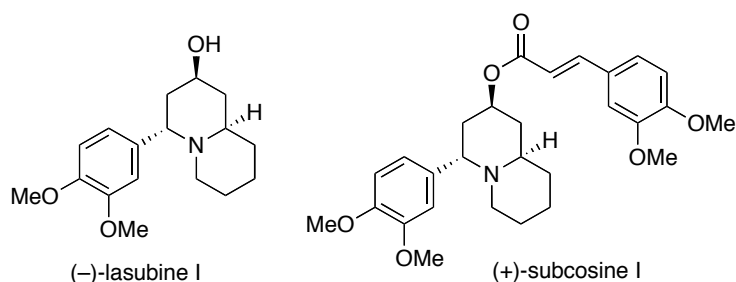
Tomoya Fujiwara, Takayuki Seki, Masaru Miura, and Yoshio Takeuchi*



Fluorooxindole Selectfluor™ Oxindole Hydroxyoxindole Tryptamine

433 New Entry to the Asymmetric Synthesis of (-)-Lasubine I and (+)-Subcosine I

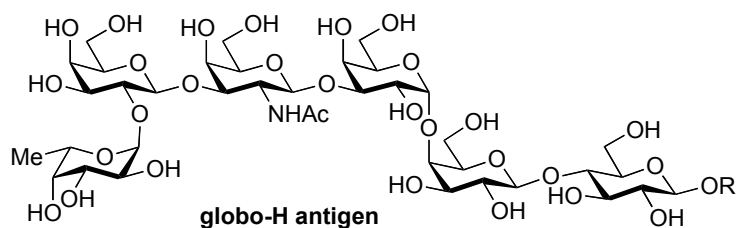
Naoki Yamazaki,* Masakazu Atobe, Chihiro Kibayashi, and Sakae Aoyagi*



Quinolizidine Alkaloid Ring-Closing Metathesis Bicyclic Lactone Intramolecular Michael Reaction Homoallylamine

441 Synthesis of Human Cancer Associated Globo-H (MBr1) Glycosylamino Acid: Some Mechanistic and Conformational Reinvestigations

Jianglong Zhu, Qian Wan, Guangbin Yang, Ouathek Ouerfelli, and Samuel J. Danishefsky*

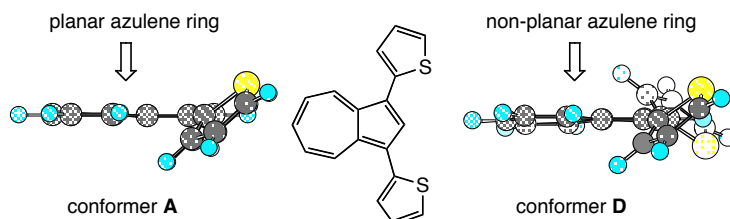


Carbohydrate Total Synthesis NMR Spectral Analysis Glycosylamino Acid Globo-H

■ PAPERS

451 Out-of-plane Deformation of the Azulene Ring along Its Short Molecular Axis in Crystal and Theoretical Structures of 1,3-Diheteroly- and 1,3-Diphenylazulenes

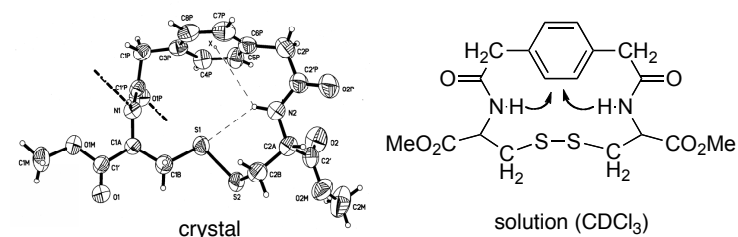
Akira Ohta, Shigeyasu Kuroda,* Nguyen Chung Thanh, Kouhei Terasawa, Kunihide Fujimori, Keita Nakajima, and Mitsunori Oda



Planarity Out-of-plane Deformation X-Ray Crystallographic Analysis Density Functional Theory (DFT) Calculation 1,3-Diarylazulene

471 Subtle Control in Solution and Crystal Structures with Weak Hydrogen Bonds: The Unusual Profile of Dimethyl 3,12-Dioxo-7,8-dithia-4,11-diazabicyclo[12.2.2]octadeca-1-(16),14,17-triene-5,10-dicarboxylate (TDA1)

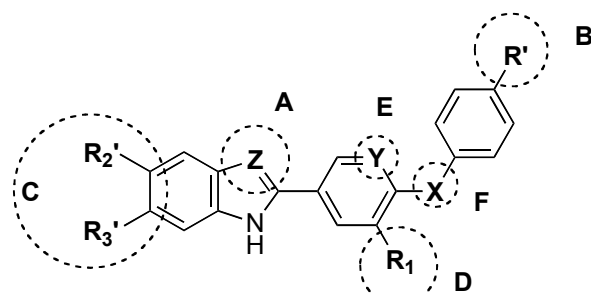
Isabella L. Karle,* Lulu Huang, Punna Venkateshwarlu, Akella V. S. Sarma, and Subramania Ranganathan*



Crystal Structure Solution Structure Theoretical Computations CH...O, NH...S and NH... π Weak Bonds Conformational Asymmetry

487 Synthesis and Biological Evaluation of Inhibitors of Botulinum Neurotoxin Metalloprotease

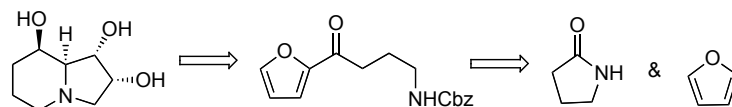
Chenbo Wang, Julia Widom, Filip Petronijevic, James C. Burnett, Jonathan E. Nuss, Sina Bavari, Rick Gussio, and Peter Wipf*



NSC 240898 BoNT Serotype A Metalloprotease Sonogashira Coupling Gold-Catalyzed Indole Formation Diaryl Ether

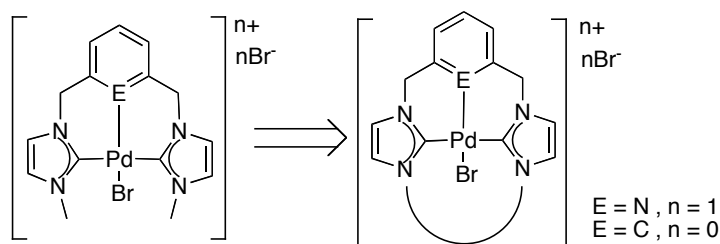
521 De Novo Asymmetric Approach to 8a-*epi*-Swainsonine

Jason A. Coral, Haibing Guo, Mingde Shan, and George A. O'Doherty*


 De Novo Asymmetric Synthesis Noyori Reduction Acylfuran Swainsonine 8a-*epi*-Swainsonine

531 Synthesis, Structure and Catalytic Activity of Macrocyclic NHC Pd Pincer Complexes

Noriaki Watarai, Hiroyasu Kawasaki, Isao Azumaya, Ryu Yamasaki, and Shinichi Saito*

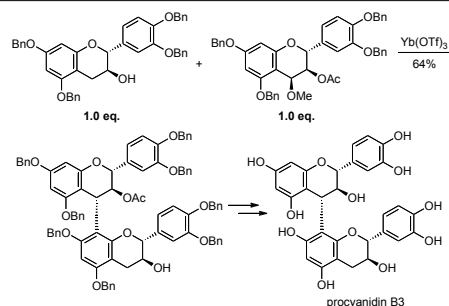


macrocyclic Pd pincer complexes

N-Heterocyclic Carbene Palladium Complex Macrocycle Chirality Palladium Catalyst

549 An Efficient Synthesis of Procyanidins Using Equimolar Condensation of Catechin and/or Epicatechin Catalyzed by Ytterbium Triflate

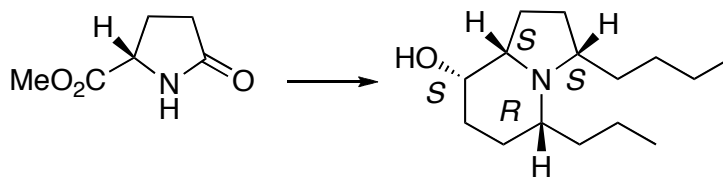
Yoshihiro Mohri, Masayoshi Sagehashi, Taiji Yamada, Yasunao Hattori, Keiji Morimura, Yasunori Hamazu, Tsunashi Kamo, Mitsuru Hirota, and Hidefumi Makabe*



Polyphenol Lewis Acid Rare Metal Antioxidant Condensation

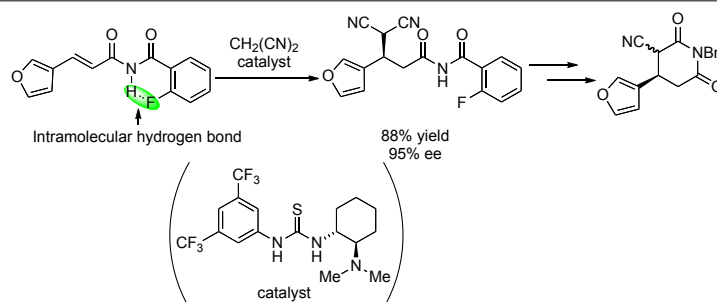
565 Synthesis, Determination of the Absolute Stereochemistry, and Evaluations at the Nicotinic Acetylcholine Receptors of a Hydroxyindolizidine Alkaloid from the Ant *Myrmecaria melanogaster*

Dejun Zhou, Naoki Toyooka,* Hideo Nemoto, Kaoru Yamaguchi, Hiroshi Tsuneki, Tsutomu Wada, Toshiyasu Sasaoka, Hideki Sakai, Yasuhiro Tezuka, Shigetoshi Kadota, Tappey H. Jones, H. Martin Garraffo, Thomas F. Spande, and John W. Daly


 Hydroxyindolizidine Alkaloid *Myrmecaria melanogaster* Neuronal Nicotinic Acetylcholine Receptor Martin's Protocol $\alpha 4\beta 2$ Nicotinic Receptor

573 Asymmetric Synthesis of 4-Substituted 2,6-Dioxopiperidine-3-carbonitrile by Using Thiourea-Catalyzed Asymmetric Michael Addition

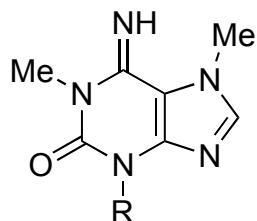
Tsubasa Inokuma, Yuuki Nagamoto, Shota Sakamoto, Hideto Miyabe, Kiyosei Takasu, and Yoshiji Takemoto*



Michael Reaction Asymmetric Organocatalysis Hydrogen Bond Bifunctional Thiourea Piperidine

583 Dioicine: A Novel Prenylated Purine Alkaloid from *Gymnocladus dioicus*

Richard W. Fitch,* Thomas F. Spande, H. Martin Garraffo, Rachael R. Chase, Mylaka A. Clinedinst, Derek A. Parkes, Richard Reed, Noel F. Whittaker, and John W. Daly



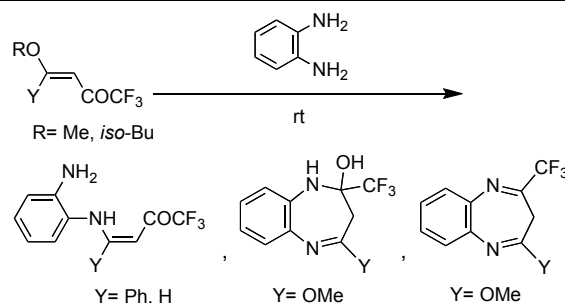
1 R = (E)-CH=CHC(Me)=CH₂

2 R = H

NMR Spectrometry Xanthine Caffeine Coffeetree Guanine

599 Reaction of β-Trifluoroacetylketene Acetals and β-Trifluoroacetylvinyl Ethers with 1,2-Phenylenediamines Accessing Fluorine-Containing Benzo[*b*][1,4]diazepine Derivatives: A Molecular Orbital Calculation Study

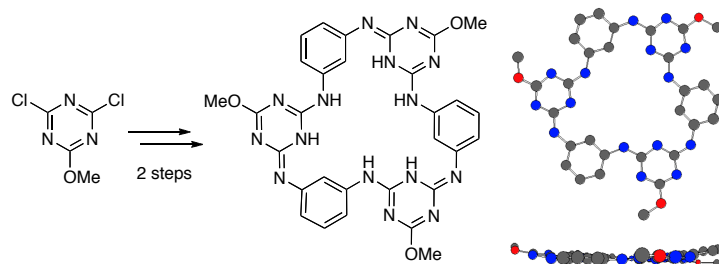
Norio Ota, Yasuhiro Kamitori,* Naoya Terai, Tsuneaki Sakata, and Etsuji Okada*



Dihydrobenzodiazepinole Benzodiazepine Dehydration Intramolecular HOMO-LUMO Interaction Molecular Orbital Calculation

609 Synthesis of Aza-Bridged Calix(4-methoxy)triazines toward Flattened π-Conjugated Macrocycles

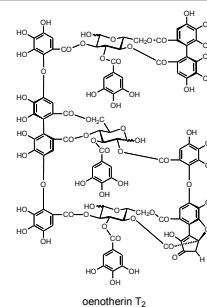
Hiroyuki Tanaka, Ayako Wada, Motoo Shiro, Kazuhito Hioki, Daiki Morisaki, and Munetaka Kunishima*



1,3,5-Triazine Calixarene π-Conjugated Macrocyclic Nucleophilic Aromatic Substitution

617 A New Trimeric Hydrolyzable Tannin, Oenotherin T₂, Isolated from Aerial Parts of *Oenothera tetraptera* Cav.

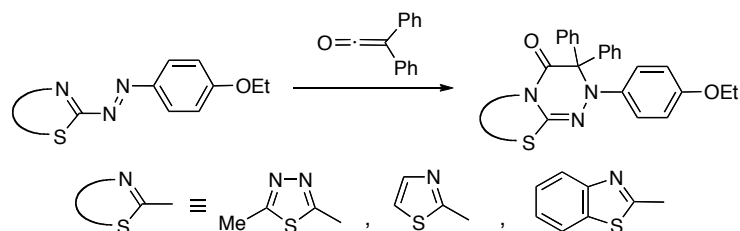
Shoko Taniguchi, Yoko Imayoshi, Takashi Yoshida, and Tsutomu Hatano*



Oenothera tetraptera Onagraceae Tannin Polyphenol Ellagitannin

627 Synthesis of 1,2,4-Triazin-5-ones through [4+2] Cycloaddition of 1,2,4-Triaza-1,3-dienes with Diphenylketene

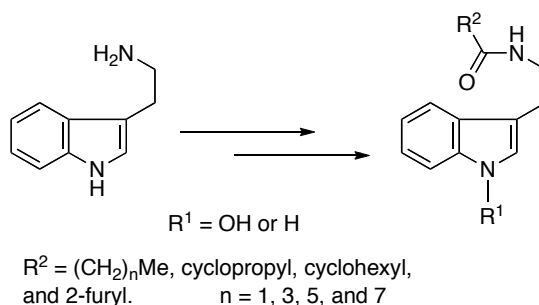
Tatsuya Nakai, Kyoko Fukutomi, Hiroaki Yanagisawa, Tomomi Kawasaki, and Masanori Sakamoto*



Triazole Thiazole Addition Cyclization X-Ray Crystal Structure Analysis

635 Synthesis of *N*₆-Acyltryptamines and Their 1-Hydroxytryptamine Derivatives as New α_2 -Blockers

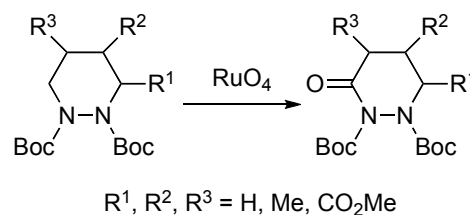
Koji Yamada, Yoshio Tanaka, and Masanori Somei*



α_2 -Blocker Electyle Dysfunction *N*/*N*-Acyltryptamine *N*/*N*-Acyl-1-hydroxytryptamine 1-Hydroxytryptamine

647 Ruthenium Tetroxide Oxidation of *N,N*-DiBoc-Hexahydropyridazines

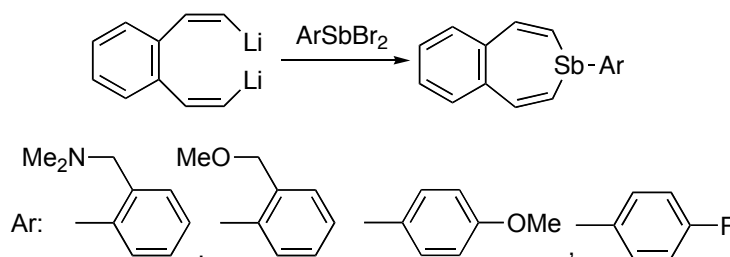
Mamoru Kaname, Shigeyuki Yoshifuji, and Haruki Sashida*



Ruthenium Tetroxide Oxidation Hexahydropyridazine Oxo-hexahydropyridazine Diels-Alder Reaction

659 Synthesis and Thermal Stability of 3-Substituted 3-Benzostibepines

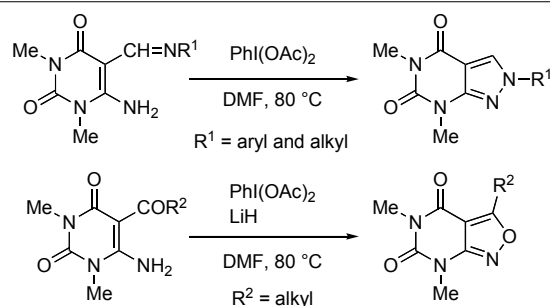
Shuji Yasuike, Masaaki Ikoma, Naoki Kakusawa, Takashi Tsuchiya, and Jyoji Kurita*



3-Substituted 3-Benzostibepine Thermal Stability Half-Life 1,6-Dilithium Compound Antimony

669 Iodobenzene Diacetate-Promoted N–N and N–O Bond Formation for Pyrazolo- and Isoxazolopyrimidine Syntheses

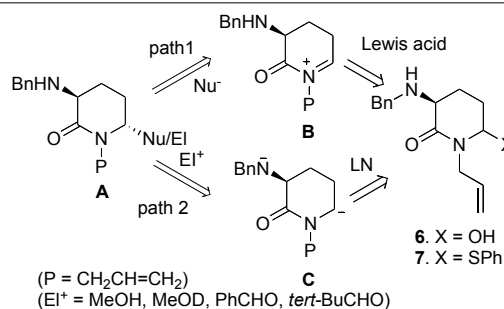
Yasunari Monguchi, Kazuyuki Hattori, Tomohiro Maegawa, Kosaku Hirota, and Hironao Sajiki*



N–N Bond Formation N–O Bond Formation Pyrazole Isoxazole Iodobenzene Diacetate

681 Facile Syntheses of Three Ahp-Type Building Blocks with Complementary Reactivity

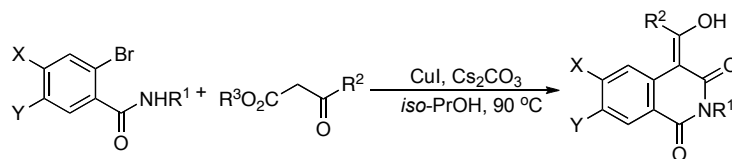
Wen Chen, Xiao Zheng, Yuan-Ping Ruan, and Pei-Qiang Huang*



2-Piperidone *N*,*O*-Acetal *N*-Acyliminium Ion Reductive Lithiation α -Hydroxyalkylation

695 Assembly of Substituted Homophthalimides *via* CuI-Catalyzed Coupling of 2-Bromobenzamides with β -Keto Ester

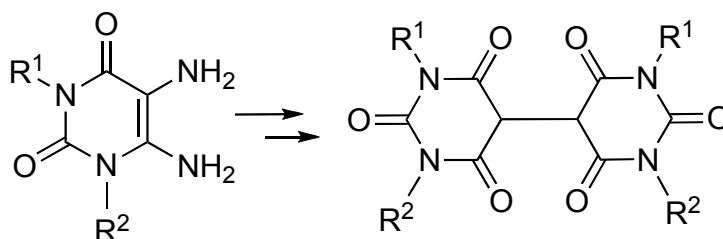
Hexiang Wang, Kun Gao, Yongwen Jiang, and Dawei Ma*



Cu(I) Catalyst Homophthalimide Cascade Process Coupling Reaction 2-Bromobenzamide

703 5,5'-Bipyridyl-2,4,6,2',4',6'-hexaone Derivatives (Hydurilic Acids): Syntheses, Mechanism of C-C-Bond Formation and Properties of the Dimeric Barbituric Acid Derivatives

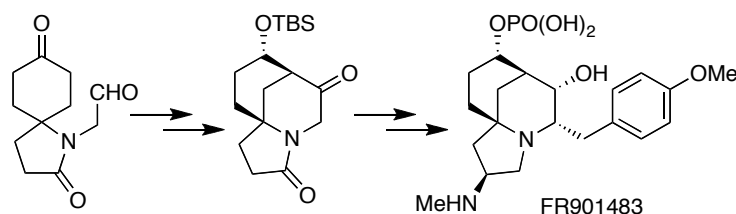
Christa E. Müller,* Carolin Roegler, and Jörg Hockemeyer



Hydurilic Acid Barbituric Acid Dimerization C-C Bond Formation Violic Acid

721 Stereocontrolled Total Synthesis of (\pm)-FR901483

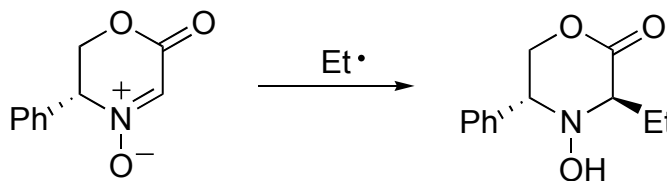
Shigeru Ieda, Yusuke Asoh, Teppei Fujimoto, Haruka Kitaoka, Toshiyuki Kan, and Tohru Fukuyama*



FR901483 Stereocontrolled Reaction Intramolecular Aldol Reaction One-Electron Reduction Tricyclic Skeleton

739 Intermolecular Carbon Radical Addition to Cyclic Nitron

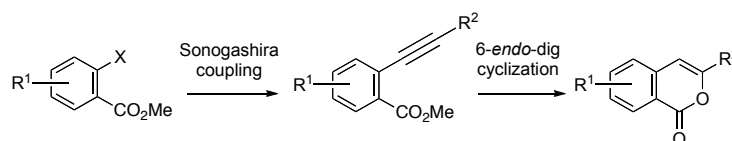
Masafumi Ueda, Hideto Miyabe, Nami Nonoguchi, Okiko Miyata, Osamu Tamura, and Takeaki Naito*



Radical Reaction Nitron Diastereoselective Addition Lewis Acid Aqueous Media

753 Synthetic Studies on Natural Isocoumarins and Isocarbostyryl Derivatives Having an Alkyl Substituent at the 3-Position: Total Synthesis of Scoparines A and B, and Ruprechstyryl

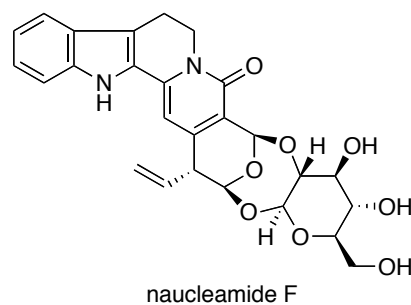
Marcellino Rudyanto, Koichi Kobayashi, and Toshio Honda*



Sonogashira Coupling 6-*endo*-dig Cyclization Scoparine Ruprechstyryl Isocoumarin

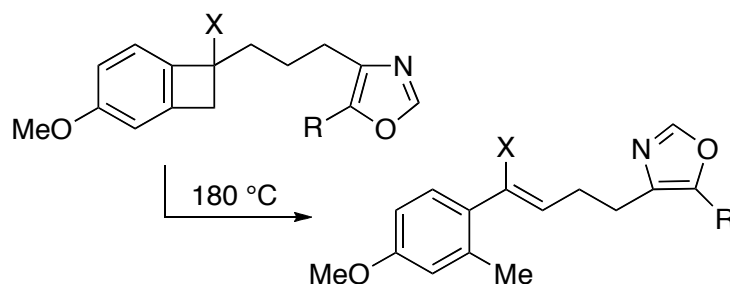
765 Naucleamide F, a New Monoterpene Indole Alkaloid from *Nauclea latifolia*

Yuka Kakuguchi, Haruaki Ishiyama, Takaaki Kubota, and Jun'ichi Kobayashi*


 Medicinal Plant *Nauclea latifolia* Monoterpene Indole Alkaloid

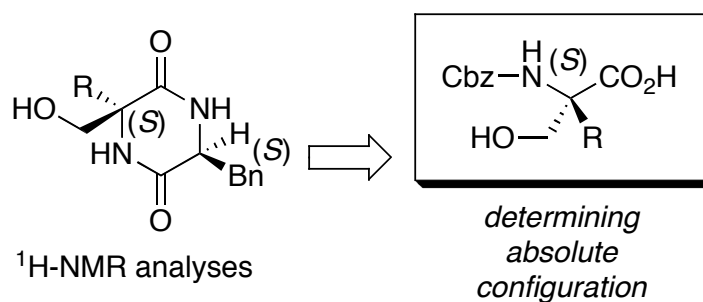
773 Studies toward Intramolecular Cycloaddition of α -Quinodimethane with an Oxazole Moiety

Yuji Matsuya,* Hongbo Qin, and Hideo Nemoto


 Benzocyclobutene α -Quinodimethane Cycloaddition Rearrangement Oxazole

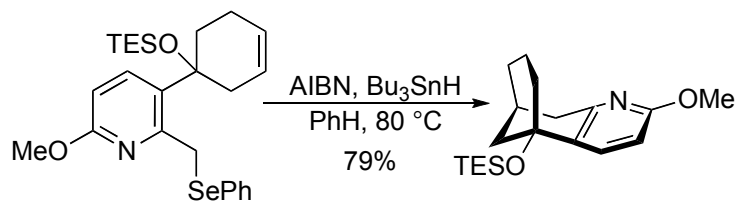
781 Use of Diketopiperazines for Determining Absolute Configurations of α -Substituted Serines by $^1\text{H-NMR}$ Spectroscopy

Shigeki Sano,* Michiyasu Nakao, Masanori Takeyasu, Syuji Kitaie, Yasuko Yoshioka, and Yoshimitsu Nagao


 Diketopiperazine Absolute Configuration α -Substituted Serine $^1\text{H-NMR}$ Analysis DKP Method

791 Synthesis of the Bicyclo[3.3.1]nonane Core of Huperzine A and Novel Pyridine-Fused Tricycles by Cyclisation of Pyridine-Based Radicals

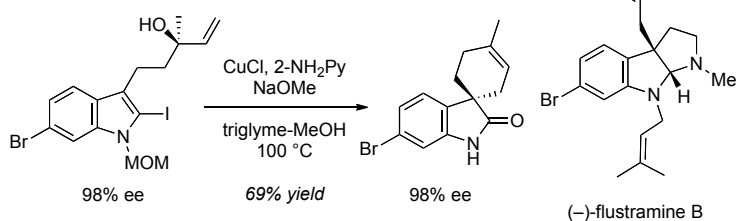
Jarrod Ward and Vittorio Caprio*



3-Pyridyl Radical (2-Pyridyl)methyl Radical Radical Cyclization Bicyclo[3.3.1]nonane Huperzine A

805 Total Synthesis of (-)-Flustramine B via One-Pot Intramolecular Ullmann Coupling and Claisen Rearrangement

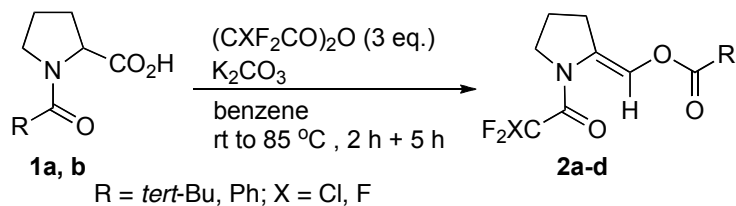
Tomohiro Hirano, Kanako Iwakiri, Hiroshi Miyamoto, Atsuo Nakazaki, and Susumu Kobayashi*



Total Synthesis Flustramine B Ullmann Reaction Claisen Rearrangement One-Pot Reaction

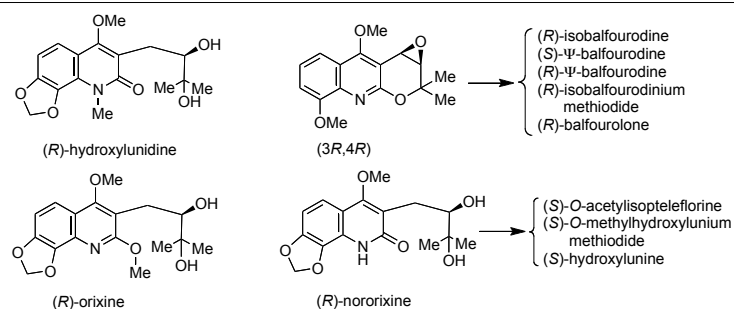
821 The Dakin-West Reaction of *N*-Acylprolines in the Presence of Inorganic Bases: Unexpected Formation of Enol Esters

Momoko Saeki, Yuri Hagimoto, Hidemitsu Uno, and Masami Kawase*


 Enol Ester *N*-Acylproline Dakin-West Reaction Trifluoroacetic Anhydride Chlorodifluoroacetic Anhydride

831 Syntheses and Absolute Configuration Assignments of Mono- and Di-substituted Chiral Quinoline Alkaloids Obtained by Asymmetric Oxidation

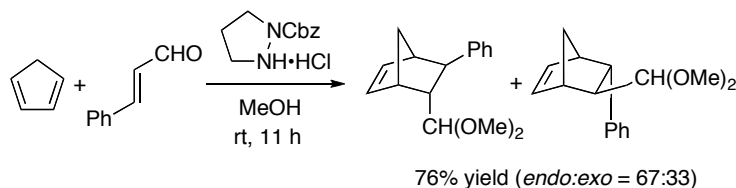
Stephen A. Barr, Derek R. Boyd,* Narain D. Sharma, and Pui L. Loke



Asymmetric Oxidation Chiral Epoxide Quinoline Alkaloid Synthesis Absolute Configuration Configuration Reassignment

851 Development of Cyclic Hydrazine and Hydrazide Type Organocatalyst — Mechanistic Aspects of Cyclic Hydrazine/Hydrazide-Catalyzed Diels-Alder Reactions

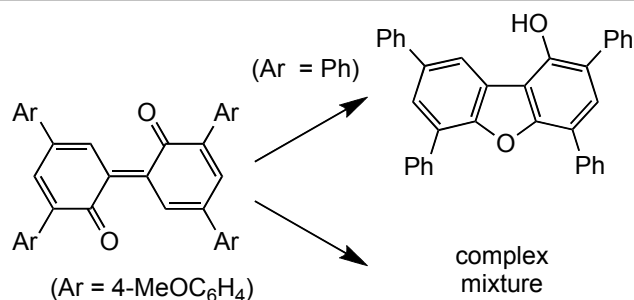
Ichiro Suzuki,* Ai Hirata, and Kei Takeda



Organocatalyst Diels-Alder Reaction Hydrazine Pyrazolidine Hydrazonium Ion

865 Effect of Aryl Substituents on Intramolecular Cyclization of 2,2'-Biphenylquinones

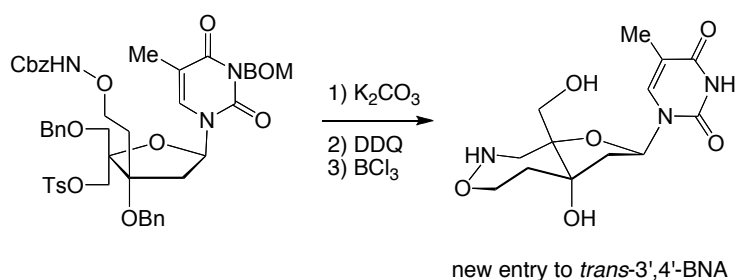
Naoto Hayashi,* Akifumi Kanda, Taku Kamoto, Hiroyuki Higuchi, and Takeyuki Akita*



2,2'-Biphenylquinone Substituent Effect Dibenzofuran

873 Synthesis of a Novel *trans*-3',4'-BNA Monomer Bearing a 4,8-Dioxa-5-azabicyclo[5.3.0]decane Skeleton

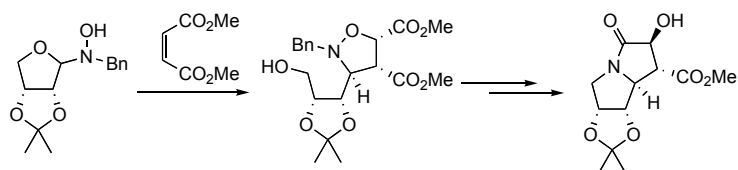
Tetsuya Kodama, Kensaku Sugaya, Takeshi Baba, Takeshi Imanishi, and Satoshi Obika*



BNA Nucleoside Nucleic Acid Conformational Restriction 4,8-Dioxa-5-azabicyclo[5.3.0]decane

883 *N*-Glycosylhydroxylamines as Masked Polyhydroxylated Chiral Nitrones in Cycloaddition Reactions: An Access to Pyrrolizidines

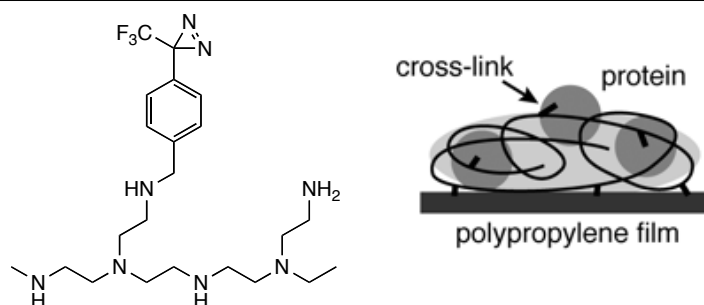
Marco Marradi, Massimo Corsi, Stefano Cicchi, Marco Bonanni, Francesca Cardona, and Andrea Goti*



Nitrogen Heterocycle Alkaloid Glycosidase Inhibitor Solvent Free Condition Carbohydrate

897 Hydrophilic Diazirine Polymer for One-Step Photo-Fabrication of Proteins on Polypropylene Surface

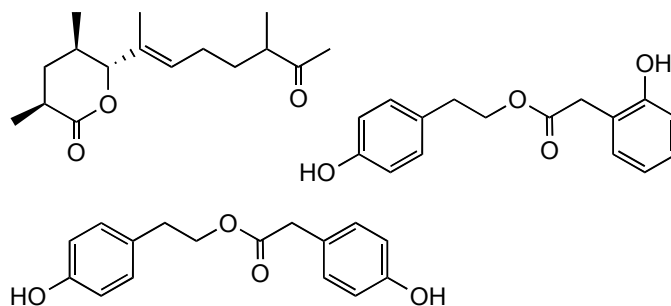
Takenori Tomohiro, Norie Tachi, Yusuke Azuma, and Yasumaru Hatanaka*



Photoactivatable Polymer Surface Fabrication Diazirine Cross-Link Protein Immobilization

909 Antineoplastic Agents. 575. The Fungus *Aspergillus phoenicis*

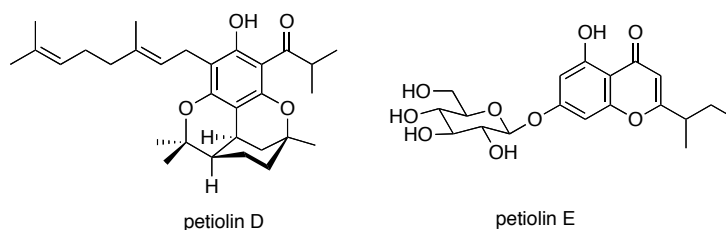
George R. Pettit,* Jiang Du, Robin K. Pettit, John C. Knight, and Dennis L. Doubek



Lactone Aromatic Alcohol Cancer Cell Inhibition Fungal Metabolite

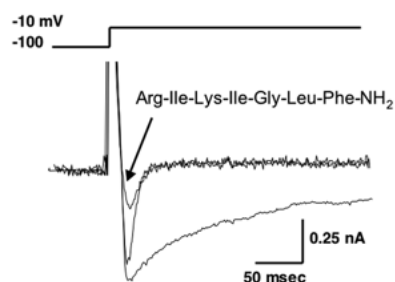
917 Petiolins D and E, Phloroglucinol Derivatives from *Hypericum pseudopetiotalum* var. *kiusianum*

Naonobu Tanaka, Takaaki Kubota, Haruaki Ishiyama, Yoshiki Kashiwada, Yoshihisa Takaishi, Junji Ito, Yuzuru Mikami, Motoo Shiro, and Jun'ichi Kobayashi*


Hypericum pseudopetiotalum var. *kiusianum* Phloroglucinol Derivative Chromone Glucoside Clusiaceae

925 A Synthetic Approach to Develop Peptide Inhibitors Selective for Brain-Type Sodium Channels on the Basis of Pompilidotoxin Structure

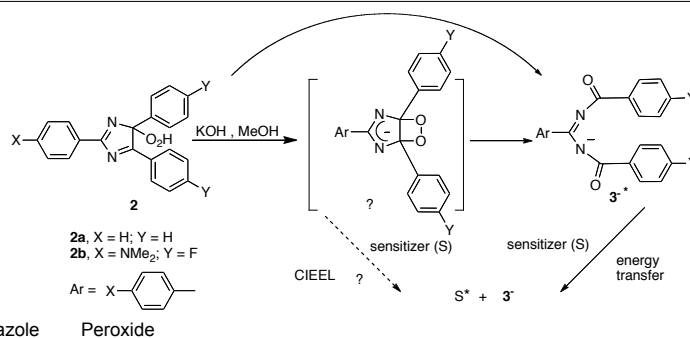
Sawana Yokote, Ritsuko Setoguchi, Eisuke Shimizu, Naoki Mishima, Kohichi Kawahara, Akihiko Kuniyasu, Tetsuya Shirasaki, Kazuo Takahama, Katsuhiko Konno, Nobufumi Kawai, Kaoru Yamaoka, Eiji Kinoshita, and Hitoshi Nakayama*



Pompilidotoxin Analog Peptide Inhibitor Brain-Type Sodium Channel Brain Ischemia Whole-Cell Clamp

1019 An Energy Transfer Chemiluminescent Reaction of Lophine Peroxides

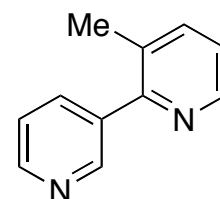
Masaru Kimura,* Kaoru Akaki, Yasunobu Mishima, Hiroyuki Araki, and Takeshi Fukai



Chemiluminescence Energy Transfer Electron Transfer Imidazole Peroxide

1025 Synthesis and Spectroscopic Comparison of the Eight Methyl-2,3'-bipyridyls and Identification of a Hoplonemertine Alkaloid as 3-Methyl-2,3'-bipyridyl

William R. Kem,* James Rocca, H. Martin Garraffo, Thomas F. Spande, John W. Daly, and Ferenc Soti



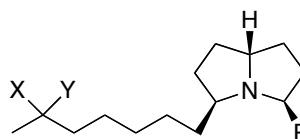
Chevron Hoplonemertine

3-Me-2,3'-bipyridyl

Pyridyl Alkaloid Bipyridyl Nemertine Marine Natural Product Bipyridyl Synthesis

1043 Catalytic Asymmetric Synthesis of Both Enantiomers of Pyrrolizidines 223H', 239K', 265H', and 267H' Found in Madagascan Frogs (*Mantella*) and Their Affinities for Nicotinic Acetylcholine Receptor

Yukako Saito, Seiki Takahashi, Nehad Azer, Amira T. Eldefrawi, Mohyee E. Eldefrawi, and Hiroki Takahata*

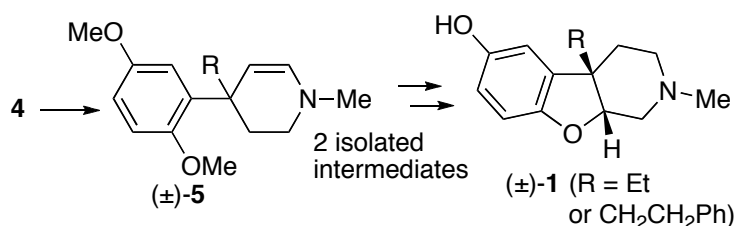


- 1** R = Me; X = Y = H pyrrolizidine 223H'
2 R = Me; X or Y = OH; Y or X = H pyrrolizidine 239K'
3 R = *n*-Pr; X-Y = O pyrrolizidine 265H'
4 R = *n*-Pr; X or Y = OH; Y or X = H pyrrolizidine 267H'

Catalytic Asymmetric Synthesis Pyrrolizidine Madagascan Frog Affinity for Nicotinic Acetylcholine Receptor Both Enantiomers

1061 Probes for Narcotic Receptor Mediated Phenomena. 38. An Expedient Synthesis of *rac-cis*-4a-Ethyl-2-methyl-1,2,3,4,4a,9a-hexahydrobenzofuro[2,3-*c*]pyridin-6-ol and *rac-cis*-2-Methyl-4a-phenethyl-1,2,3,4,4a,9a-hexahydrobenzofuro[2,3-*c*]pyridin-6-ol

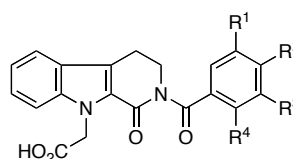
Malliga R. Iyer, Jeffrey R. Deschamps, Arthur E. Jacobson, and Kenner C. Rice*


cis-Benzofuropyrindin-6-ol and Analogue Synthesis Structurally Rigid Compound C-4a Phenethyl Analogue X-Ray Crystallographic Structure

■ NOTES

1073 Design, Synthesis, and Biological Effect of (1-Oxo-1,2,3,4-tetrahydro-β-carbolin-9-yl)acetic Acids as Inhibitor of Aldose Reductase 2

Naoki Toyooka,* Daisuke Takeda, Yuka Minoshima, Atsushi Kato, and Isao Adachi

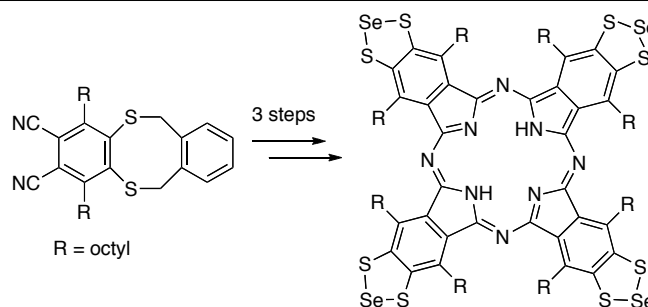


4a: R ¹ , R ³ , R ⁴ = H; R ² = F	IC ₅₀ for ALR2 (21.7 μM)
4b: R ¹ , R ³ , R ⁴ = H; R ² = Br	IC ₅₀ for ALR2 (34.6 μM)
4c: R ¹ , R ³ , R ⁴ = H; R ² = OMe	IC ₅₀ for ALR2 (35.8 μM)
4d: R ¹ , R ³ = H; R ² , R ⁴ = F	IC ₅₀ for ALR2 (45.3 μM)
4e: R ¹ , R ³ = F; R ² , R ⁴ = H	IC ₅₀ for ALR2 (34.5 μM)

Polyol Pathway Aldose Reductase 2 Rhetsinine 1-Oxo-1,2,3,4-tetrahydro-β-carbolin-9-ylacetic Acid Aldehyde Dehydrogenase

1081 Preparation and Electrochemical and Optical Properties of Tetrakis(dithiaselenolo)phthalocyanine

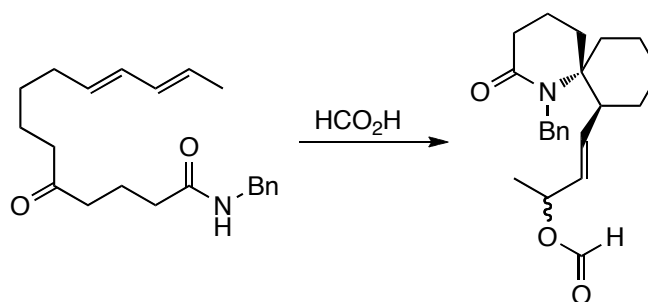
Takeshi Kimura,* Toshiharu Namauo, Akio Yamakawa, and Yutaka Takaguchi



Phthalocyanine Dithiaselenole Ring Protonation UV-Vis Spectra NMR Spectra

1087 Spirocyclization of Six-Membered Cyclic N-Acyliminium Ions with a Conjugated Diene

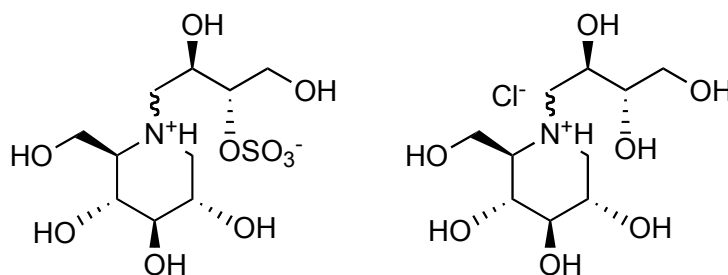
Hideki Abe, Yoshinori Muramatsu, Kazuhiro Watanabe, Sakae Aoyagi,* Chihiro Kibayashi, and Tadashi Katoh*



Spirocyclization N-Acyliminium Ion Conjugated Diene Formic Acid Endocyclic Amide Carbonyl Group

1093 Syntheses and Evaluation as Glycosidase Inhibitor of 1,5-Dideoxy-1,5-imino-D-glucitol Analogs of Salacinol, a Potent α-Glucosidase Inhibitor Isolated from Ayurvedic Medicine, *Salacia reticulata*

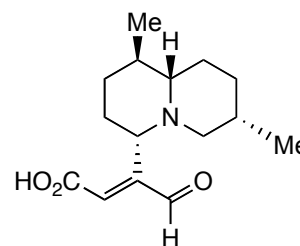
Genzoh Tanabe, Takanori Hatanaka, Toshie Minematsu, Hisashi Matsuda, Masayuki Yoshikawa, and Osamu Muraoka*



Salacinol Deoxynojirimycin N-Alkylated 1,5-Dideoxy-1,5-imino-D-glucitol Ammonium Sulfate Inner Salt α-Glucosidase Inhibitor

1101 Nupharic Acid, a New Sesquiterpene Alkaloid from *Nuphar japonicum*

Noriyuki Kogure, Akiko Nozoe, Mariko Kitajima, and Hiromitsu Takayama*

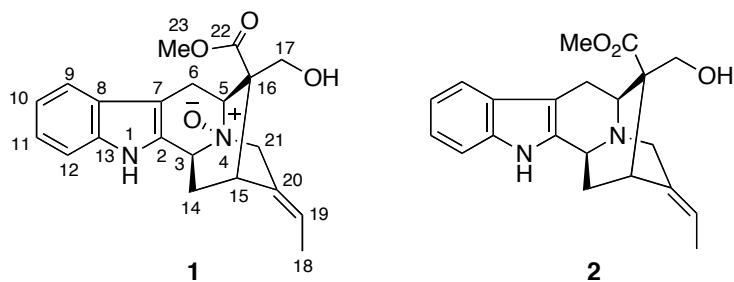


nupharic acid

Nuphar japonicum Alkaloid Nupharic Acid Sesquiterpene Structure Elucidation

1107 Indole Alkaloids from the Leaves of *Alstonia scholaris*

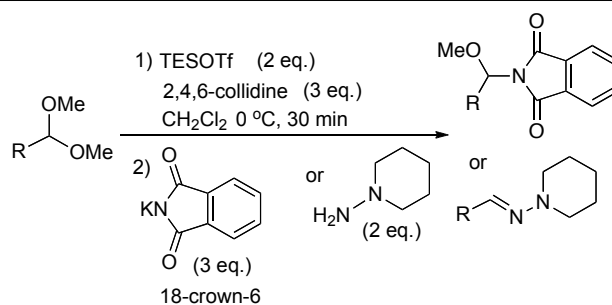
Yusuke Hirasawa, Saori Miyama, Nobuo Kawahara,
Yukihiro Goda, Abdul Rahman, Wiwied Ekasari,
Aty Widyawaruyanti, Gunawan Indrayanto,
Noor Cholies Zaini, and Hiroshi Morita*



Alstonia scholaris Akuammidine-*N*-oxide Akuammidine Antiplasmodial Activity

1113 Organic Chemistry Using Weakly Electrophilic Salts:
The Reaction with Nitrogen Nucleophiles

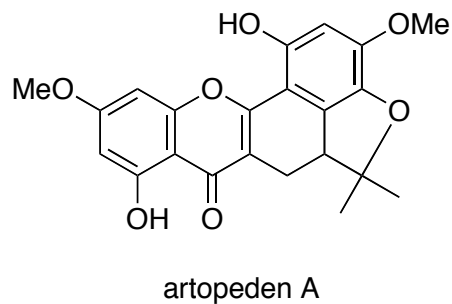
Hirofumi Fujioka,* Ozora Kubo, Kento Senami,
Kazuhisa Okamoto, Takashi Okitsu, and
Yasuyuki Kita*



N,O-Acetal Hydrazone Chemoselective Reaction Weakly Basic Condition Acid-Labile Functional Group

1121 Artopeden A, a New Antiplasmodial Isoprenylated Flavone
from *Artocarpus champeden*

Tutik Sri Wahyuni, Wiwied Ekasari, Aty Widyawaruyanti,
Yusuke Hirasawa, Hiroshi Morita,* and Noor Cholies Zaini*



Artocarpus champeden Artopeden A Isoprenylated Flavone Antiplasmodial Activity

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