## ■ FOREWORDS



## ■ CURRICULUM VITAE

## ■ SCIENTIFIC OEUVRE



## ■ PUBLICATIONS



## ■ CHEMICAL INFORMATION RETRIEVAL

## ■ REVIEWS

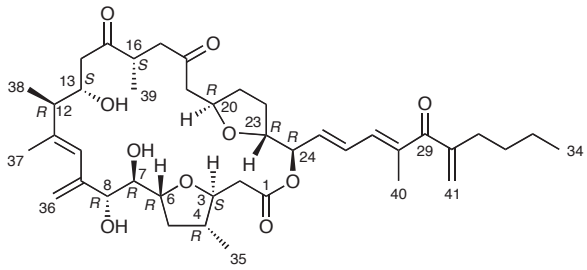


## ■ COMMUNICATIONS

## ■ PAPERS

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

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

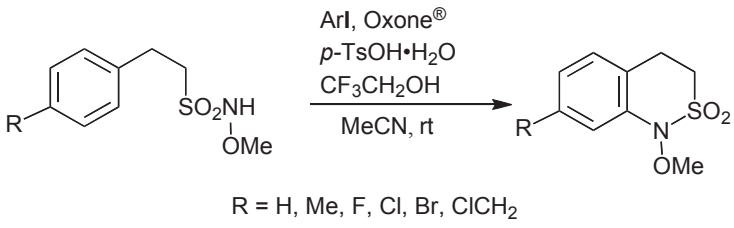


amphidinolide C3

Dinoflagellate *Amphidinium* species Macrolide Amphidinolide C3

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

Yoshihide Ishiwata, Yuhsuke Suzuki, and Hideo Togo*

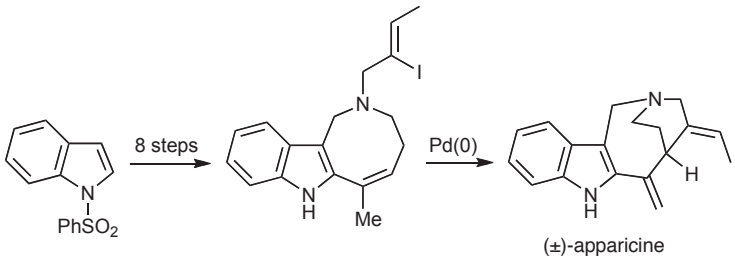


R = H, Me, F, Cl, Br, $ClCH_2$

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

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

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

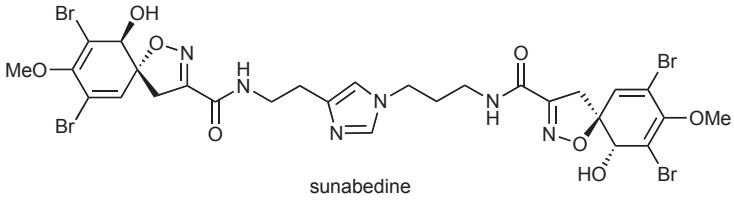


(±)-apparicine

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

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

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

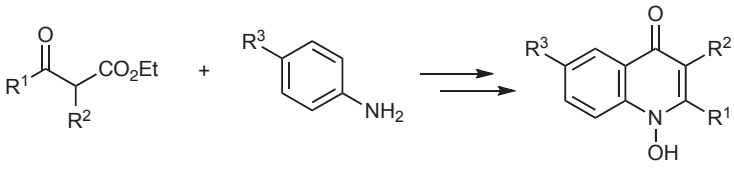


sunabedine

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

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

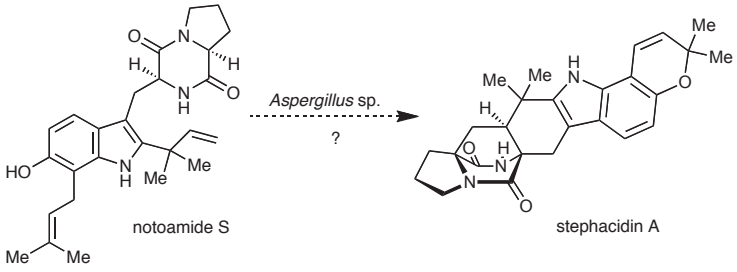
Lutz F. Tietze* and Ling Ma



Antimalaria Agent Ketoester Conrad-Limpach Cyclization Hydroxyquinolone Quinoline

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

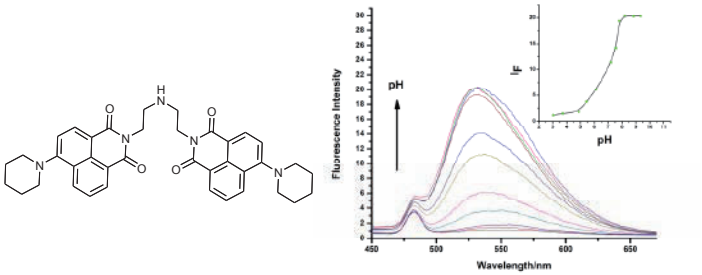
Timothy J. McAfoos, Shengying Li, Sachiko Tsukamoto, Daivd H. Sherman, and Robert M. Williams*




Stephacidins Notoamide Prenylated Indole Alkaloid Biosynthesis Fungal Metabolite

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

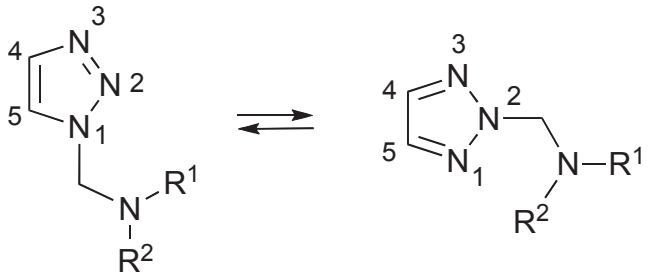
Hui Xu,* Huiling Dai, and Junqiang Ran




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

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

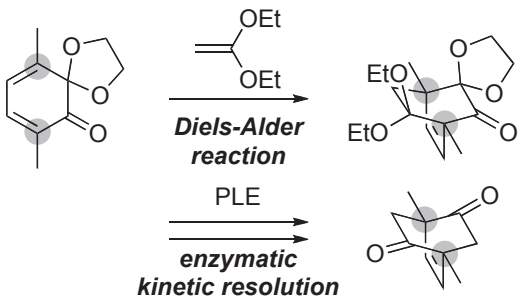
Alan R. Katritzky,* Ana-Maria Buciumas, Ekaterina Todadze, Munawar Ali Munawar, and Levan Khelashvili



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

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

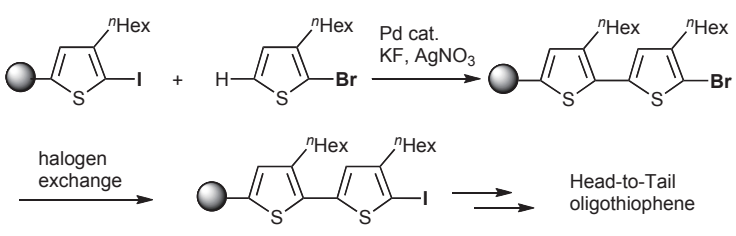
Masafumi Iwatsu, Daisuke Urabe, and Masayuki Inoue*




Total Synthesis Terpenoid Quaternary Carbon Diels-Alder Reaction Enzymatic Resolution

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

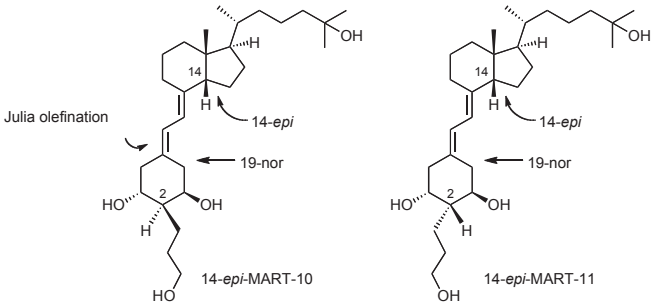
Shunsuke Tanba, Atsushi Sugie, Naoyuki Masuda, Daiki Monguchi, Nagatoshi Koumura, Kohjiro Hara, and Atsunori Mori*




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

649 **Studies on the Synthesis and Metabolism of 14-*epi*-2α-(3-Hydroxypropyl)-19-norvitamin $D_3$ and Its 2β-Isomer**

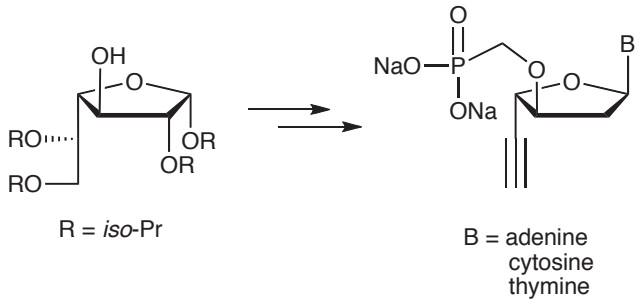
Atsushi Kittaka,* Hideki Hara, Kaori Yasuda, Masashi Takano, Midori A. Arai, Daisuke Sawada, Hiroshi Saito, Kazuya Takenouchi, Tai C. Chen, and Toshiyuki Sakaki*




Vitamin D Analog Metabolism Human CYP24A1 Vitamin D Receptor Julia Coupling

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

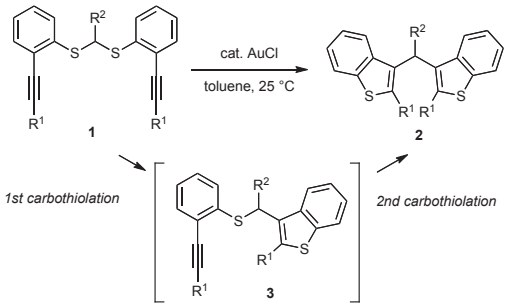
Michal Cesnek and Piet Herdewijn*




Phosphonate HIV PMDTT PMDTA Bestmann Modification

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

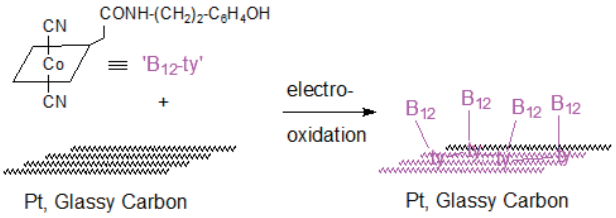
Itaru Nakamura,* Masashi Okamoto, Takuma Sato, and Masahiro Terada




Gold Catalyst Cyclization Benzothiophene Carbothiolation Alkyne

699 **Immobilisation of the Vitamin $B_{12}$ Derivative $B_{12}$-Tyramide on Electrode Surfaces**

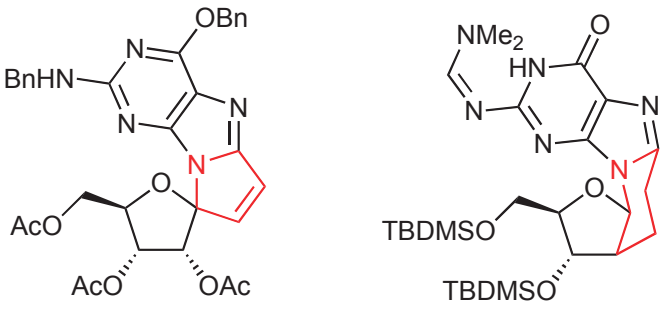
Luisa M. Abrantes, Jorge P. Correia, Ana M. Tenreiro, and Reinhart Keese*




Vitamin $B_{12}$ Derivative Electropolymerization Ellipsometry Catalysis Reduction

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

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

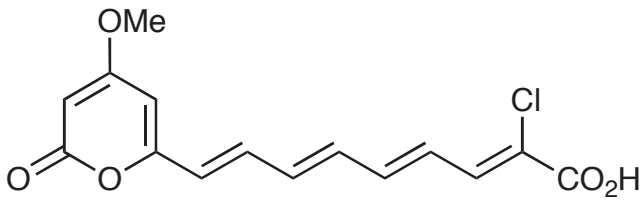


Conformation Nucleoside Nucleosidation Radical Cyclization Z-DNA

■ **NOTES**

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

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

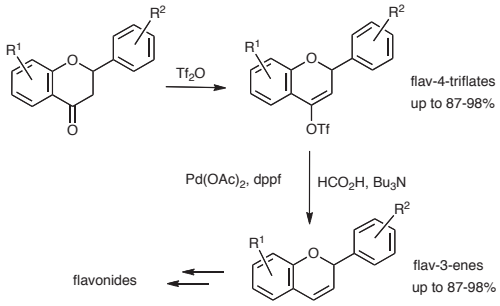



dehydrofuligoic acid

Myxomycete Pigment Pyrone

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

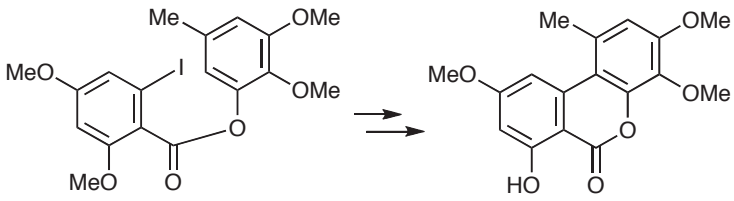
Yoshihito Kohari, Yukio Hoshino, Haruo Matsuyama, and Hiroto Nakano*




Flavonide Flav-3-ene Reductive Elimination

**851** **Synthesis of Graphislactone H**

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

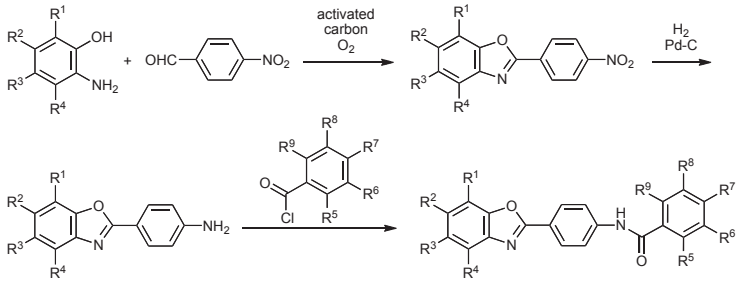



graphislactone H

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

**857** **Simple Three Steps Synthesis of Potential Medicine for Metabolic Syndrome**

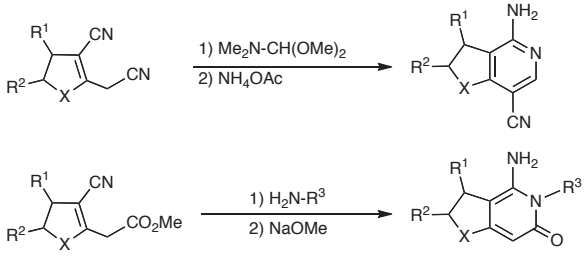
Kazuhiro Adachi, Kyosuke Michigami, and Masahiko Hayashi*




2-Arylbenzoxazole Activated Carbon Oxidative Aromatization Hydrogenation Amidation

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

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

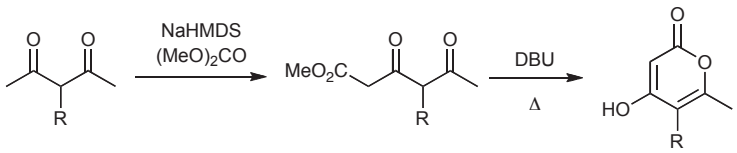



X = O, S; $R^1$ = H, Ph; $R^2$ = H, Ph, Me; $R^3$ = H, $CH_2Ph$

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

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

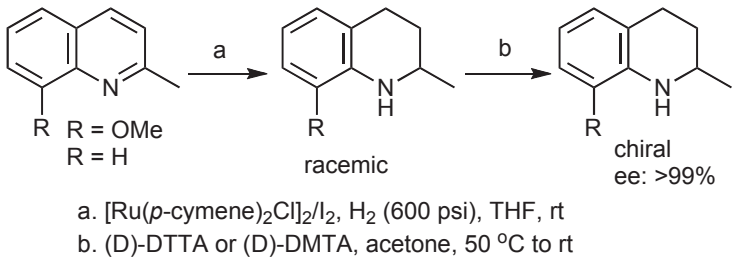
Masahiro Yoshida,* Hironobu Takai, Chika Mitsuhashi, and Kozo Shishido*




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

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

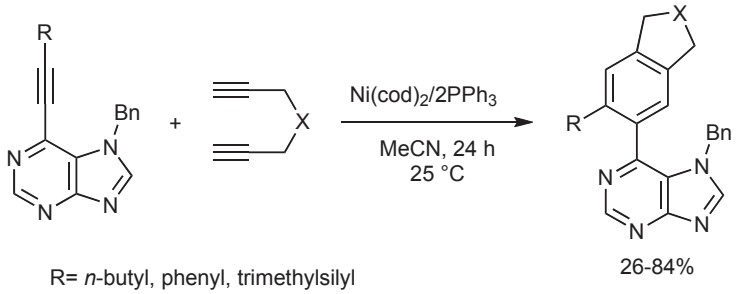
Jie Tang, Guo-Fang Jiang,* and Yong-Gui Zhou*




Chemical Resolution Hydrogenation Chiral Tetrahydroquinoline

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

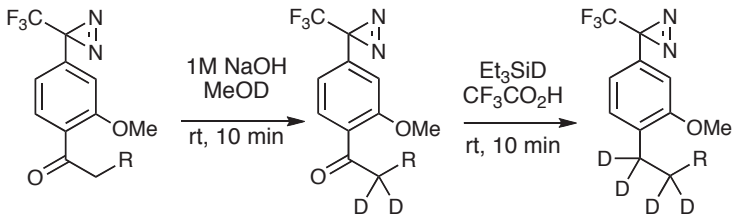
Stanislav Opekar, Pavel Turek, Radek Pohl, Blanka Klepetářová, Ivan Votruba, Michal Hocek,* and Martin Kotora*




Cyclotrimerization Purine Alkyne Nickel Catalysis

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

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




Photoaffinity Labeling Diazirine Deuterium H/D Exchange Mass Spectrometry

# Contributors To This Issue