



# Contents

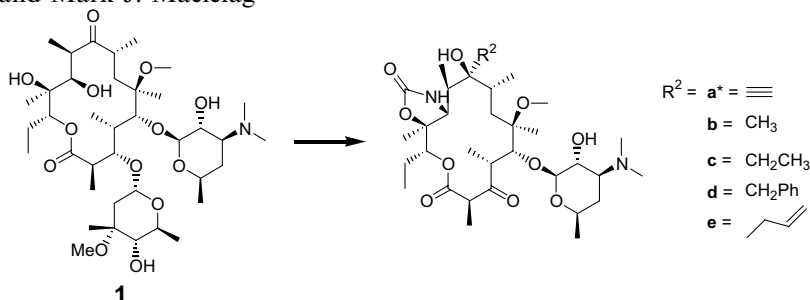
## COMMUNICATIONS

## The synthesis of (9*S*)-9-alkyl-9-hydroxyerythromycin A derivatives and their ketolides

**pp 2731–2735**

Eugene B. Grant,\* Jesse M. Weiss, Shawn Branum, Stuart Hayden, Sigmond Johnson, Deodialsingh Guiadeen, William V. Murray and Mark J. Macielag

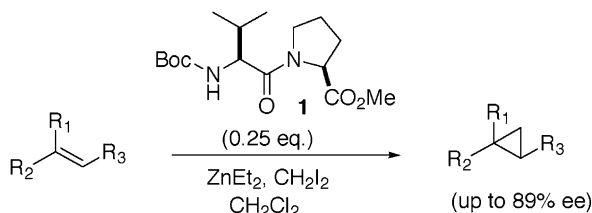
A short, concise synthesis of novel (9*S*)-9-alkyl-9-hydroxyerythromycin A derivatives and their corresponding ketolides, from clarithromycin (**1**) is described.



## Catalytic asymmetric Simmons–Smith cyclopropanation of unfunctionalized olefins

**pp 2737–2740**

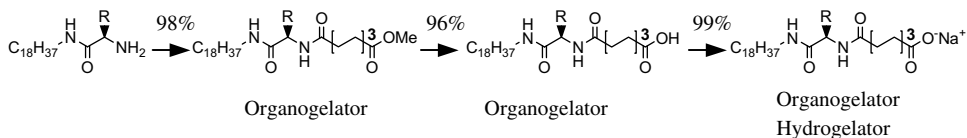
Jiang Long, Haifeng Du, Kai Li and Yian Shi\*



## New low-molecular weight gelators based on L-valine and L-isoleucine with various terminal groups

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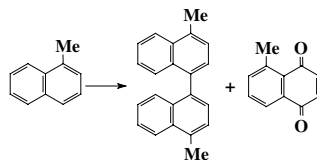
Masahiro Suzuki,\* Teruaki Sato, Akio Kurose, Hirofusa Shirai and Kenji Hanabusa



**Reactivity of electrochemically generated radical cations of alkylnaphthalenes interpreted by AM1 calculations**

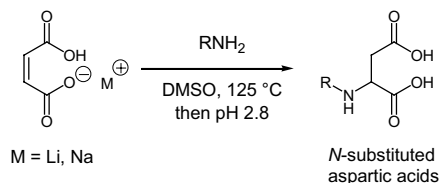
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Roman Edmund Sioda\* and Barbara Frankowska


**Direct synthesis of *N*-substituted, functionalized aspartic acids using alkali maleates and amines**

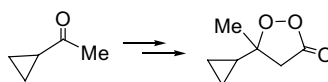
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Peter S. Piispanen and Petri M. Pihko\*


**Synthesis of  $\beta$ -peroxy-lactones using 30% H<sub>2</sub>O<sub>2</sub>**

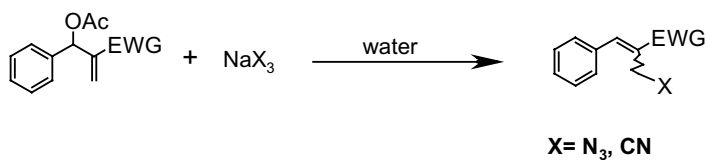
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Chandan Singh,\* Naveen Chandra Srivastav, Nisha Srivastava and Sunil K. Puri


**Nucleophilic displacement by azide and cyanide on Baylis–Hillman acetates in water**

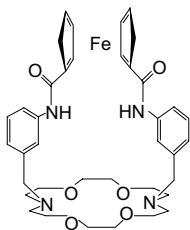
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J. S. Yadav,\* Manoj Kumar Gupta, Sushil Kumar Pandey, B. V. S. Reddy and A. V. S. Sarma

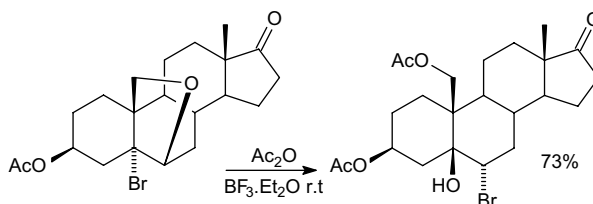


**A new heteroditopic receptor and sensor highly selective for bromide in the presence of a bound cation** pp 2765–2769

Chomchai Suksai, Punnee Leeladee, Disyaphong Jainuknan, Thawatchai Tuntulani,\*  
Nongnuch Muangsin, Orawon Chailapakul, Palangpol Kongsaree and Chavang Pakavatchai

**Reaction of a 5 $\alpha$ -bromo-6 $\beta$ ,19-epoxysteroid with BF<sub>3</sub>·Et<sub>2</sub>O/Ac<sub>2</sub>O. An evidence of a cyclic bromonium cation** pp 2771–2774

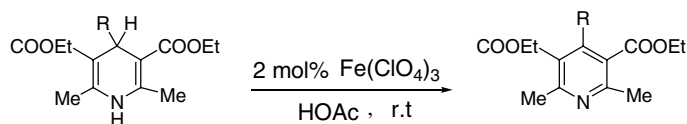
Martín A. Iglesias-Arteaga,\* Fanny L. Ledesma-Rodríguez, José M. Méndez-Stivalet and Marcos Flores-Alamo



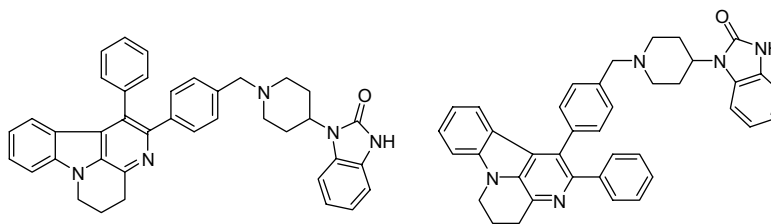
Reaction of 3 $\beta$ -acetoxy-5-bromo-6 $\beta$ ,19-epoxy-5 $\alpha$ -androstan-17-one with Ac<sub>2</sub>O and BF<sub>3</sub>·Et<sub>2</sub>O afforded the rearranged 3 $\beta$ ,19-diacetoxy-6 $\alpha$ -bromo-5-hydroxy-5 $\beta$ -androst-17-one in high yield.

**Catalytic aromatization of Hantzsch 1,4-dihydropyridines by ferric perchlorate in acetic acid** pp 2775–2777

Majid M. Heravi,\* Farahnaz K. Behbahani, Hossien A. Oskooie and Rahim Hekmat Shoar

**Synthesis and biological evaluation of unnatural canthine alkaloids** pp 2779–2782

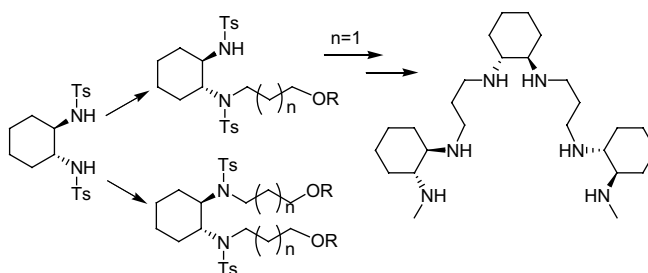
Craig W. Lindsley,\* Michael J. Bogusky, William H. Leister, Ray T. McClain, Ronald G. Robinson, Stanley F. Barnett, Deborah Defeo-Jones, Charles W. Ross, III and George D. Hartman



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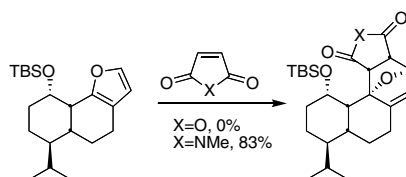
Carmen Peña, Ignacio Alfonso, Nicolas H. Voelcker and Vicente Gotor\*



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Jeffrey B. Sperry, Jasmine R. Constanzo, Jerry Jasinski, Ray J. Butcher and Dennis L. Wright\*

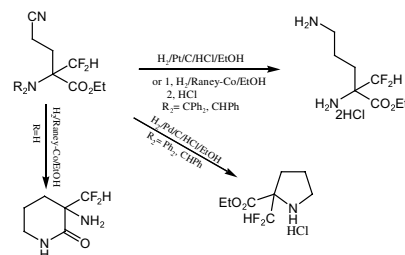


### Catalytic hydrogenation of ethyl 2-amino-2-difluoromethyl-4-cyanobutanoate and its Schiff base reaction modes

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Jingyang Zhu,\* Benjamin A. Price, Jonathan Walker and Shannon X. Zhao

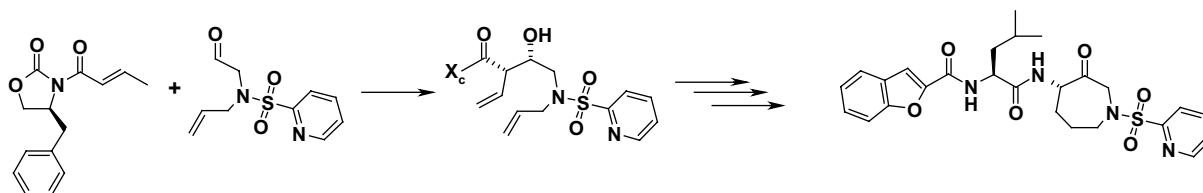
Under heterogeneous catalysis, ethyl 2-amino-2-difluoromethyl-4-cyanobutanoate or its Schiff base could be selectively reduced in good yield by hydrogenation to give a diamine, or to form a five-membered ring or a six-membered ring heterocycles. This selectivity is highly dependent on the type of catalysts used.



### Asymmetric synthesis of a potent azepanone-based inhibitor of the cysteine protease cathepsin K

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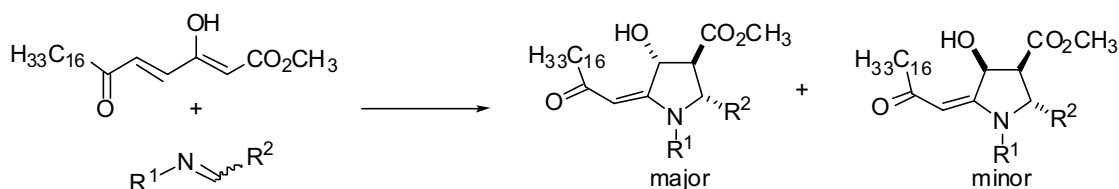
Robert E. Lee Trout and Robert W. Marquis\*



**A synthetic approach to the plakoridines modeled on a biogenetic theory**

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Laura L. Etchells, Ali Sardarian and Roger C. Whitehead\*

**Synthesis of sterically hindered tris(4-imidazolyl)carbinol ligands and their copper(I) complexes related to metalloenzymes**

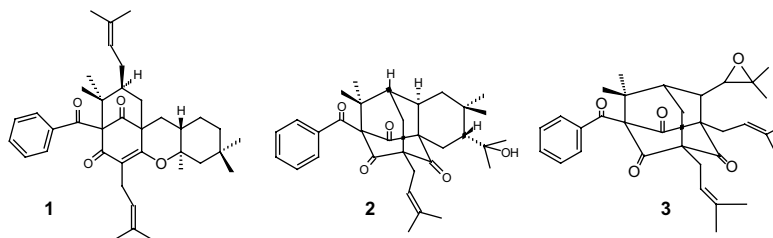
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Masato Kujime and Hiroshi Fujii\*

**Polyisoprenylated benzophenone derivatives from *Clusia obdeltifolia***

pp 2813–2816

Josanaide Sant'Ana Ribeiro Teixeira and Frederico Guaré Cruz\*

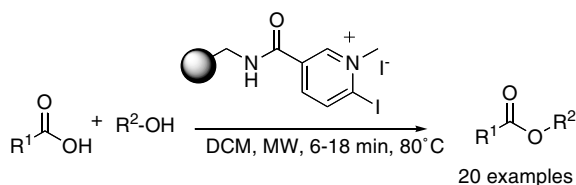


Two new polyisoprenylated benzophenones, **1** and **2**, along with the known compound 28,29-Epoxyplukenetione A were isolated from the hexane extract of *Clusia obdeltifolia*. Their structures were established by careful spectroscopic analysis.

**A rapid microwave-assisted esterification utilizing the Mukaiyama supported reagent**

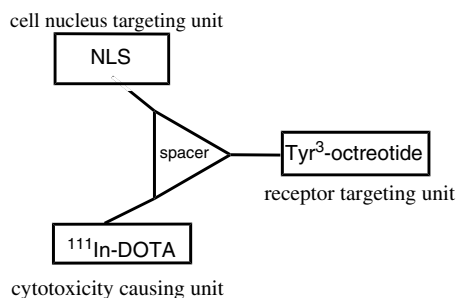
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Donato Donati, Costanza Morelli and Maurizio Taddei\*



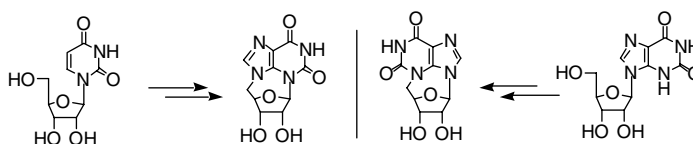
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Mihaela Ginja and Helmut R. Maecke\*



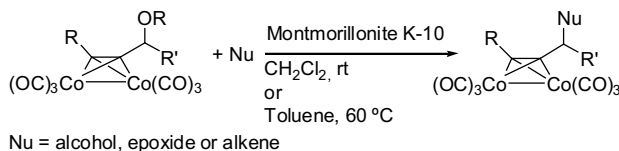
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Byoung-Kwon Chun,\* Peiyuan Wang, Abdalla Hassan, Jinfa Du, Phillip M. Tharnish, Lieven J. Stuyver, Michael J. Otto, Raymond F. Schinazi and Kyoichi A. Watanabe



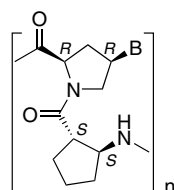
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Fernando R. Pinacho Crisóstomo, Romen Carrillo, Tomás Martín and Víctor S. Martín\*



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Chaturong Suparpprom, Choladda Srisuwannaket, Polkit Sangvanich and Tirayut Vilaivan\*

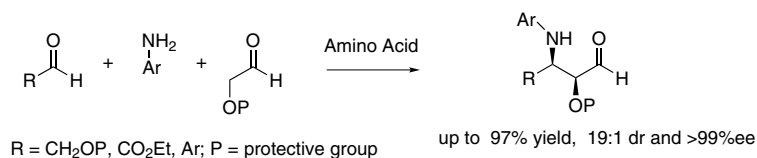


A series of novel conformationally rigid pyrrolidinyl peptide nucleic acids (PNA) based on D-prolyl-2-aminocyclopentanecarboxylic acid (ACPC) backbones was synthesized and the DNA binding properties of these PNAs studied. The PNA containing (1*S*,2*S*)-ACPC can form a very stable 1:1 complex with complementary DNA in a sequence-specific manner.

**Amino acid-catalyzed direct enantioselective synthesis of  $\beta$ -amino- $\alpha$ -oxyaldehydes**

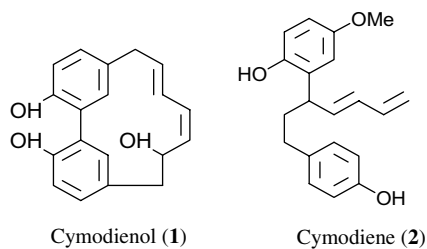
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Ismail Ibrahim and Armando Córdova\*

**Cymodienol and cymodiene: new cytotoxic diarylheptanoids from the sea grass *Cymodocea nodosa***

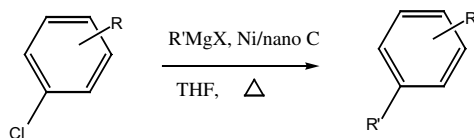
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Ioanna Kontiza, Constantinos Vagias, Jasmin Jakupovic, Dimitri Moreau, Christos Roussakis and Vassilios Roussis\*

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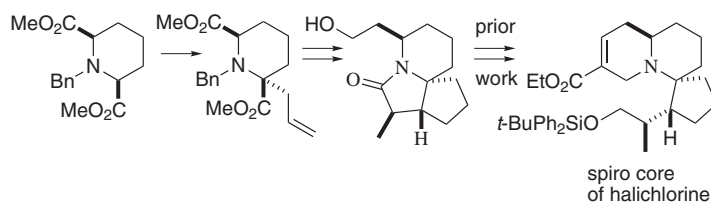
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Sun Young Park, Min Kang, Jae Eui Yie, Ji Man Kim and Ik-Mo Lee\*

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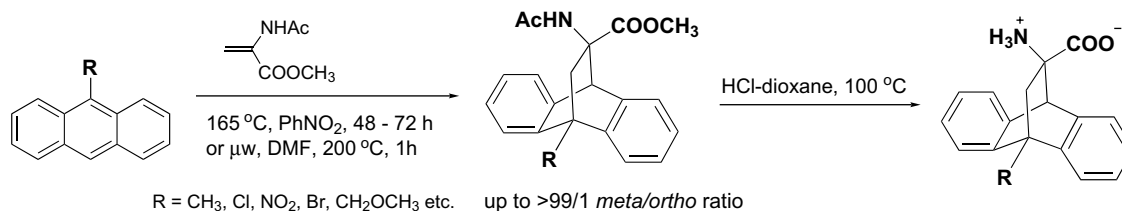
Derrick L. J. Clive,\* Jian Wang and Maolin Yu



**Highly regioselective Diels–Alder reactions of 9-substituted anthracenes and 2-acetamidoacrylate: synthesis of conformationally constrained  $\alpha$ -amino acids**

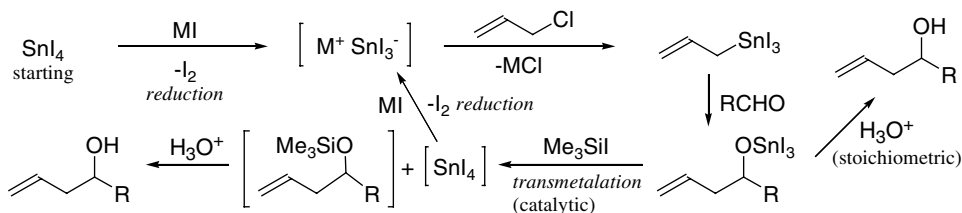
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Bingwei V. Yang\* and Lidia M. Doweyko


**Carbonyl allylations by allylic chlorides utilizing a reduction of tin(IV) iodide to triiodostannate(II) species with iodide sources**

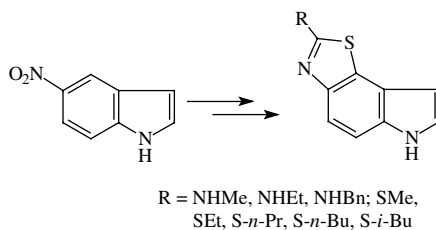
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Yoshiro Masuyama,\* Kaori Takeuchi and Yasuhiko Kurusu


**An expedient, regioselective synthesis of 2-alkylamino- and 2-alkylthiothiazolo[5,4-*e*]indoles**

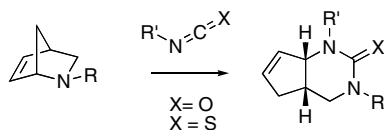
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Manas Chakrabarty,\* Taraknath Kundu, Shiho Arima and Yoshihiro Harigaya


**Synthesis of highly substituted ureas and thioureas through 1,3-diaza-Claisen rearrangements**

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Amy M. Bowser and José S. Madalengoitia\*

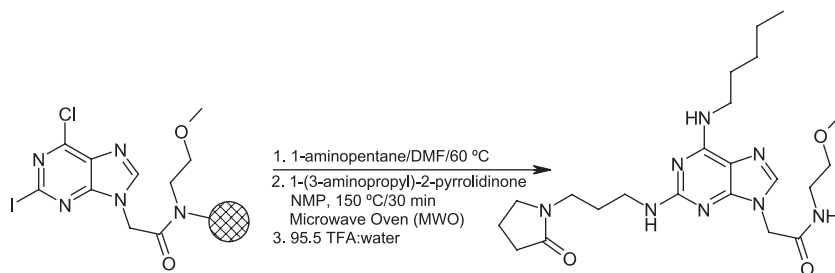




**Microwave assisted solid-phase synthesis of trisubstituted 2-(2,6-purin-9-yl)acetamides**

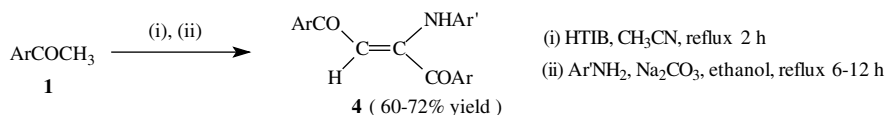
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Richard E. Austin, Christian Waldruff and Fahad Al-Obeidi\*

**Use of [hydroxy(tosyloxy)iodo]benzene in a novel and facile synthesis of 1,4-diaryl-2-(arylamino)but-2-ene-1,4-diones**

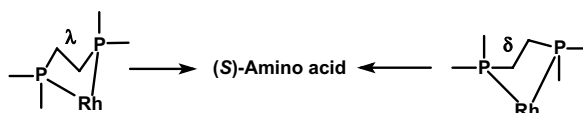
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Om Prakash,\* Anita Batra, Vishwas Chaudhri and Richa Prakash

**Evidence for the importance of conformational equilibria in Rh-diphosphine complexes for the enantioselection in Rh-catalyzed asymmetric hydrogenation**

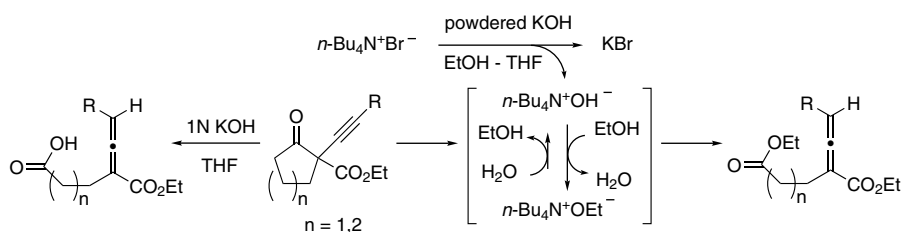
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Hideyuki Tsuruta, Tsuneo Imamoto,\* Kentaro Yamaguchi and Ilya D. Gridnev\*

**Facile generation method for conjugated allenyl esters based on retro-Dieckmann-type ring-opening reactions**

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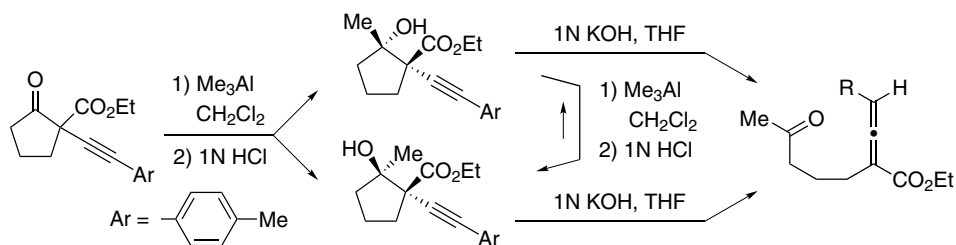
Shigeki Sano, Hisashi Shimizu and Yoshimitsu Nagao\*



**Trimethylaluminium-induced diastereoselective methylation onto ethyl 2-oxocyclopentane-1-carboxylate and isomerization between the dimethylaluminium-alkoxide products**

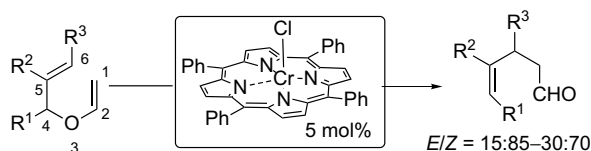
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Shigeki Sano, Hisashi Shimizu and Yoshimitsu Nagao\*


**Metalloporphyrin Cr(TPP)Cl-catalyzed Claisen rearrangement of simple aliphatic allyl vinyl ethers and its unique stereoselectivity**

pp 2893–2896

Toshikatsu Takanami, Mikiko Hayashi and Kohji Suda\*

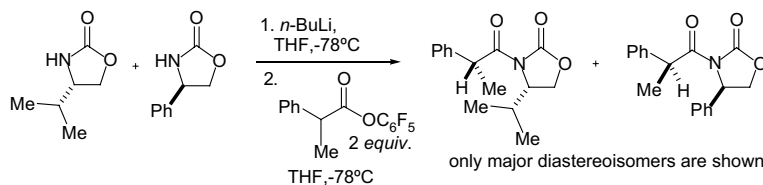


Cr(TPP)Cl significantly enhances reversal of *E*–*Z* selectivity in the thermal Claisen rearrangement of allyl vinyl ethers, especially, 4,5- and 4,6-disubstituted derivatives, at low catalyst loading.


**Efficient parallel resolution of an active ester of 2-phenylpropionic acid using quasi-enantiomeric Evans' oxazolidinones**

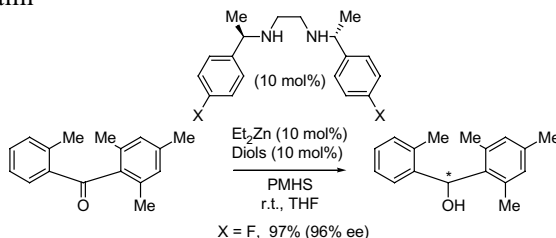
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Gregory S. Coumbarides, Marco Dingjan, Jason Eames,\* Anthony Flinn, Julian Northen and Yonas Yohannes


**Asymmetric reduction of *ortho*-multisubstituted benzophenones catalyzed by diamine–Zn–diol complexes**

pp 2903–2906

Hiroyuki Ushio and Koichi Mikami\*

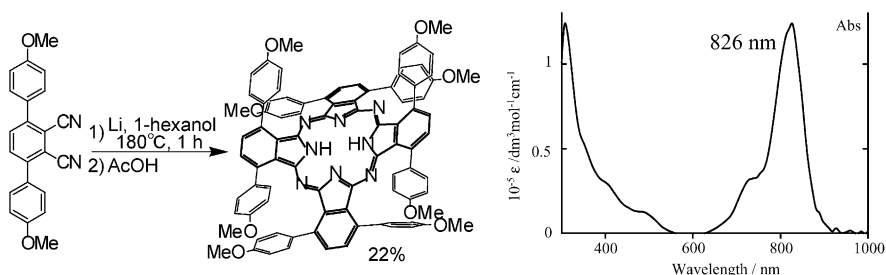


The asymmetric reduction of benzophenones multisubstituted at the *ortho*-positions was achieved via hydrosilylation catalyzed by in situ generated chiral diamine–Zn–diol complexes under mild conditions, wherein polymethylhydrosiloxane (PMHS) served as a safe and inexpensive source of hydride.

**Non-planar phthalocyanines with Q-bands beyond 800 nm**

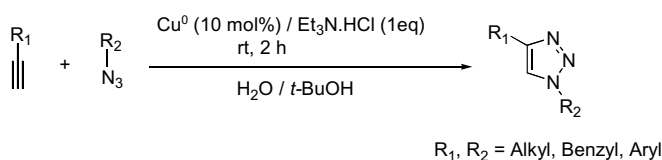
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Takamitsu Fukuda, Terumi Ishiguro and Nagao Kobayashi\*

**Regioselective synthesis of [1,2,3]-triazoles catalyzed by Cu(I) generated in situ from Cu(0) nanosize activated powder and amine hydrochloride salts**

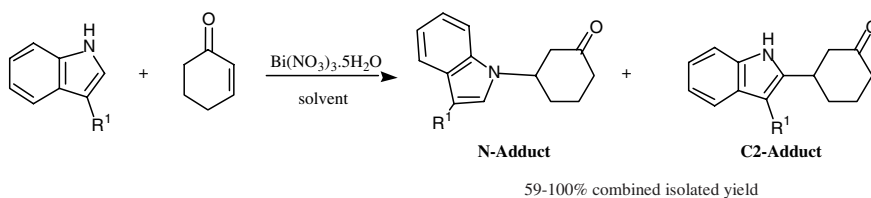
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Hernán A. Orgueira,\* Demosthenes Fokas, Yuko Isome, Philip C.-M. Chan and Carmen M. Baldino

**Regioselective *N*- and C2-electrophilic substitution of 3-substituted indoles**

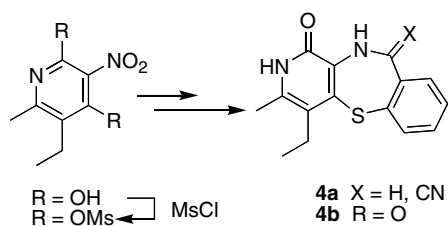
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Sarah Leitch,\* Jennifer Addison-Jones and Adam McCluskey\*

**Tosylation/mesylation of 4-hydroxy-3-nitro-2-pyridinones as an activation step in the construction of dihydropyrido[3,4-*b*]benzo[*f*][1,4]thiazepin-1-one based anti-HIV agents**

pp 2919–2922

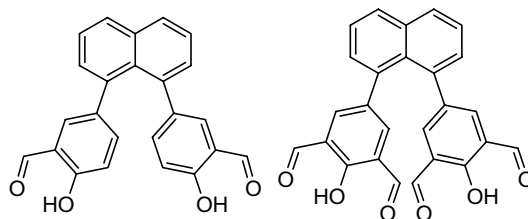
Pierre Storck, Anne-Marie Aubertin and David S. Grierson\*



**Pillared salicylaldehyde derivatives as building blocks for the design of cofacial salen-type ligands**

pp 2923–2926

Laurent Sabater, Regis Guillot and Ally Aukauloo\*

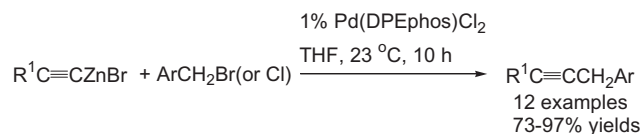


Cofacial salicylaldehyde derivatives have been synthesized for the design of face to face multimetallic complexes.

**Palladium-catalyzed cross-coupling reaction of alkynylzincs with benzylic electrophiles**

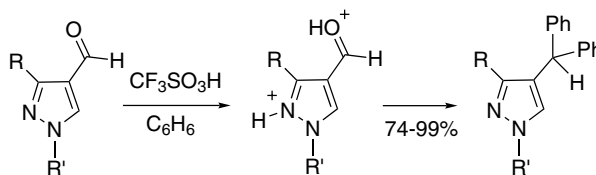
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Mingxing Qian and Ei-ichi Negishi\*

**Superacid-promoted reactions of pyrazolecarboxaldehydes and the role of dicationic electrophiles**

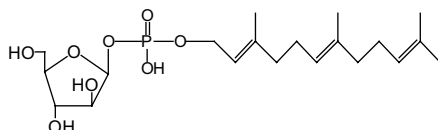
pp 2931–2935

Douglas A. Klumpp,\* Patrick J. Kindelin and Ang Li

**Stereoselective synthesis of farnesylphosphoryl  $\beta$ -D-arabinofuranose**

pp 2937–2939

Avraham Liav\* and Patrick J. Brennan

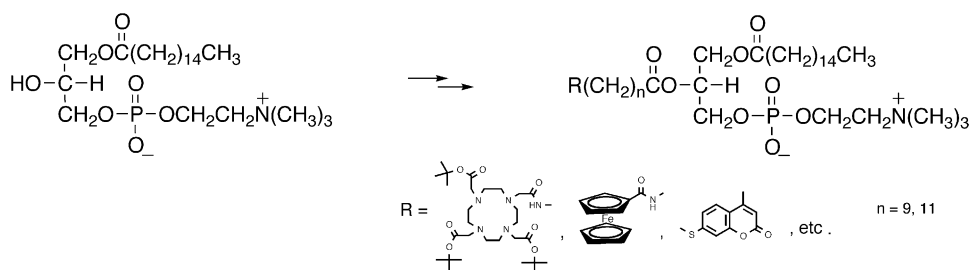


The title product was synthesized by coupling the trichloroacetimidate derivative of *trans,trans*-farnesol to a suitably protected  $\beta$ -D-arabinofuranosyl phosphate.

# A rapid and efficient method for migration-free acylation of lysophospholipids: synthesis of phosphatidylcholines with *sn*-2-chain-terminal reporter groups

pp 2941–2944

Renato Rosseto and Joseph Hajdu\*



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\*Corresponding author

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