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Yasuyuki Kita*
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■ PUBLICATIONS

- 17 **Publications List by Yasuyuki Kita**
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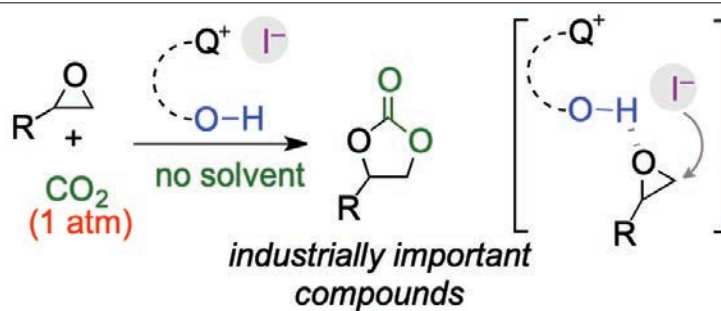
■ REVIEWS

- 65 **Recent Advances in the Microwave Assisted Synthesis of Benzofuran and Indole Derivatives**
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Keisuke Hosoya, Keita Iida, Minami Odagi,* and Kazuo Nagasawa*

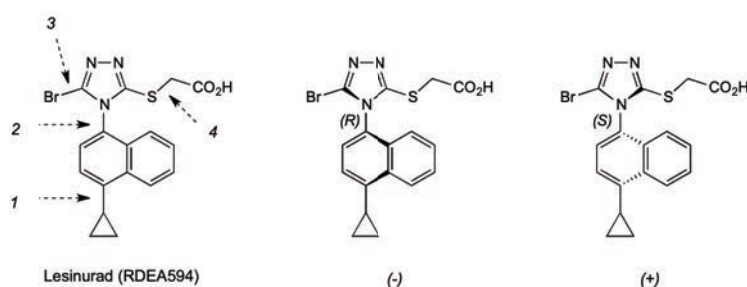


C4a,C9a-Fused Tetracyclic Hydrocarbazole Synthesis

Monoterpene Indole Alkaloid Tetracyclic Hydrocarbazole Akuammiline Alkaloid Minfiensine

129 Lesinurad – There are More Ways than One of Synthesizing the Drug

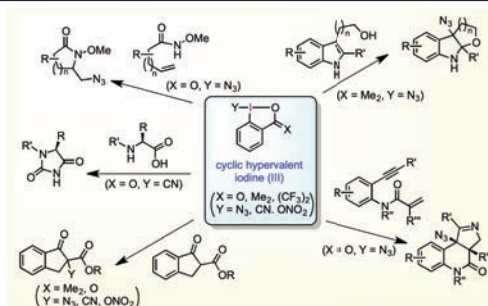
Piotr P. Graczyk* and Sven Nerdinger*



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Naoko Takenaga,* Hideyasu China, Ravi Kumar, and Toshifumi Dohi*

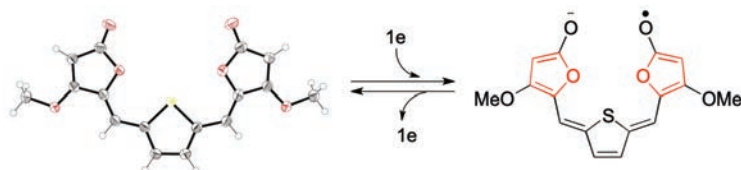


Hypervalent Iodine Cyclic Azidation Cyanation Radical

■ COMMUNICATIONS

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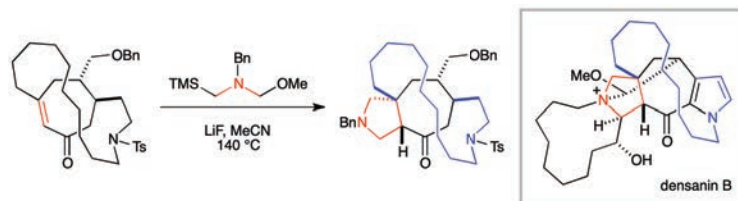
Yuki Hayashi, Yusuke Ishigaki, Jérémy Merad, Takanori Suzuki,* and Maurice Médebielle*



Electron Acceptor Electron Transfer Furanone Reduction Anion

172 Synthetic Studies on Densanins: Stereoselective Construction of a Pyrrolidine Ring Containing a Quaternary Carbon

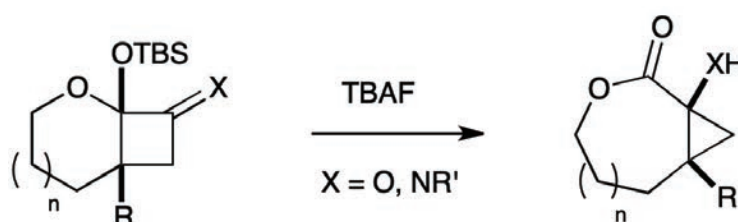
Kyosuke Ueda and Satoshi Yokoshima*



Alkaloid Azomethine Ylide Cycloaddition Enone Macrocyclic Ring

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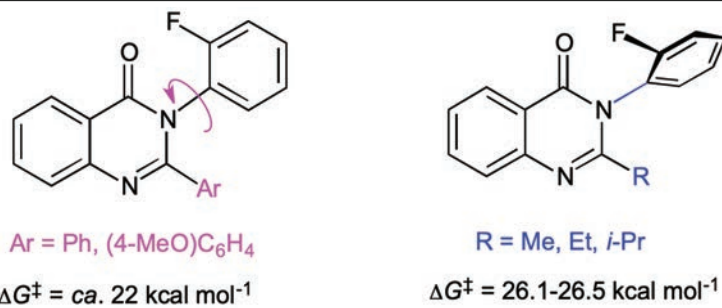
Kiyosei Takasu,* Koichi Shigenaga, Kazuma Shimoda, Hiroshi Takikawa, and Yousuke Yamaoka


ring contractive α -ketol rearrangement

Ring Contraction Cyclobutanone Cyclopropane Ketal Ketol Rearrangement

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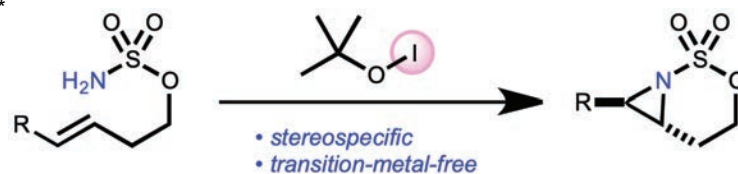
Asumi Iida, Kazuya Saito, Nanami Asada, Yuuki Fujimoto, and Osamu Kitagawa*



Axial Chirality Quinazolinone Fluorine Enantiomer Rotational Barrier

190 Transition-Metal-Free Aziridination of Alkenes with Sulfamate Esters Using *tert*-Butyl Hypoiodite

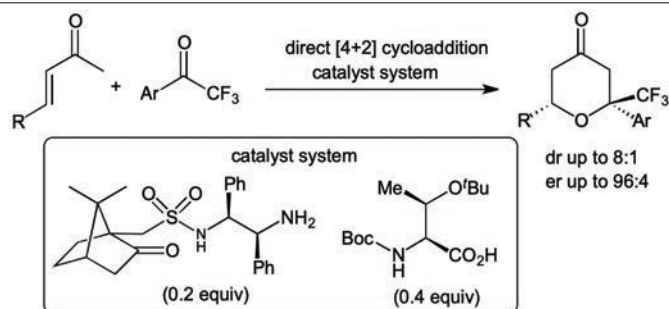
Kensuke Kiyokawa,* Shogo Nakamura, and Satoshi Minakata*



Amination Aziridine Cyclization Iodine Sulfamate Ester

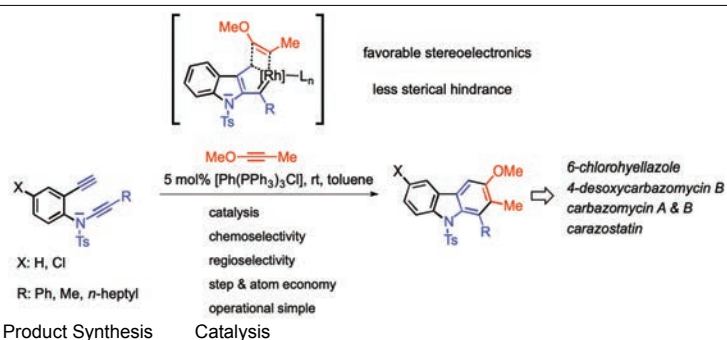
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Maira Pasha and Fujie Tanaka*

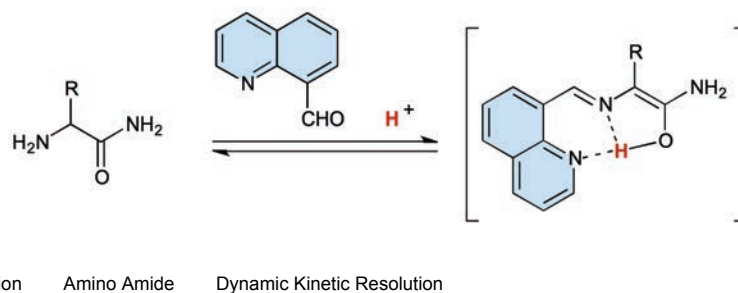


Asymmetric Reaction Cycloaddition Hetero-Diels-Alder Reaction Oxa-Diels-Alder Reaction Tetrahydropyran

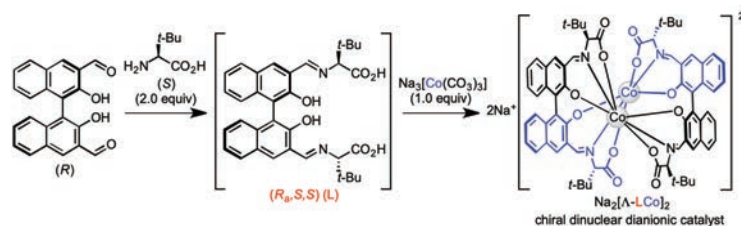
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- 218 **Hybrid Catalysis of 8-Quinolinecarboxaldehyde and Brønsted Acid for Efficient Racemization of α -Amino Amides and Its Application in Chemoenzymatic Dynamic Kinetic Resolution**
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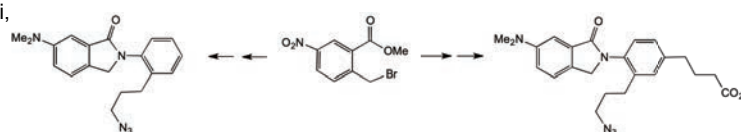


- 225 **Preparation of Optically Pure Dinuclear Cobalt(III) Complex with Λ -Configuration as a Dianionic Chiral Catalyst**
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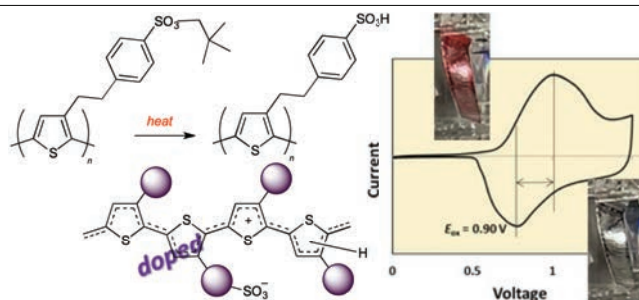
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249 Thermally-Induced Doping of the Regioregular Polythiophene Bearing Alkylene Spaced Benzenesulfonate Group at the Side Chain

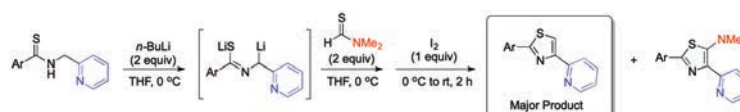
Chihiro Kubota, Daisuke Morita, Keisuke Fujita, Sonoka Yamamoto, Toyoko Suzuki, Kentaro Okano, Masahiro Funahashi, Masaki Horie, and Atsunori Mori*



Regioregular Polythiophene Thermally-Induced Doping Alkylene Spaced Benzenesulfonate Knochel-Hauser Base Nickel NHC Complex

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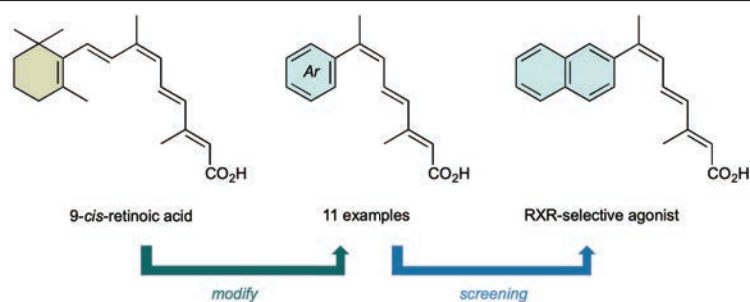
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5-H Thiazole Thioamide Thioamide Dianion

267 Concise Preparation and Biological Evaluations of 9-cis-Retinoic Acid Analogues Having an Aromatic Ring

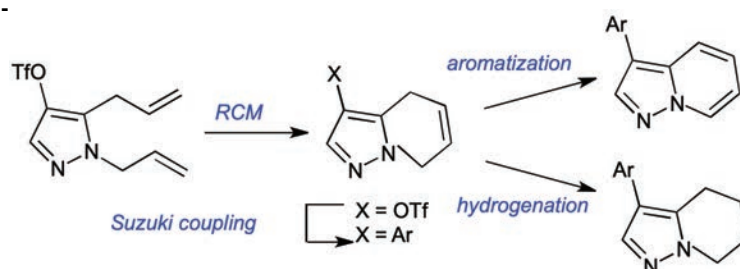
Takashi Okitsu,* Kinya Iwatsuka, Kimie Nakagawa, Toshio Okano, and Akimori Wada*



Retinoid RXR RAR Agonist 9-cis-Retinoic Acid

284 3-Trifluoromethanesulfonyloxy-4,7-dihydropyrazolo[1,5-a]pyridine via Ring-Closing Metathesis: Synthesis and Transformation to Withasomnine Homologs

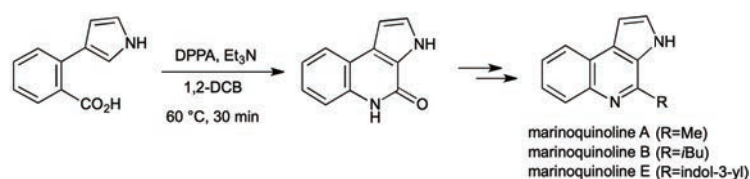
Yoshihide Usami,* Yuya Tatsui, Kodai Sumimoto, Ayami Miyamoto, Nanase Koito, Hiroki Yoneyama, and Shinya Harusawa



3-Toluenesulfonyloxy-4,7-dihydropyrazolo[1,5-a]pyridine Withasomnine Homologue Ring-Closing Metathesis 3-Arylpyrazolo[1,5-a]pyridine

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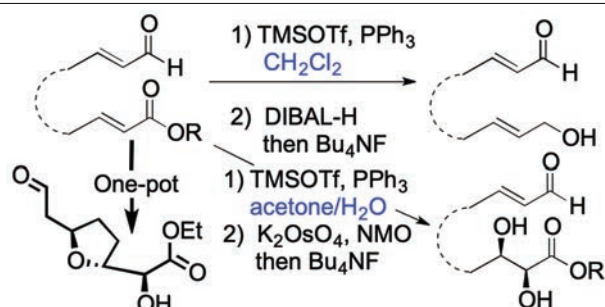
Takashi Nishiyama, Mari Murakami, Kimiko Taninaka, Erina Hamada, Mai Endo, Daiki Kinou, Noriyuki Hatae, and Tominari Choshi*



Marinoquinoline A Marinoquinoline B Marinoquinoline E Pyrrolo[2,3-c]quinoline Electrocyclization Total Synthesis

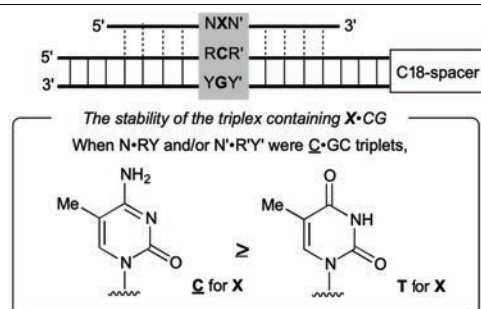
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Kenta Morita, Kenichi Murai, Mitsuhiro Arisawa, and Hiromichi Fujioka*


in situ Protection Method Chemoselective Transformation Phosphonium Salt α,β -Unsaturated Ester Enal

322 The Effect of the Base Triplets Adjacent to a T•CG or 5-MethylC•CG Triplet in the Triplex DNA

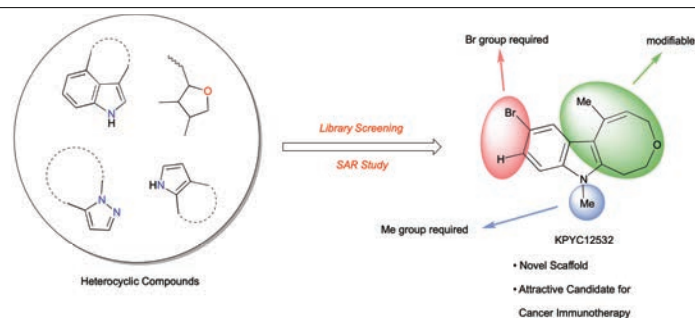
Yuta Ito, Chisa Hama, Takashi Osawa, and Yoshiyuki Hari*



Triplex DNA Triplex-Forming Oligonucleotide UV-Melting Experiment Bridged Nucleic Acid

331 Identification of a Novel Indoleamine 2,3-Dioxygenase Inhibitor Bearing an Eight-Membered Ring Fused Indole Scaffold and Its Structure-Activity Relationship

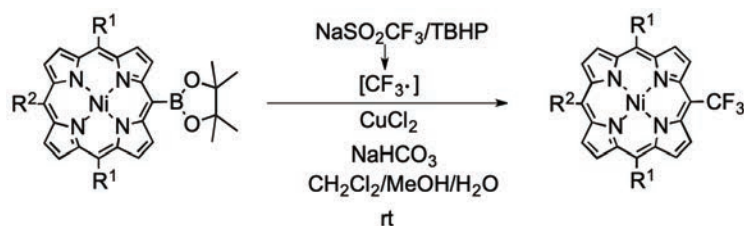
Ayuta Yamaguchi, Shinsuke Inuki,* Katsumi Ohta, Shinya Oishi, Akira Asai, and Hiroaki Ohno*



IDO1 Inhibitor Cancer Immunotherapy Structure-Activity Relationship (SAR) Ring-Fused Indole

348 Copper-Mediated Trifluoromethylation of Borylporphyrins Using an *in situ*-Generated CF_3 Radical from NaSO_2CF_3 and *tert*-Butyl Hydroperoxide

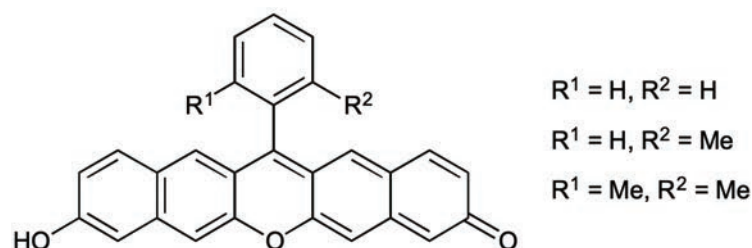
Satoshi Hayashi,* Daisuke Yamazaki, and Toshikatsu Takanami*


 $R^1, R^2 = \text{Aryl, Alkyl, Functional group (-CH}_2\text{OH, -CH}_2\text{CO}_2\text{Et, -SPh)}$

 Trifluoromethylation Porphyrin CF_3 Radical NaSO_2CF_3 Functionalization

365 An Alternative Approach to the Development of Near-Infrared Fluorescent Dyes Based on Fluorescein

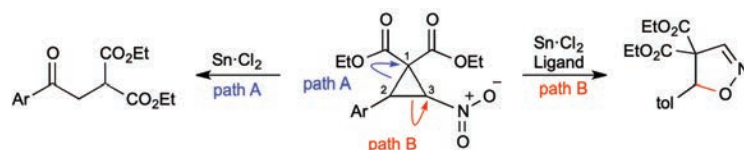
Akane Katori, Akari Yamagami, Sae Wakabayashi, Kouji Kuramochi, Ayumi Imayoshi, and Kazunori Tsubaki*



Fluorescein Dinaphthofluorescein Dibenzoxanthone

379 Regiodivergent Ring Opening Reactions of 2-Arylated 3-Nitrocyclopropane-1,1-dicarboxylates Leading to Polyfunctionalized Dipoles

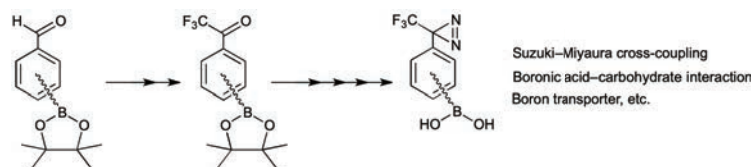
Haruyasu Asahara,* Rikiya Kamidate, and Nagatoshi Nishiwaki*



Donor-Acceptor Cyclopropane Ring Opening Reaction Lewis Acid Isoxazoline

392 Synthesis of (Trifluoromethyldiazirinyl)phenylboronic Acid Derivatives for Photoaffinity Labeling

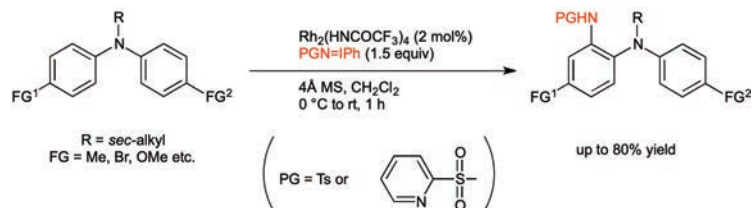
Manami Hashinoki, Natsumi Kurokawa, Yuta Murai, Zetryana Puteri Tachrim, Yasuko Sakihama, Takeyuki Suzuki, and Makoto Hashimoto*


 Suzuki-Miyaura cross-coupling
 Boronic acid-carbohydrate interaction
 Boron transporter, etc.

Diazirine Photoaffinity Labeling Phenylboronic Acid Pinacol Ester Boron Transporter Suzuki-Miyaura Coupling

403 Dirhodium(II)-Catalyzed *ortho* C–H Amination of *N*-Alkyldiarylamines

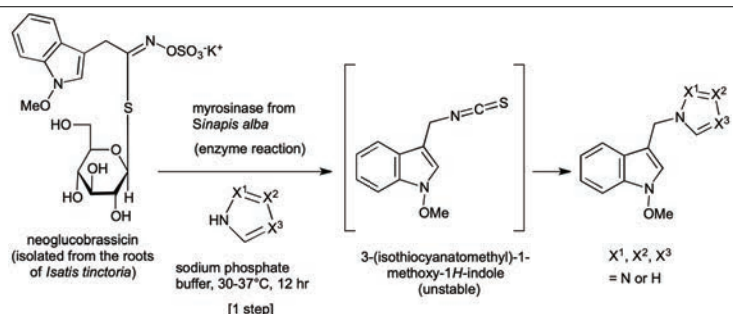
Motoki Ito,* Mamiko Mori, Tomoya Nakagawa, Miki Hori, Kazuhiro Higuchi, and Shigeo Sugiyama*



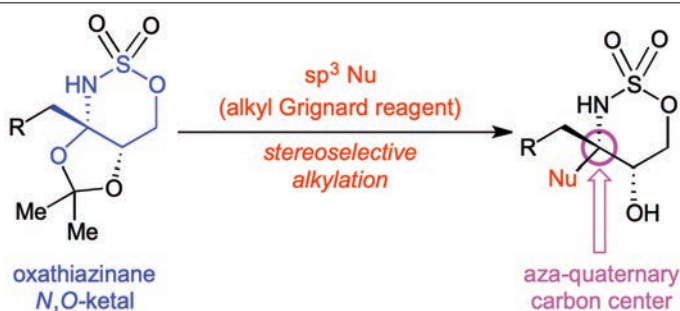
Rhodium C-H Amination Nitrene Diarylamine

416 Synthesis of 1-Methoxy-1*H*-indoles with a Heterocyclic Moiety via Unstable Indole Isothiocyanate by Using Enzyme from *Brassicaceae* Plant

Kaori Ryu, Seikou Nakamura,* Koya Miyagawa, Souichi Nakashima, and Hisashi Matsuda*

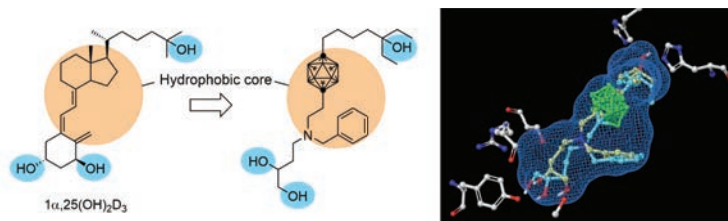

 1-Methoxy-1*H*-indole Derivative Indole Isothiocyanate Myrosinase *Isatis tinctoria* *Brassicaceae*
425 Stereoselective Alkylation of Oxathiazinane *N,O*-Ketals for the Construction of Aza-Quaternary Carbon Centers

Hisanori Nambu, Eri Tanaka, Mai Okada, Chiaki Hirose, Narumi Noda, Tomoya Fujiwara, and Takayuki Yakura*


 Alkylation Aza-Quaternary Carbon Center Oxathiazinane *N,O*-Ketal Grignard Reagent Sphingofungin F

444 Synthesis and Structure-Activity Relationship Study of 1,12-Dicarba-*closo*-dodecaborane-based Triol Derivatives as Nonsecosteroidal Vitamin D Analogs

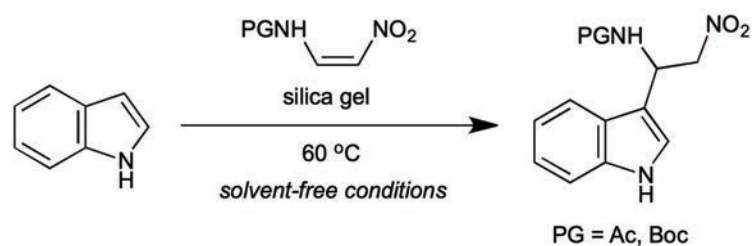
Shinya Fujii, Ryota Sekine, Atsushi Kano, Hiroyuki Masuno, Emiko Kawachi, Tomoya Hirano, and Hiroyuki Kagechika*



Vitamin D Carborane Nonsecosteroidal

■ SHORT PAPERS
459 Conjugate Addition Reaction of Indole to Protected 2-Amino-1-nitroethenes Mediated by Silica Gel

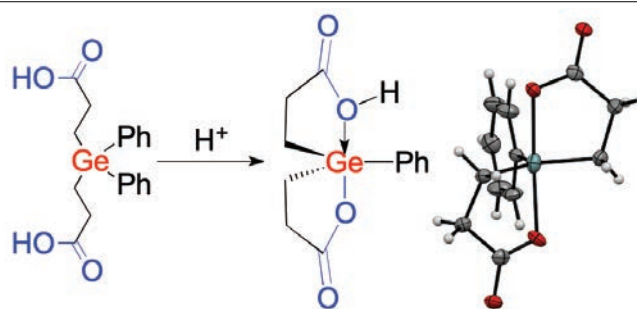
Kenichi Murai,* Shuji Miyazaki, and Hiromichi Fujioka*



Indole Diamine Nucleophilic Addition 2-Amino-1-nitroethene

465 Synthesis of a Pentacoordinate Germanium Compound Possessing a γ -Lactone and a Dative-Bonding Carboxylic Acid

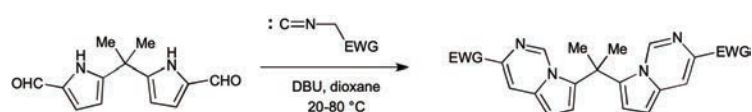
Hiroki Tanimoto,* Daiki Toumori, Tsumoru Morimoto, and Kiyomi Kakiuchi*



Germanium Hypercoordination

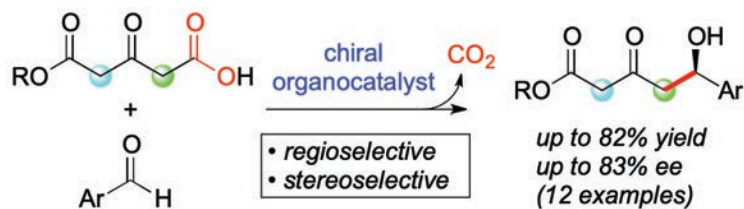
476 Synthesis of Pyrrolo[1,2-*c*]pyrimidines

Easha Narayan, Liangfeng Fu, and Gordon W. Gribble*


 Pyrrolo[1,2-*c*]pyrimidine TosMIC Ethyl Isocyanoacetate Pyrrole-2-carbaldehyde

484 Bifunctional-Benzothiadiazine-Catalyzed Regio- and Stereoselective Aldol Reactions Using a 1,3-Acetonedicarboxylic Acid Monoester

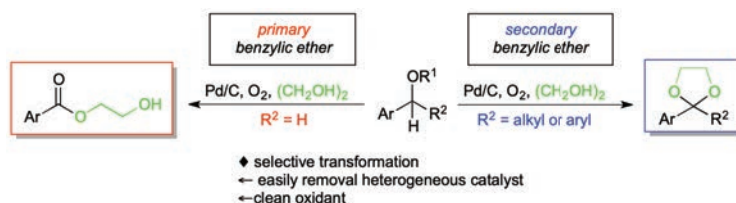
Yusuke Tokuhira, Noboru Hayama, Yusuke Kobayashi, and Yoshiji Takemoto*



Organocatalyst Atorvastatin Decarboxylation Biomimetic

494 Palladium on Carbon-Catalyzed Oxidative Transformation of Benzylic Ethers

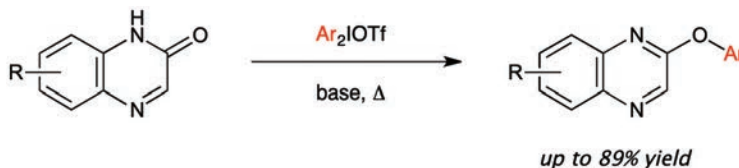
Ryoya Takakura, Shoko Kuwata, Kouki Nakano, Naoki Yasukawa, Hironao Sajiki,* and Yoshinari Sawama*



Acetal Palladium on Carbon Oxidation Benzylic Ether

502 Transition Metal-Free O-Arylation of Quinoxalin-2-ones with Diaryliodonium Salts

Masami Kuriyama,* Yuki Mochizuki, Tsubasa Miyagi, Kosuke Yamamoto, Yosuke Demizu, and Osamu Onomura*

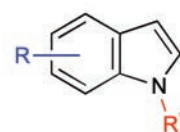


Transition Metal-Free Arylation Quinoxalin-2-one Diaryliodonium Salt

511 Design, Synthesis, Physical Properties and Indoleamine 2, 3-Dioxygenase 1 Inhibitory Activity of Substituted Indole Derivatives with N-H, N-Methoxymethyl, or N-Methylthiomethyl Group toward Fragment-Based Drug Discovery

Kenta Hayami, Yuichi Kuboki, Katsumi Ohta, Bangzhong Lin, Megumi Fumimoto, Kazuto Nunomura, Jun-Ichi Haruta, Kenichi Murai, Hiromichi Fujioaka, Akira Asai, and Mitsuhiro Arisawa*

Synthesis and function toward fragment-based drug discovery (FBDD)



$R = \text{alkyl, aryl, ester OH, CN, CH}_2\text{OH}$

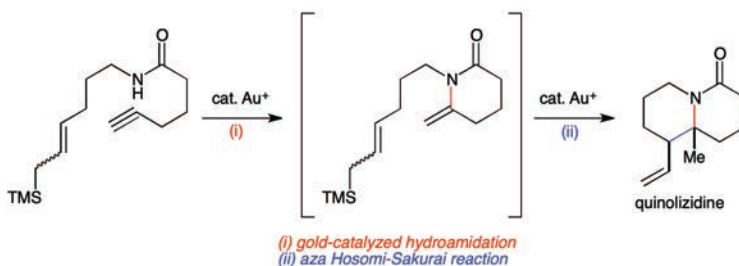
$R' = H, CH_2OMe, CH_2SMe$

- Indoleamine 2, 3-dioxygenase 1 (IDO1) inhibition
- Solubility
- Membrane permeability
- Docking study

Indole Indoleamine 2, 3-Dioxygenase 1 Solubility Membrane Permeability Docking Study

526 De Novo Approach to Izidines via a Gold-Catalyzed Hydroamination–N-Acyliminium Ion Cyclization of Acyclic Ynamides

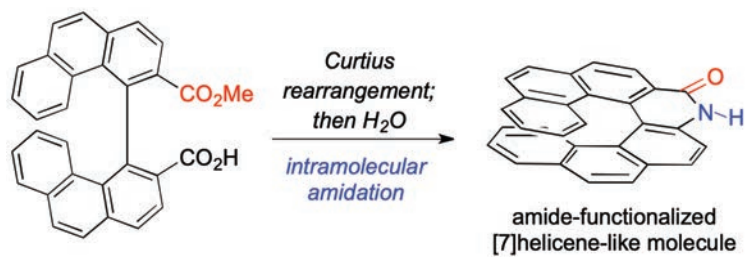
Kenji Sugimoto,* Shota Mizuno, Misaki Shirato, Kosuke Tanabe, and Yuji Matsuya*



Quinolizidine Indolizidine Domino Reaction Gold Catalyst

544 Concise Synthesis of an Amide-Functionalized [7]-Helicene-like Molecule via Intramolecular Amidation

Yongning Xing, Masanori Nikaido, Takuya Murai,
Shohei Hamada, Yusuke Kobayashi, Takahiro Sasamori,
Takeo Kawabata, and Takumi Furuta*



Helicene Amide Amidation

Contributors To This Issue

- 225 Abe, Tsukasa
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