■ CELEBRATION OF PROFESSOR EI-ICHI NEGISHI

■ CURRICULUM VITAE

■ PUBLICATIONS

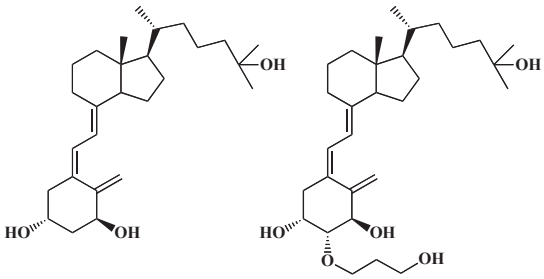
11 **List of Publications by Ei-ichi Negishi**

Ei-ichi Negishi*

■ REVIEWS

69 **Surveying the Effects of Eldecalcitol and Related Analogs from a Biological Perspective**

Noboru Kubodera*

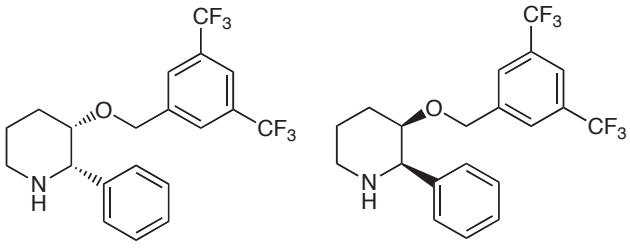


calcitriol eldecalcitol

Vitamin D_3 1α,25-Dihydroxyvitamin D_3 Calcitriol Eldecalcitol

89 **Synthesis of Two Neurokinin NK1 Receptor Antagonists: (+)-L-733,060 and (-)-L-733,061**

Anne Cochi, Domingo Gomez Pardo, and Janine Cossy*



(+)-L-733,060 (–)-L-733,061

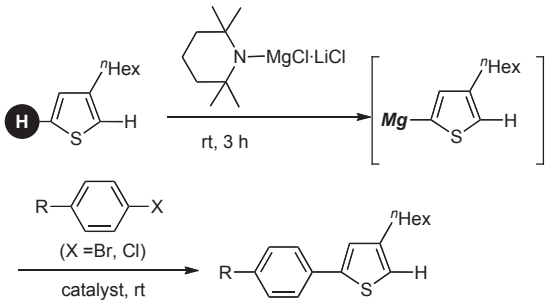
(+)-L-733,060 (-)-L-733,061 Piperidine Antagonist Substance P

■ COMMUNICATIONS

■ **PAPERS**

255 **C-H Arylation of 3-Substituted Thiophene with Regioselective Deprotonation by TMPMgCl·LiCl and Transition Metal Catalyzed Cross Coupling**

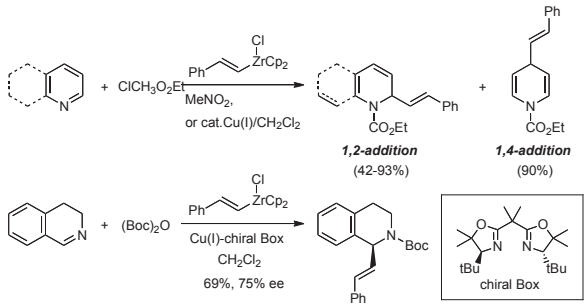
Shota Tanaka, Shunsuke Tamba, Atsushi Sugie, and Atsunori Mori*



3-Substituted Thiophene Knochel-Hauser Base Regioselective Metalation C-H Arylation 2,5-Diarylthiophene

267 **Reissert-like Alkenylation of Azaaromatic Compounds with Alkenylzirconocene Chloride Complexes**

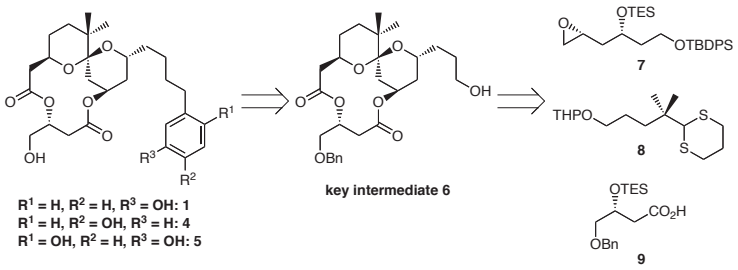
Akio Saito,* Kohei Sudo, Koichi Iimura, Miki Hayashi, and Yuji Hanzawa*



Nucleophilic Addition Solvent Effect Organozirconocene Chloride Copper *N*-Acyl Iminium

281 **Synthesis of Antineoplastic Analogs of Aplysiatoxin with Various Side Chain Structures**

Yuki Shu, Ryo C. Yanagita, Harukuni Tokuda, Nobutaka Suzuki, and Kazuhiro Irie*

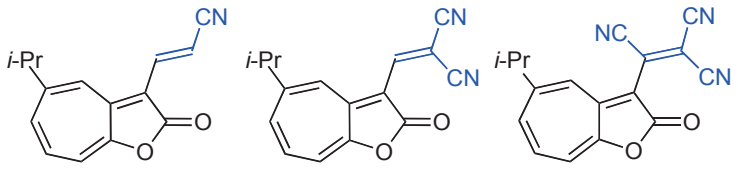


R¹ = H, R² = H, R³ = OH: 1
R¹ = H, R² = OH, R³ = H: 4
R¹ = OH, R² = H, R³ = OH: 5

Aplysiatoxin Tumor Promoter Protein Kinase C Anti-proliferative Activity Epstein-Barr Virus

305 **Synthesis and Redox Behavior of Cyanovinyl-Substituted 2*H*-Cyclohepta[*b*]furan-2-ones**

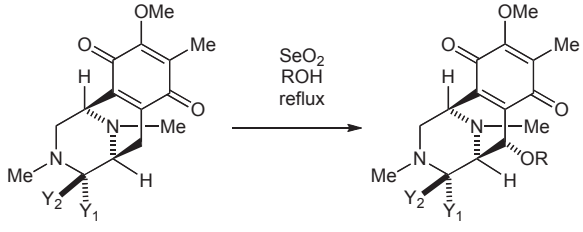
Taku Shoji,* Junya Higashi, Shunji Ito, Mitsunori Oda, Masafumi Yasunami, and Noboru Morita



Heteroazulene Troponoid Electrophilic Substitution Condensation Reaction Redox Chemistry

317 **Selenium Oxide Oxidation of Hexahydro-1,5-imino-3-benzazocine-7,10-dione in Aliphatic Alcohol for Conversion of Renieramycin Marine Natural Products**

Mayuko Mori, Naomi Daikuhara, Junya Yamada, and Naoki Saito*

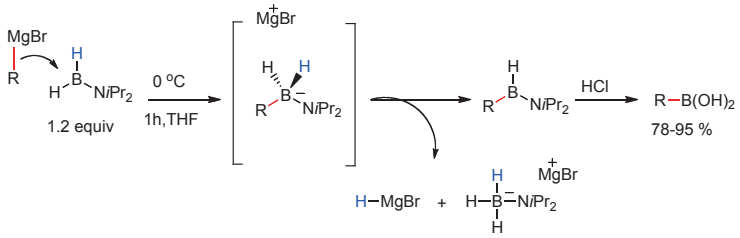


Y_1, Y_2 = O
Y_1 = CN, Y_2 = H

Renieramycin Synthesis Cytotoxicity Selenium Oxide Oxidation Stereoselective

331 **Reaction of Grignard Reagents with Diisopropylaminoborane. Synthesis of Alkyl, Aryl, Heteroaryl and Allyl Boronic Acids from Organo-(diisopropyl)aminoborane by a Simple Hydrolysis**

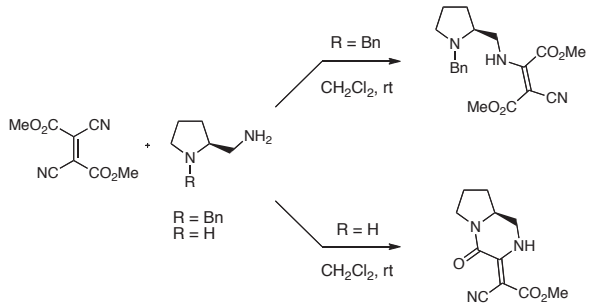
Christopher L. Bailey, Chris L. Murphy, Jacob W. Clary, Scott Eagon, Naomi Gould, and Bakthan Singaram*



Aminoborane Borylation Grignard Reagent Boronic Acid Barbier

343 **Reactions of Amines and Hydrazides derived from L-Proline with Dialkyl Dicyanofumarates**

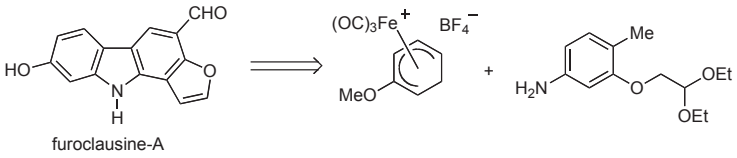
Grzegorz Mlostoń,* Adam M. Pieczonka, Aneta Wróblewska, Anthony Linden, and Heinz Heimgartner*



L-Prolinamine L-Prolinehydrazide Dicyanofumarate 2-{[(1-Benzylpyrrolidin-2-yl)methyl]amino}-3-cyanobut-2-enedioate

357 **Transition Metals in Organic Synthesis, Part 104. Iron-Mediated Total Synthesis of Furoclausine-A**

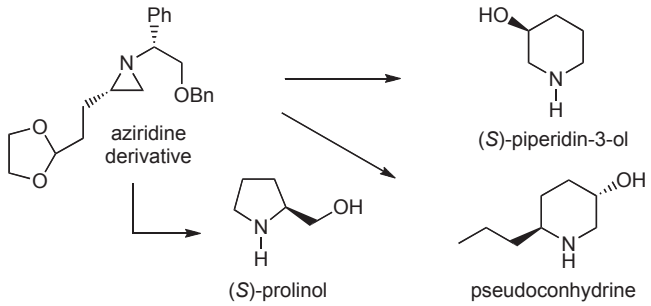
Micha P. Krahl, Arndt W. Schmidt, and Hans-Joachim Knölker*



Alkaloid Furan Cyclization Iron Oxidation

371 **Asymmetric Syntheses of Pyrrolidine and Piperidine Derivatives via Regio- and Stereo-Selective Ring-Opening Reactions of Chiral Aziridine**

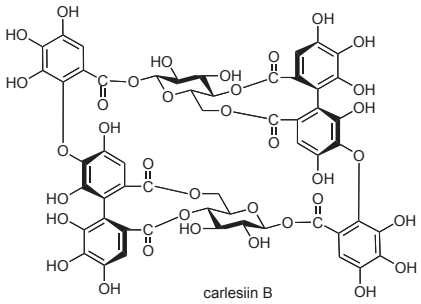
Kimio Higashiyama,* Masataka Matsumura, Emiko Kurita, and Takayasu Yamauchi



Chiral Aziridine Ring Opening Asymmetric Synthesis Cyclic β-Amino Alcohol (-)-Pseudoconhydrine

381 **Isolation of Ellagitannin Monomer and Macrocyclic Dimer from *Castanopsis carlesii* Leaves**

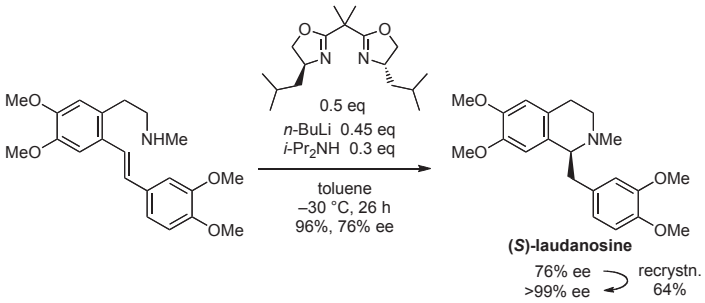
Yong-Lin Huang, Takashi Tanaka,* Yosuke Matsuo, Isao Kouno, Dian-Peng Li, and Gen-ichiro Nonaka



Castanopsis carlesii Fagaceae Ellagitannin Polyphenol Chemotaxonomy

469 **Catalytic Asymmetric Synthesis of (*S*)-Laudanosine by Hydroamination**

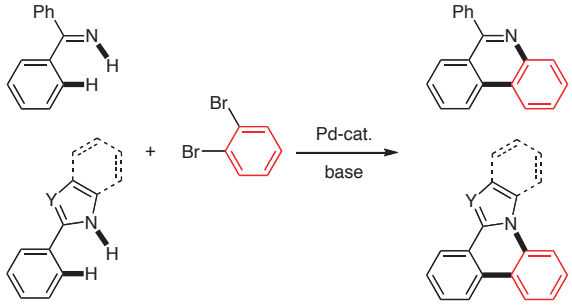
Tokutaro Ogata, Tetsutaro Kimachi, Ken-ichi Yamada, Yasutomo Yamamoto, and Kiyoshi Tomioka*



Hydroamination Tetrahydroisoquinoline Isoindoline

487 **Synthesis of Phenanthridines and Related Compounds by Palladium-Catalyzed Direct Coupling via C–H and N–H Bond Cleavages**

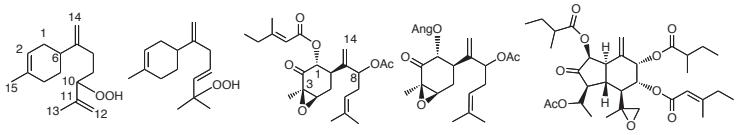
Daisuke Takeda, Koji Hirano, Tetsuya Satoh,* and Masahiro Miura*



Phenanthridine Palladium Catalyst C-H Bond Cleavage Coupling Arylation

497 **Three New Bisabolane-Type Sesquiterpenoids from *Cremanthodium rhodocephalum* (Asteraceae)**

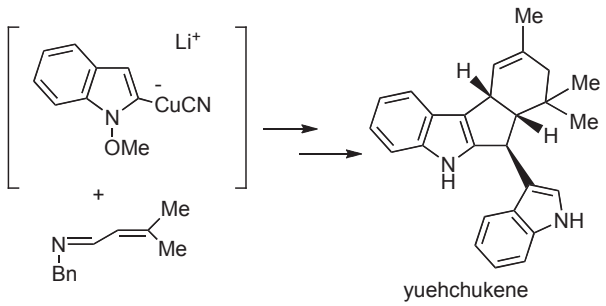
Yoshinori Saito, Koji Takiguchi, Xun Gong, Chiaki Kuroda, and Motoo Tori*



Cremanthodium rhodocephalum Sesquiterpenoid Bisabolane-Type Oplopane-Type Hydroperoxide

505 **Short Approach to Bisindole Alkaloid, Yuehchukene, Using 2-Indolylcyanocuprate**

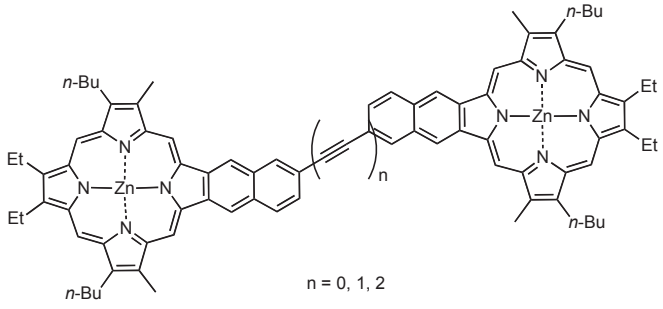
Takumi Abe, Hiroyuki Komatsu, Toshiaki Ikeda, Noriyuki Hatae, Eiko Toyota, and Minoru Ishikura*



Indolylcyanocuprate Yuechukene Dehydroprenylindole Iminium Dimerization

515 **Synthesis of Bis-naphthoporphyrins**

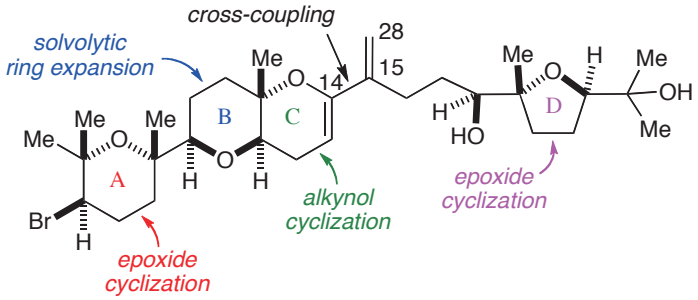
Hiroki Uoyama, Hiroko Yamada, Tetsuo Okujima, and Hidemitsu Uno*



Naphthoporphyrin Sonogashira Reaction Suzuki-Miyaura Reaction Glaser Coupling Retro-Diels-Alder Reaction

535 **Synthesis of 15,28-Dideoxy-15,28-didehydrothyrsenol**

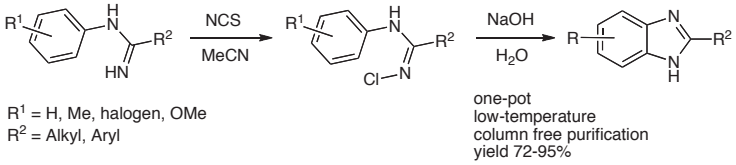
Mary A. Smart and Frank E. McDonald*



Marine Polyether Triterpene Epoxide Cyclization Ring Expansion Alkynol Cyclization Stille Cross-Coupling

555 ***N*-Chlorosuccinimide/Sodium Hydroxide-Mediated Synthesis of Benzimidazoles from Amidines under Mild Conditions**

Thanh Binh Nguyen,* Ludmila Ermolenko, and Ali Al-Mourabit



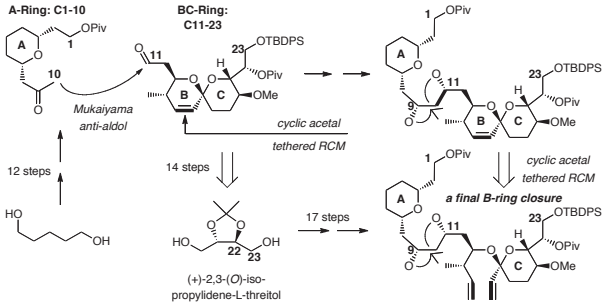
R^1 = H, Me, halogen, OMe
R^2 = Alkyl, Aryl

one-pot
low-temperature
column free purification
yield 72-95%

C-H Functionalization Benzimidazole *N*-Arylamidine *N*-Chlorosuccinimide

565 **Assembly of the Southern Macrocyclic Half of (+)-Spirastrellolide A through Cyclic Acetal Tethered Ring-Closing Metathesis and 1,3-Anti-Mukaiyama-Aldol**

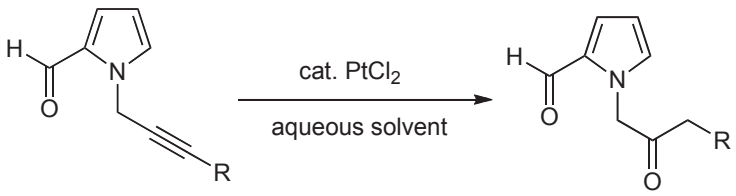
Yu Tang,* Jin-Haek Yang, Jia Liu, Chao-Chao Wang, Ming-Can Lv, Yi-Biao Wu, Xue-Liang Yu, Changhong Ko, and Richard P. Hsung*



Spirastrellolide A Natural Product Synthesis Cyclic Acetal Tethered RCM Spiroketal Synthesis Mukaiyama Aldol

599 **Platinum-Catalyzed Regioselective Hydration of 1-(2-Propynyl)-2-formylpyrroles**

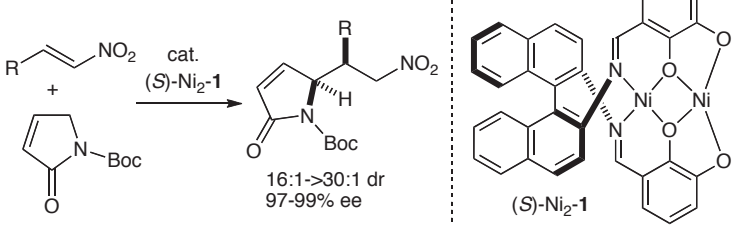
Masahiro Yoshida* and Shota Yodokawa



Hydration Platinum Pyrrole Regioselective Reaction Neighboring Group Participation

611 **Direct Catalytic Asymmetric Vinylogous Michael Reaction of α,β-Unsaturated γ-Butyrolactam under Dinuclear Nickel Schiff Base Catalysis**

Hirooki Tanabe, Yingjie Xu, Bo Sun, Shigeki Matsunaga,* and Masakatsu Shibasaki*

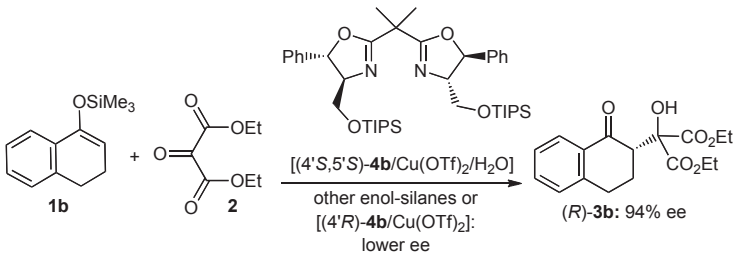


Asymmetric Catalysis Asymmetric Synthesis Bifunctional Catalyst Bimetallic Catalyst γ-Butyrolactam

■ SHORT PAPERS

669 **Enantioselective Mukaiyama-Aldol Reaction between Enol Silanes and Ketomalonate Catalyzed by the Copper(II) Complex of TIPS-Substituted Bis-oxazoline**

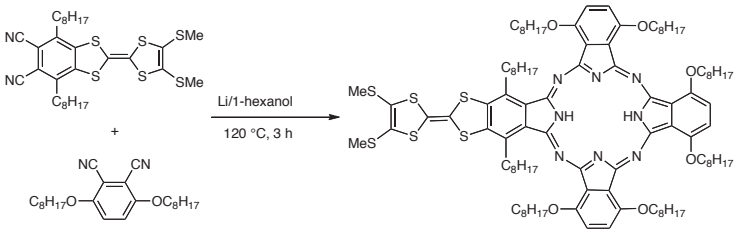
Giovanni Desimoni,* Guiseppe Faita, Alessandro Livieri, and Laura Ponta



Mukaiyama-Aldol Reaction Enantioselective Catalyst Bis-oxazoline Copper(II)

679 **α-Substituted Unsymmetrical Phthalocyanines with One through Three TTF Units and Their Optical and Electrochemical Properties**

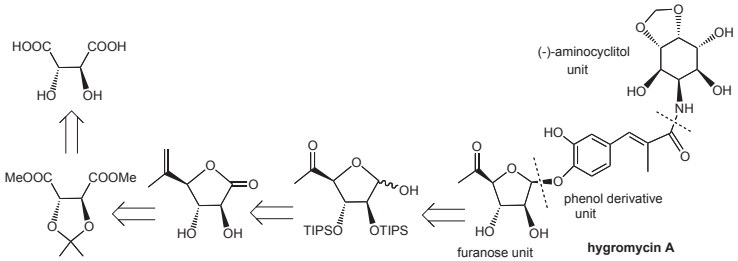
Takeshi Kimura,* Nobuhiro Takahashi, Tomoyuki Tajima, and Yutaka Takaguchi



Phthalocyanine Tetrathiafulvalene UV-Vis Spectroscopy Cyclic Voltammetry Charge Transfer Complex

687 **A C_2-Symmetric Pool Based Synthesis of the Furanoside of Hygromycin A**

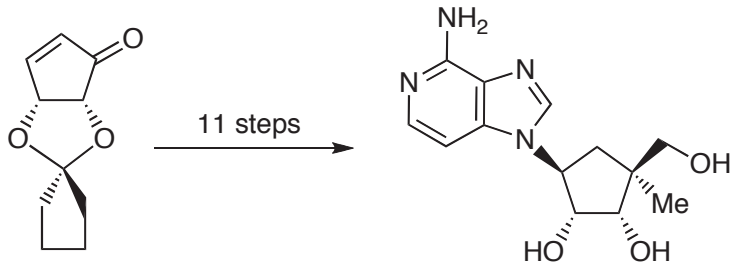
Hong-Jay Lo, Yuan-Kang Chang, Feng-Yi Lin, and Tu-Hsin Yan*



Hygromycin A Furanose Aminocyclitol Chiral Pool D-Tartaric Acid

697 **A Convenient Synthesis of the L-Like Enantiomer of 4'-Methyl-3-deazaaristeromycin**

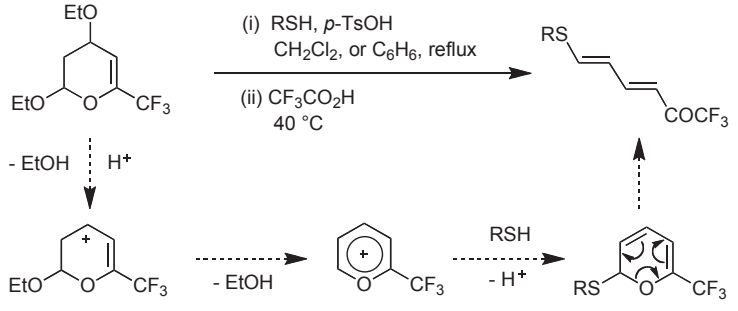
Chun Chen, Wei Ye, and Stewart W. Schneller*



Carbocyclic Nucleoside 6-Chloro-3-deazapurine Oxidative Rearrangement

705 **Computational Study on Acid Catalyzed Ring-Opening Reaction of 2,4-Diethoxy-6-trifluoromethyl-3,4-dihydro-2*H*-pyran with Thiols**

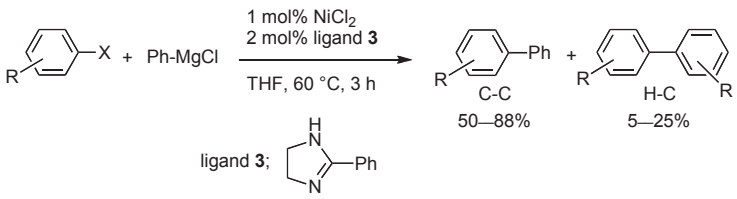
Norio Ota, Yasuhiro Kamitori,* Mizuki Hatakenaka, and Etsuji Okada*



Fluorine-Containing Dihydropyran Fluorine-Containing 1,3-Butadienyl Sulfide Ring-Opening Reaction Acid Catalyzed Reaction DFT Calculation

713 **Imidazole and Imidazoline Derivatives as *N*-Donor Ligands for Nickel-Catalyzed Kumada-Tamao-Corriu Coupling**

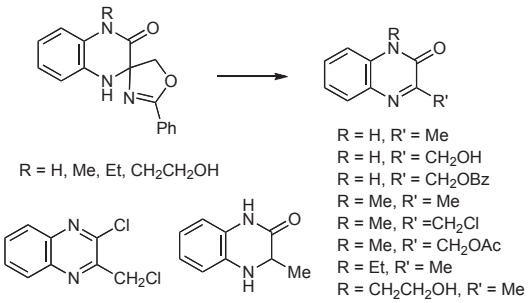
Ryo Iwamoto and Masahiko Hayashi*



Kumada-Tamao-Corriu Coupling Reaction Cross Coupling Nickel Imidazoline

719 **Ring-Opening Reactions of 2-Phenyl-1'*H*,5*H*-spiro-[oxazole-4,2'-quinoxalin]-3'(4'*H*)-ones**

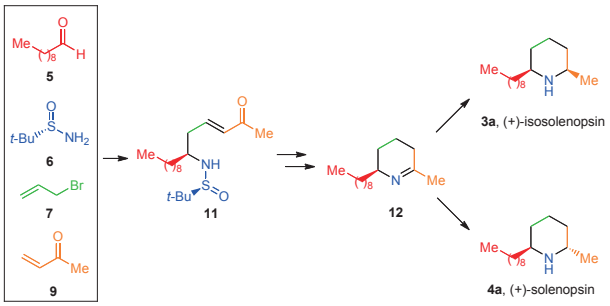
Irena Mušič and Bojan Verček*



1'*H*,5*H*-Spiro[oxazole-4,2'-quinoxalin]-3'(4'*H*)-one Ring-Opening Reaction Quinoxaline

727 **Enantioselective Synthesis of *cis*- and *trans*-2-Methyl-6-nonylpiperidines: Alkaloids Solenopsin and Isosolenopsin**

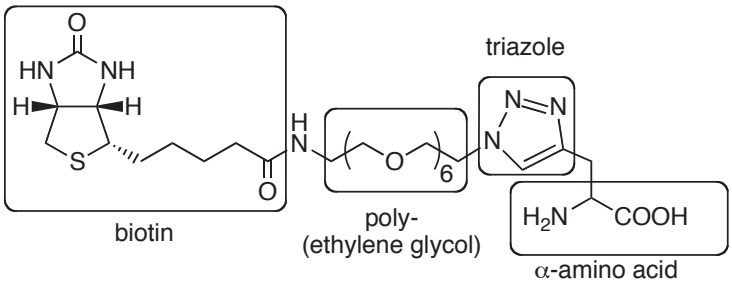
Mohamed Medjahdi, José Carlos González-Gómez,* Francisco Foubelo, and Miguel Yus*



Cross-Metathesis Piperidine Alkaloid Stereoselective Reductive Amination Stereoselective Amino Allylation

735 **Quantitative Analysis of Cu(I) Concentration in Click Chemistry — Biotinylation at Side Chain of Propargylglycine Using Click Chemistry under Heating Conditions —**

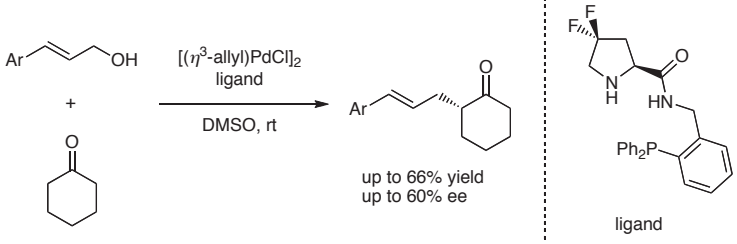
Yui Ogasawara, Yuta Murai, Yasuko Sakihama, Yasuyuki Hashidoko, and Makoto Hashimoto*



Click Chemistry Propargylglycine Biotin Cu(I) Determination Bathocuproinedisulfonic Acid

745 **Direct Asymmetric α-Allylation of Ketones with Allylic Alcohols via Pd/Enamine Cooperative Function**

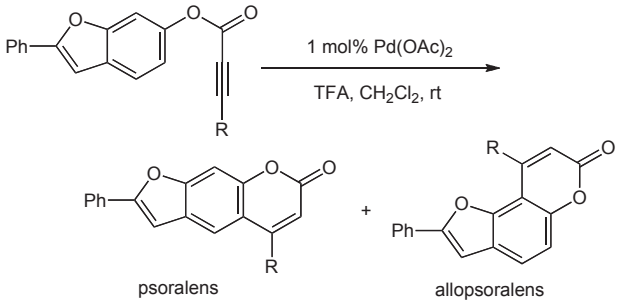
Shigeo Yasuda, Naoya Kumagai,* and Masakatsu Shibasaki*



Dual Activation Asymmetric Reaction Palladium Enamine

759 **Palladium-Catalyzed Intramolecular Hydroarylation of 6-Benzofuranyl Alkynoates**

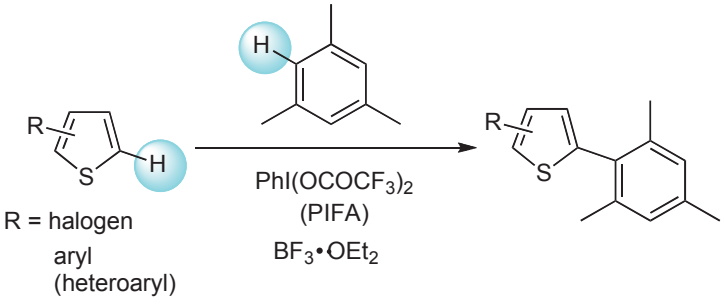
Tsugio Kitamura* and Kensuke Otsubo



Hydroarylation Palladium Furocoumarin

767 **Hypervalent Iodine Induced Oxidative Cross Coupling *via* Thiophene Cation Radical Intermediate**

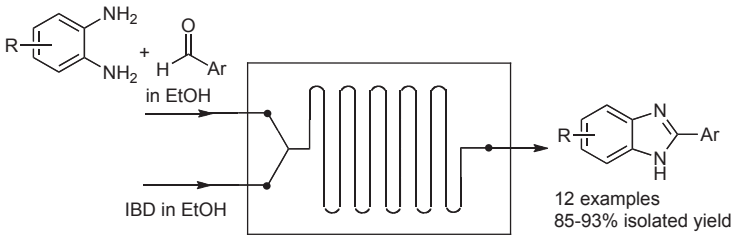
Toshifumi Dohi, Motoki Ito, Sho Sekiguchi, Yohei Ishikado, and Yasuyuki Kita*



Hypervalent Iodine C-C Coupling Heteroaromatic Compound Single-Electron-Transfer Oxidation

777 **Synthesis of 2-Arylbenzimidazoles in Microfluidic Chip Reactor**

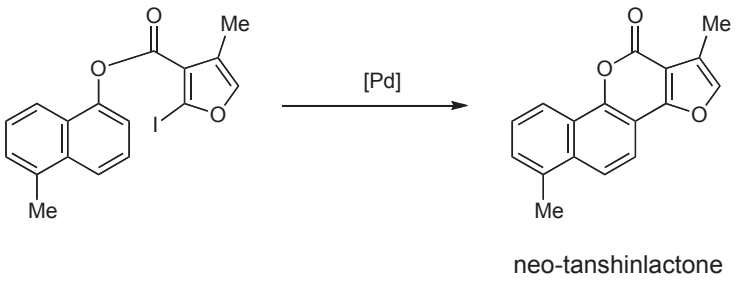
Ming Lei,* Wei Li, Ruijun Hu, Wan Tian, Yanguang Wang, and Hong Zhang*



Continuous Flow Synthesis 2-Arylbenzimidazole Microfluidic Chip

785 **Synthesis of Neo-tanshinlactone via the Palladium-Mediated Intramolecular Biaryl Coupling Reaction**

Hitoshi Abe,* Toshitaka Kawai, Yoshinori Komatsu, Mayu Kamimura, Yasuo Takeuchi, and Yoshikazu Horino



neo-tanshinlactone

Palladium Intramolecular Coupling Lactone Furan

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