■ PREFACE

■ CURRICULUM VITAE

■ SUMMARY

■ PUBLICATIONS

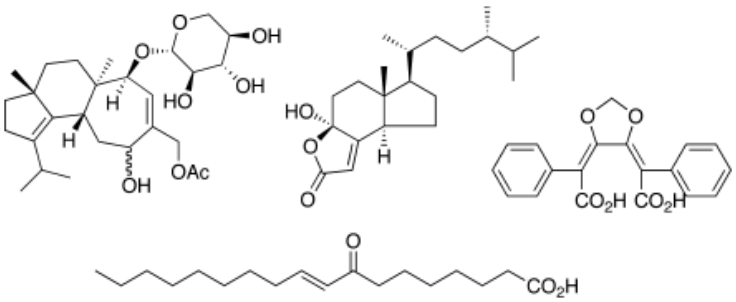
21 **Publications: Yoshito Kishi**

Yoshito Kishi*

■ REVIEWS

45 **Bioactive Compounds from Mushrooms**

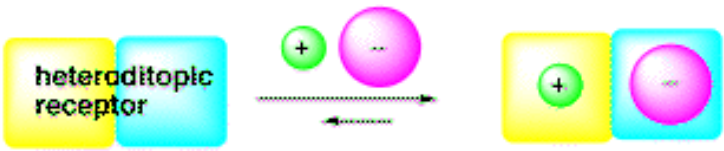
Hirokazu Kawagishi* and Cun Zhuang



Mushroom Anti-Dementia Anti-MRSA Osteoclast-Forming Suppressing Gastrointestinal Toxin

53 **Heteroditopic Receptors**

Nadezhda A. Itsikson, Irina V. Geide, Yuri Yu. Morzherin, Anatoly I. Matern, and Oleg N. Chupakhin*

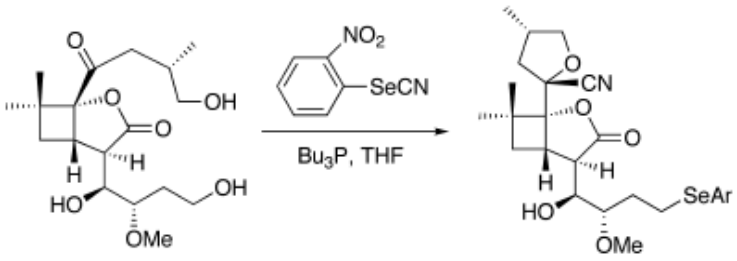


Heteroditopic Receptor Molecular Recognition Ion-Pair Receptor Crown Ether Calixarene

■ COMMUNICATIONS

111 **An Example of Overriding Cyanation during Reaction of a Primary Alcohol with *o*-Nitrophenyl Selenocyanate**

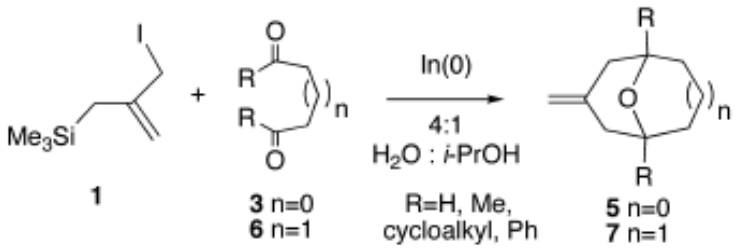
Shuzhi Dong and Leo A. Paquette*



Selenenylation Mitsunobu Reaction Cyanation Oxaphosphonium Salt 2-Cyanotetrahydrofuran

115 **Synthesis of Oxa-Bridged 7- and 8-Membered Rings *via* Indium-Mediated Annulation of 1,4- and 1,5-Dicarbonyl Compounds with 3-Iodo-2-[(trimethylsilyl)methyl]propene**

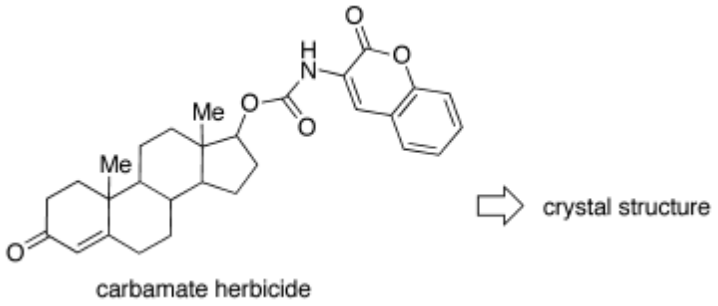
Amir Allatabakhsh, Minh Pham, and Thomas Minehan*



Aqueous Organic Reaction [m+n] Annulation Green Chemistry Medium-Ring Synthesis Oxa-Bridged Carbocycle

123 **Crystal Structures of Coumarin-3-carbamate Derivatives with Herbicidal Activities**

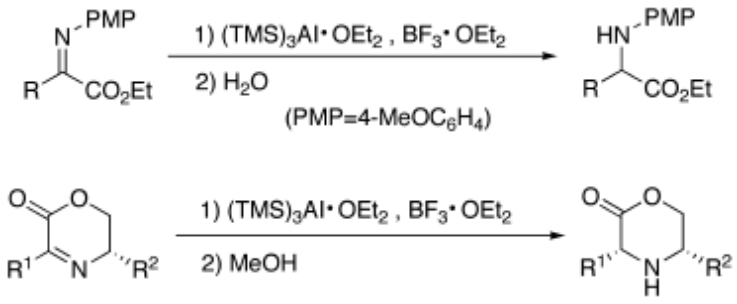
Hajime Takahashi, Haruko Takechi, Kanji Kubo,* and Taisuke Matsumoto



Crystal Structure Herbicide Coumarin Carbamate Hydrogen Bond

127 **Diastereoselective Reduction of α-Imino Esters with Tris(trimethylsilyl)aluminum**

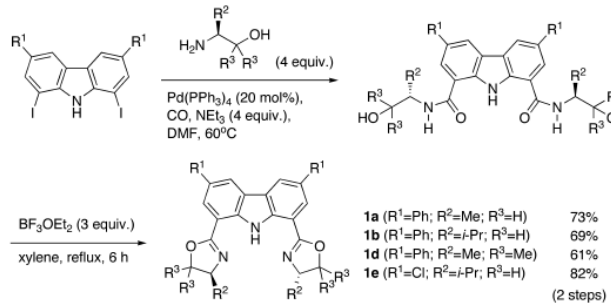
Makoto Shimizu,* Yasuki Niwa, Takeshi Nagai, and Iwao Hachiya



Tris(trimethylsilyl)aluminum α-Imino Ester α-Amino Ester Reduction *cis*-3,5-Disubstituted Morpholin-2-one

133 **New Preparation of Tridentate Bis-oxazoline Carbazole Ligand Effective for Enantioselective Nozaki-Hiyama Reaction**

Masahiro Inoue and Masahisa Nakada*

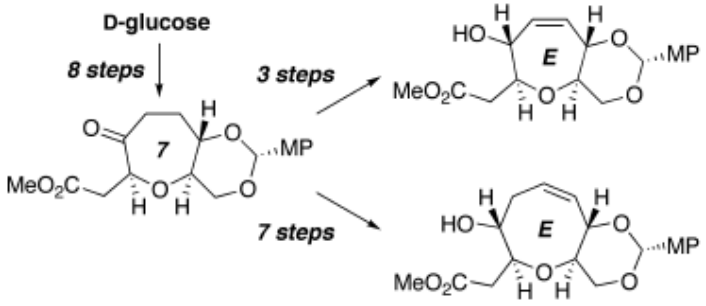


Bis-oxazoline Ligand Carbazole Tridentate Ligand Nozaki-Hiyama Reaction Pd-Catalyzed Amidation

■ PAPERS

327 **A Concise Route to Two Distinct E-Ring Structures of Ciguatoxins**

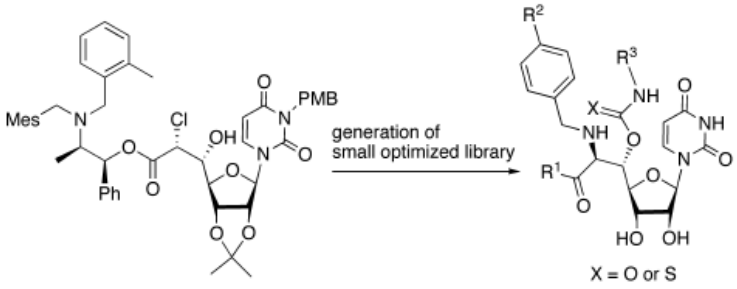
Masayuki Inoue,* Masafumi Iwatsu, Shuji Yamashita, and Masahiro Hirama*



Polyether Radical Ring Expansion Olefin Isomerization

339 **Synthetic Studies toward the Generation of Uridine-Amino Alcohol-Based Small Optimized Libraries**

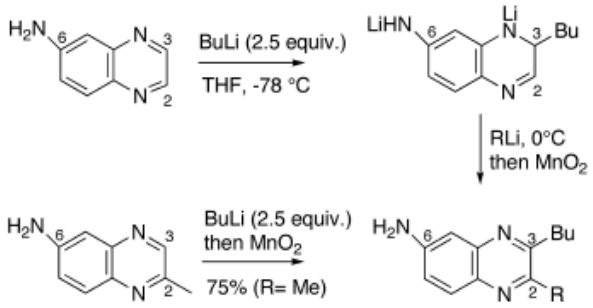
Michio Kurosu,* Prabagaran Narayanasamy, and Dean C. Crick



Small Optimized Library Uridine-Amino Alcohol Anti-Aldol Reaction MraY Inhibitor TB Drug Lead

353 **Novel Highly Regioselective Syntheses of Unsymmetrical 2,3-Disubstituted Quinoxalines**

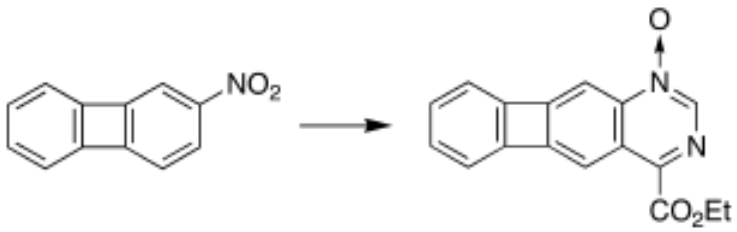
Xu Hui, Fanny Schmidt, Mohammed Akram Fakhfakh, Xavier Franck, and Bruno Figadère*



Organolithium Alkylation Oxidation Regioselectivity Bioactive

363 **Preparation of Biphenylene- and Benzocyclooctene-Fused Heterocycles**

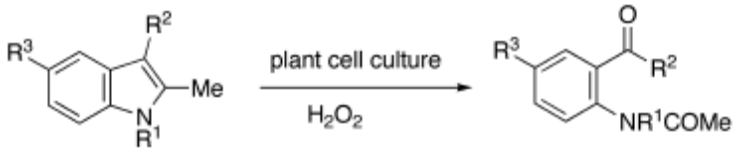
Hiroki Uoyama, Noboru Ono, and Hidemitsu Uno*



Nitration Biphenylene Benzocyclooctene Quinazoline Barton-Zard Pyrrole Synthesis

373 **Oxidative Cleavage Reaction of Substituted Indoles Catalyzed by Plant Cell Cultures**

Masumi Takemoto,* Yasutaka Iwakiri, and Kiyoshi Tanaka

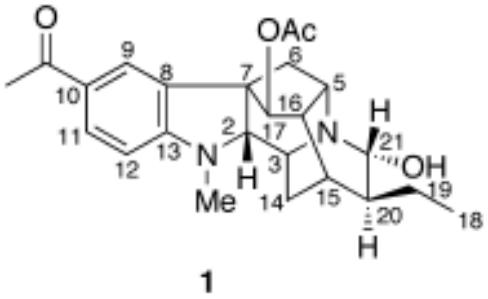


Oxidative Cleavage Reaction Plant Cell Culture Indole Catalyst Enzyme

■ NOTES

647 **Ajmalinimine Is an Artifact Not an Alkaloid**

Mauri Lounasmaa* and Pirjo Sainio (née Hanhinen)



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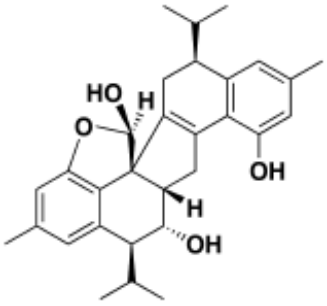
Ajmalinimine Artifact Formation ^{13}C NMR Spectral Data Rectification

649 **Parviflorene J, a Cytotoxic Sesquiterpene Dimer with a New Rearranged Skeleton from *Curcuma parviflora***

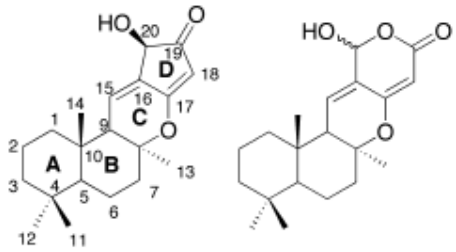
Mayu Tamaki, Samir Kumar Sadhu, Takashi Ohtsuki, Kazufumi Toume, Takashi Koyano, Thaworn Kowithayakorn, Masahiko Hayashi, Kanki Komiyama, and Masami Ishibashi*



Curcuma parviflora Zingiberaceae Parviflorene J Sesquiterpene Dimer Cytotoxicity

655 **Cytotoxic Haterumadienone Congeners from the Okinawan Marine Sponge *Dysidea* Sp.**

Katsuhiro Ueda,* Takayuki Ogi, Atsushi Sato, Eric R. O. Siwu, Masaki Kita, and Daisuke Uemura



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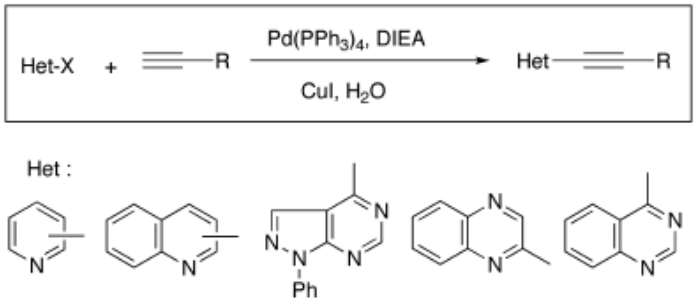
Puupehenone Congener Sea Urchin Egg Assay Structure-Activity Relationship Absolute Stereochemistry Marine Sponge

665 **Palladium-Catalyzed Coupling Reaction of Haloheteroaromatic Compounds in Water**

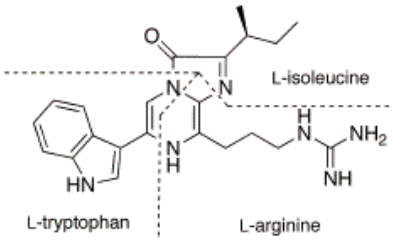
Naoki Inoue, Osamu Sugimoto,* and Ken-ichi Tanji*



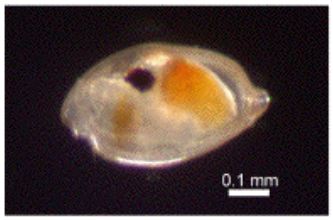
Palladium Coupling Reaction Water Heterocycle Sonogashira Reaction

673 **Biosynthesis of Cypridina Luciferin in *Cypridina noctiluca***

Shin-ichi Kato, Yuichi Oba,* Makoto Ojika, and Satoshi Inouye



Cypridina luciferin

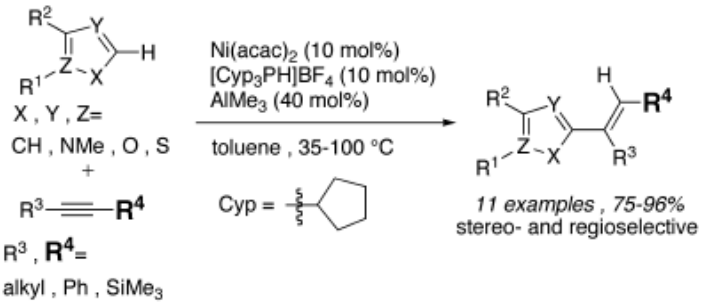


Cypridina noctiluca

Bioluminescence Biosynthesis Imidazopyrazinone Luciferin Isotope Labeled

677 **Practical Approach for Hydroheteroarylation of Alkynes Using Bench-Stable Catalyst**

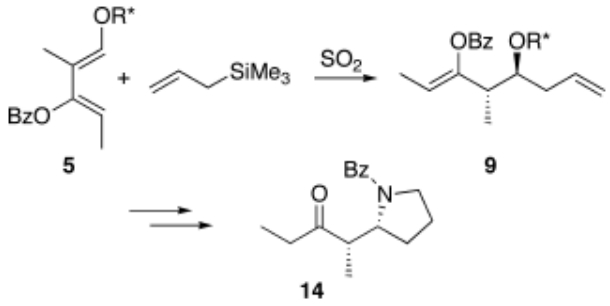
Kyalo Stephen Kanyiva, Yoshiaki Nakao,* and Tamejiro Hiyama*



Nickel Hydroarylation Alkyne C-H Bond Activation Atom Economy

681 **Synthesis of Enantiomerically Enriched 2-Substituted Pyrrolidine Analogues of Norhygrine. Applicatin of the Hetero-Diels-Alder Addition of Sulfur Dioxide**

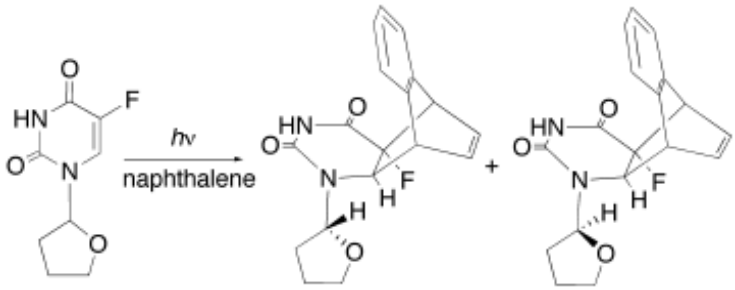
Māris Turks and Pierre Vogel*



Hetero-Diels-Alder Addition Sulfur Dioxide Vogel's Reaction Cascade Pyrrolidine Silyl Sulfinate

691 **Diastereodifferentiating [4+2]-Photocycloaddition of Tegafur with Naphthalene**

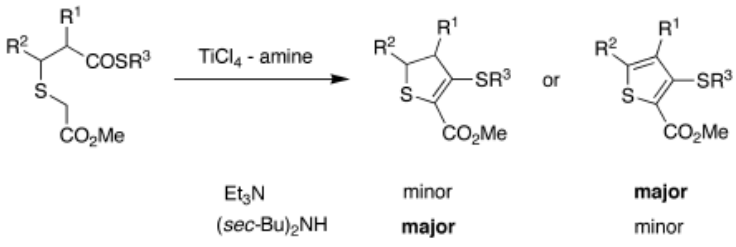
Kazue Ohkura,* Tatsuyuki Sugaoi, Masayuki Takahashi, and Koh-ichi Seki*



[4+2]-Photocycloaddition Diastereoselectivity Tegafur Naphthalene Ethenobenzoquinazoline

697 **Regioselective Synthesis of Methyl 3-Thiothiophene-2-carboxylate Derivatives Utilizing a Dehydration-Type Ti-Dieckmann Condensation**

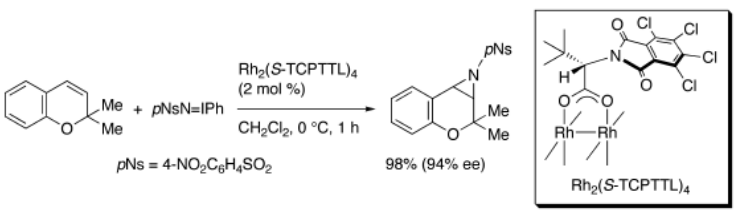
Ryohei Nagase, Hideki Gotoh, Mayumi Katayama, Naoki Manta, and Yoo Tanabe*



Thiophene Ti-Claisen Condensation Regioselective Dehydration Amine Reagent

709 **Catalytic Enantioselective Aziridination of Alkenes Using Chiral Dirhodium(II) Carboxylates**

Minoru Yamawaki, Masahiko Tanaka, Takumi Abe, Masahiro Anada, and Shunichi Hashimoto*



Asymmetric Catalysis Enantioselection Dirhodium(II) Complex Aziridination [*N*-(Arylsulfonyl)imino]phenyliodinane

■ INDEXES