

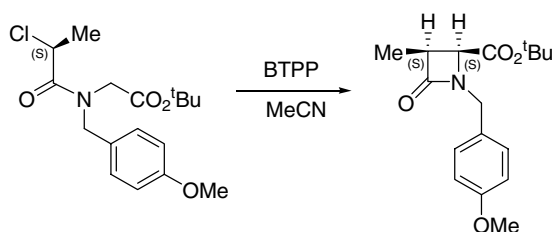
Contents

COMMUNICATIONS

From theoretical calculations to the enantioselective synthesis of a 1,3,4-trisubstituted Gly-derived 2-azetidinone

pp 215–218

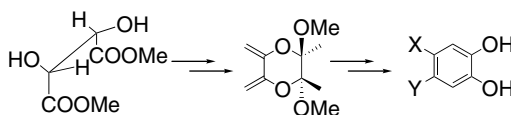
Paula Pérez-Faginas, Ibon Alkorta, M. Teresa García-López, Rosario González-Muñiz \*



Reactive diene for synthesis of substituted catechols

pp 219–221

Benjamin J. Compton, David S. Larsen, Lesley Larsen, Rex T. Weavers \*



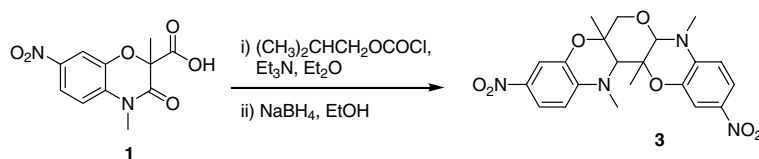
A new 5,6-dimethylene-1,4-dioxane has proven to be a very reactive diene in Diels–Alder reactions. Reaction with acetylenic dienophiles provides a route to substituted catechols.



A pentacyclic condensation product from 2,4-dimethyl-7-nitro-3-oxo-3,4-dihydro-2H-1,4-benzoxazine-2-carboxylic acid

pp 222–225

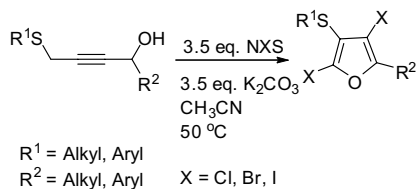
Janez Ilaš, Nina Lah, Ivan Leban and Danijel Kikelj\*



### Electrophilic cyclization of 4-thio-but-2-yn-1-ols via 1,2-migration of the thio group: efficient synthesis of 2,4-dihalo-3-thio-substituted furans

pp 226–228

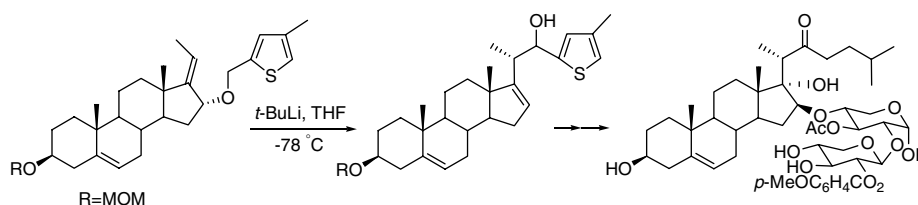
Hongwei Zhou\*, Jinzhong Yao, Guoliang Liu



### A new synthesis of potent antitumor saponin OSW-1 via Wittig rearrangement

pp 229–232

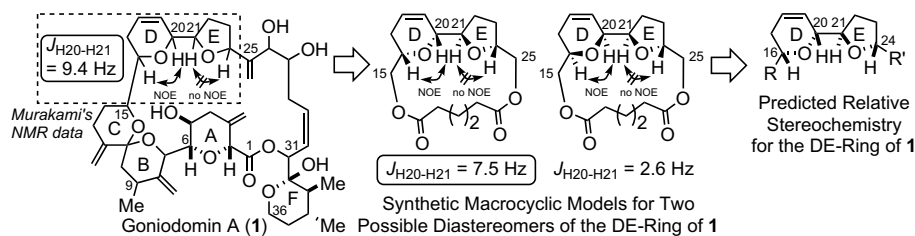
Masayoshi Tsubuki\*, Sohichiro Matsuo, Toshio Honda\*



### Synthesis of the DE-ring of goniodomine A and prediction of its natural relative stereochemistry

pp 233–237

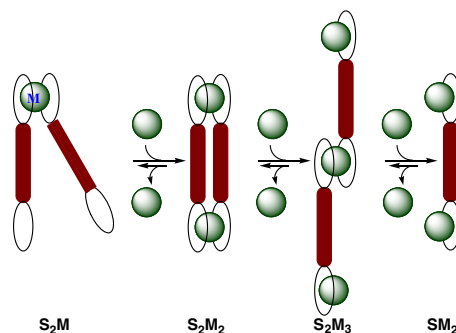
Takahiro Katagiri, Kenshu Fujiwara\*, Hidetoshi Kawai, Takanori Suzuki



### Synthesis and metal-binding studies of a novel pyrene discotic

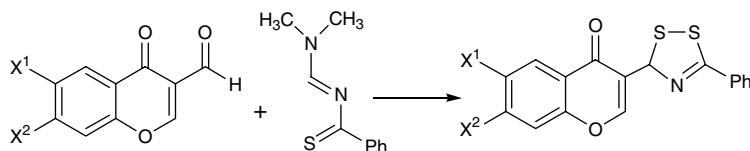
pp 238–242

Fadi M. Jradi, Mohammad H. Al-Sayah\* and Bilal R. Kaafarani\*

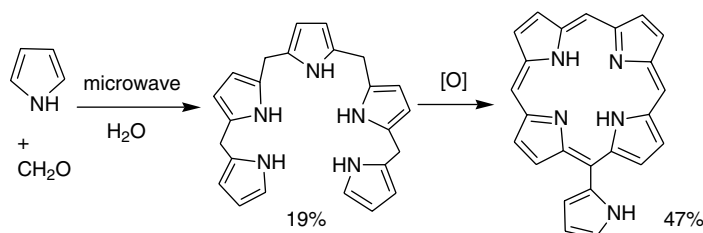


**Unusual conversion of substituted-3-formylchromones to 3-(5-phenyl-3*H*-[1,2,4]dithiazol-3-yl)chromen-4-ones: a facile and efficient route to novel 1,2,4-dithiazoles** pp 243–246

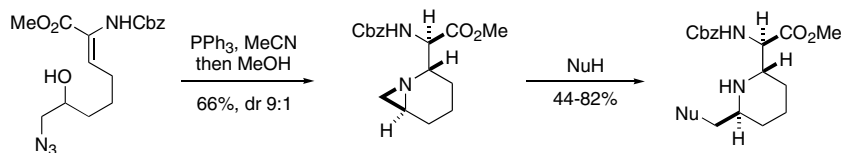
Tilak Raj, M. P. S. Ishar,\* Vivek Gupta, Ajay Pal Singh Pannu, Priyanka Kanwal and Gurbinder Singh

**Microwave-assisted synthesis of non-substituted tripyrrane, tetrapyrane and pentapyrrane** pp 247–249

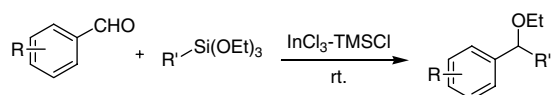
Irena Saltsman and Zeev Gross\*

**Stereocontrolled approach to 1-azabicyclo[4.1.0]heptanes: application to the synthesis of *trans*-2,6-disubstituted piperidines** pp 250–252

Emma L. Wynne, Guy J. Clarkson and Michael Shipman\*

**Highly efficient indium-catalyzed chemoselective allylation–etherification and reductive etherification of aromatic aldehydes with functional silanes** pp 253–256

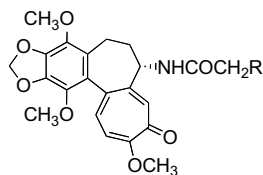
Ming-Song Yang, Li-Wen Xu,\* Hua-Yu Qiu, Guo-Qiao Lai\* and Jian-Xiong Jiang



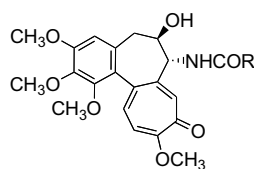
Four new colchicinoids, gloriosamines A–D, from *Gloriosa rothschildiana*

pp 257–260

Mariko Kitajima, Akiko Tanaka, Noriyuki Kogure and Hiromitsu Takayama\*



Gloriosamine A: R=H  
Gloriosamine B: R=OH

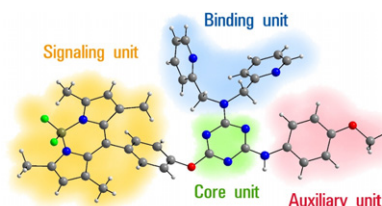


Gloriosamine C: R=CH<sub>2</sub>OH  
Gloriosamine D: R=H

## New BODIPY–triazine based tripod fluorescent systems

pp 261–264

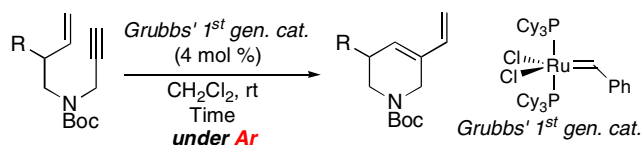
Xin Qi, Sook Kyung Kim, Su Jung Han, Li Xu, Ah Young Jee, Ha Na Kim, Chongmok Lee, Youngmee Kim, Minyung Lee, Sung-Jin Kim and Juyoung Yoon\*



## Acceleration effect of allylic hydroxy group on ring-closing enyne metathesis of terminal alkynes: scope and application to the synthesis of isofagomine

pp 265–268

Tatsushi Imahori\*, Hidetomo Ojima, Hiroki Tateyama, Yukiko Mihara, Hiroki Takahata\*



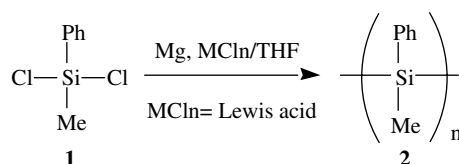
Reaction rate: R= OH >> H, OBn, OTBDPS

An allylic hydroxy group on enyne substrates accelerates ring-closing enyne metathesis of terminal alkynes.

## Practical method for the synthesis of polysilanes using Mg and Lewis acid system

pp 269–271

Shigenori Kashimura\*, Yoshiyuki Tane, Manabu Ishifune, Yoshihiro Murai, Sho Hashimoto, Tomohiro Nakai, Ryuich Hirose and Hiroaki Murase\*

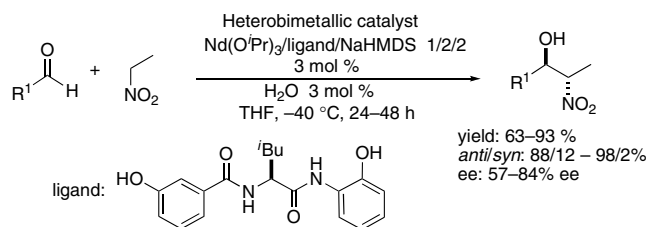


Reduction of dichlorosilanes with Mg metal in the presence of Lewis acid and LiCl was found to be a highly practical method for the synthesis of polysilanes.

**A catalytic asymmetric *anti*-selective nitroaldol reaction with a neodymium–sodium heterobimetallic complex**

pp 272–276

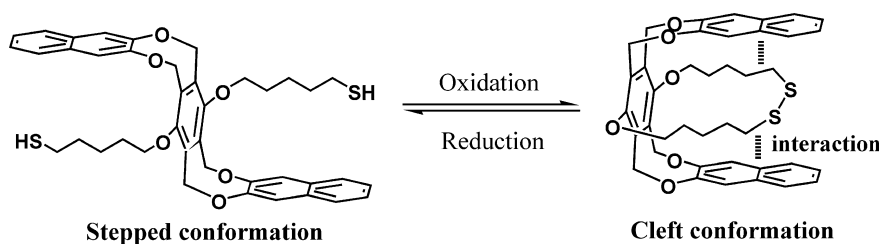
Tatsuya Nitabarū, Naoya Kumagai\* and Masakatsu Shibasaki\*



**Conformational control of molecular tweezers containing a disulfide bond by redox reactions**

pp 277–280

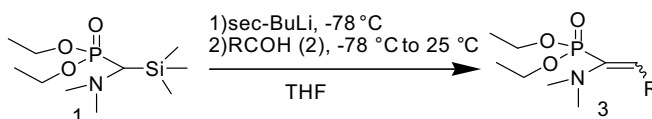
Hajime Iwamoto,\* Yusuke Hidaka and Yoshimasa Fukazawa



**An improved synthesis of  $\alpha$ -phosphoenamines based on a modified Peterson olefination**

pp 281–285

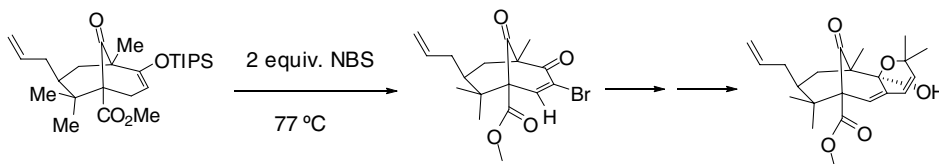
James McNulty,\* Priyabrata Das and Don Gosciniaĳ



**Progress towards the synthesis of papuaforin A: selective formation of  $\alpha$ -bromoenones from silyl enol ethers**

pp 286–288

George A. Kraus\* and Insik Jeon

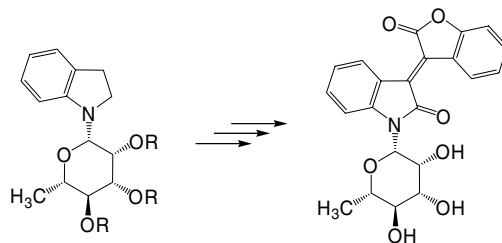


The selective one-pot conversion of enol silyl ethers into  $\alpha$ -bromo enones allows a direct preparation of a tricyclic intermediate to papuaforin A.

**First synthesis of oxa-analogous isoindigo-*N*-glycosides**

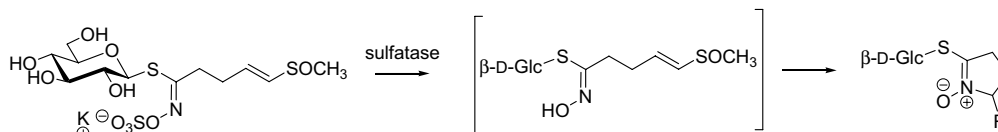
pp 289–291

Stefanie Libnow, Martin Hein and Peter Langer\*

**Thio-functionalised glucosinolates: unexpected transformation of desulfoglucoraphenin**

pp 292–295

Renato Iori, Jessica Barillari, Estelle Gallienne, Cristina Bilardo, Arnaud Tatibouët and Patrick Rollin\*

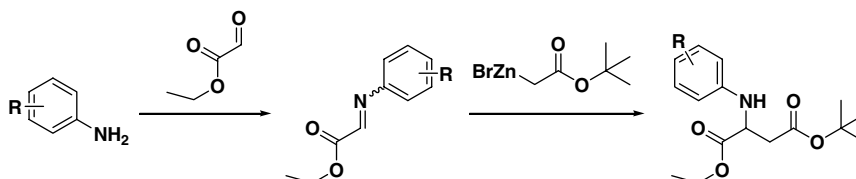


Enzymatic desulfation of stable glucoraphenin affords desulfoglucoraphenin, which unexpectedly undergoes further transformations into cyclic nitronium-type derivatives.

**An efficient synthesis of *N*-arylated, orthogonally protected racemic aspartates**

pp 296–299

Guanglin Luo,\* Ling Chen, Rita Civiello and Gene M. Dubowchik

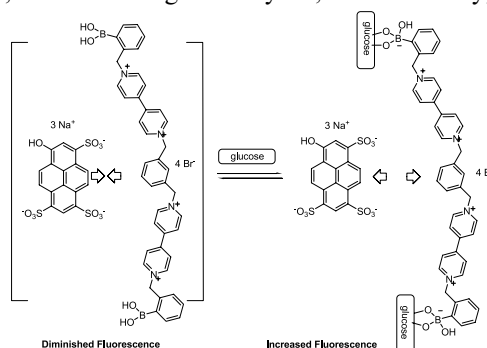


A brief and efficient synthesis of various *N*-arylated racemic aspartates has been achieved by two consecutive reactions in one-pot, in which imine or equivalent, formed in situ from various anilines and ethyl glyoxylate, reacted with the Reformatsky reagent, *tert*-butyl 2-bromozinc acetate. Notably the two esters are orthogonally protected for the convenience of further derivatization.

**Boronic acid-appended bis-viologens as a new family of viologen quenchers for glucose sensing**

pp 300–304

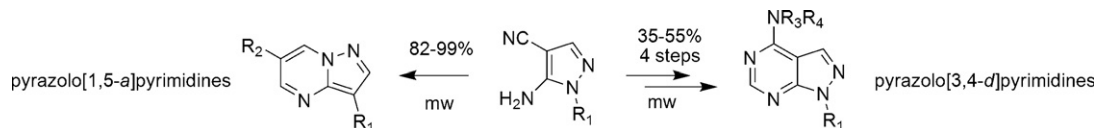
Zachary Sharrett, Soya Gamsey, Paul Levine, Dan Cunningham-Bryant, Boaz Vilozny, Alexander Schiller, Ritchie A. Wessling and Bakthan Singaram\*



**Microwave-assisted protocols for the expedited synthesis of pyrazolo[1,5-*a*] and [3,4-*d*]pyrimidines**

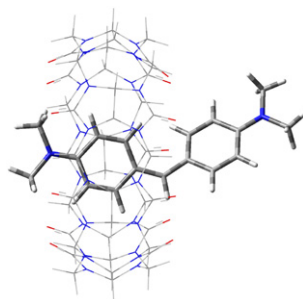
pp 305–310

R. Nathan Daniels, Kwangho Kim, Evan P. Lebois, Hubert Muchalski, Mary Hughes and Craig W. Lindsley\*

**Cucurbit[7]uril stabilization of a diarylmethane carbocation in aqueous solution**

pp 311–314

Ruibing Wang and Donal H. Macartney\*

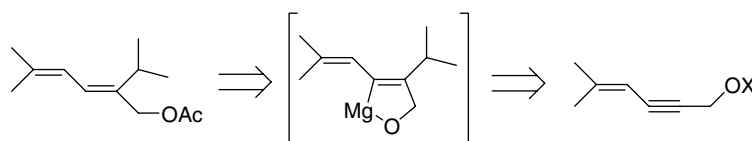


The stability of the 4,4'-bis(dimethylamino)diphenylmethane carbocation is significantly enhanced in aqueous solution by its inclusion in the cavity of the cucurbit[7]uril host molecule.

**Stereospecific synthesis of the sex pheromone of the passionvine mealybug, *Planococcus minor***

pp 315–317

Jocelyn G. Millar

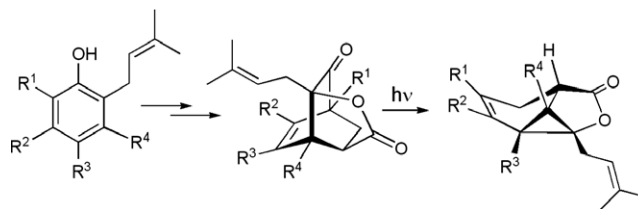


The title compound was synthesized efficiently in three steps using CuI-catalyzed regio- and stereospecific addition of a Grignard reagent to an enynol precursor in the key step.

**Construction of the 3-prenyl-4-oxa-tricyclo[4.3.1.0<sup>3,7</sup>]dec-8-en-2-one core of caged xanthonoid natural products via tandem Wessely oxidation–intramolecular [4+2] cycloaddition**

pp 318–322

Goverdhan Mehta\* and Pulakesh Maity

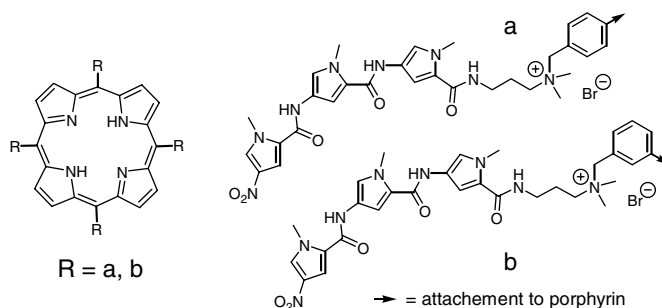


**Spectroscopic binding studies of novel fluorescent distamycin derivatives**

pp 323–326

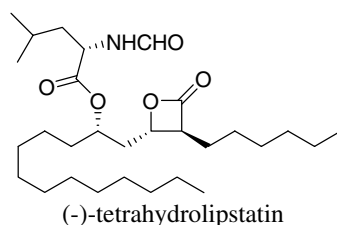
Marcela Tkadlecová,\* Jarmila Foltýnová, Martin Valík and Vladimír Král

Novel distamycin–porphyrin conjugates were synthesized and their interaction with calf thymus DNA was studied. Minor groove binding of the distamycin part of the molecule was confirmed. The porphyrin part of the conjugates exhibited intercalation and the non-specific electrostatic interaction with the phosphate groups of DNA.

**Enantioselective total synthesis of (–)-tetrahydrolipstatin using Oppolzer's sultam directed aldol reaction**

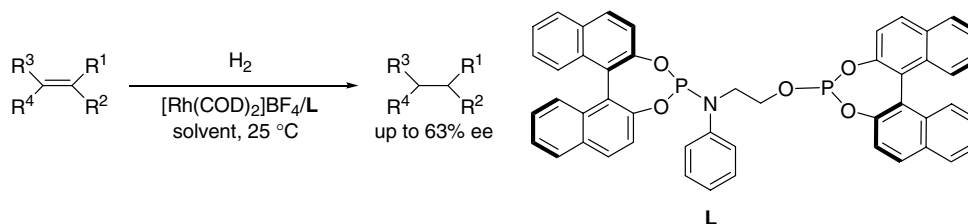
pp 327–330

G. Kumaraswamy\* and B. Markondaiah

**A new easily accessible chiral phosphite–phosphoramidite ligand based on 2-anilinoethanol and R-BINOL moieties for Rh-catalyzed asymmetric olefin hydrogenation**

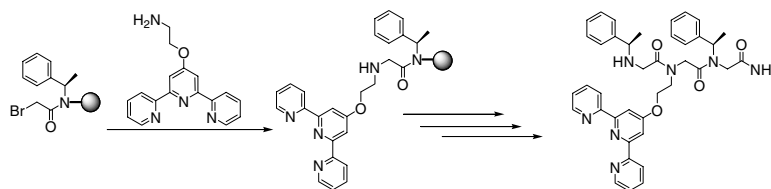
pp 331–334

Ioannis D. Kostas,\* Kalliopi A. Vallianatou, Jens Holz and Armin Börner\*

**Heterocyclic amines for the construction of peptoid oligomers bearing multi-dentate ligands**

pp 335–338

Galia Maayan, Barney Yoo and Kent Kirshenbaum\*

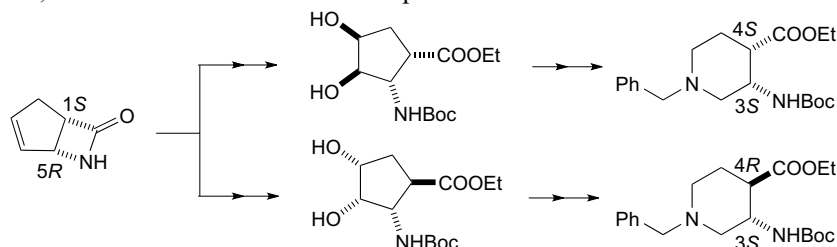




**A new strategy for the preparation of heterocyclic  $\beta$ -amino esters: orthogonally protected  $\beta$ -amino esters with a piperidine skeleton**

pp 339–342

Loránd Kiss, Brigitta Kazi, Enikő Forró and Ferenc Fülöp\*

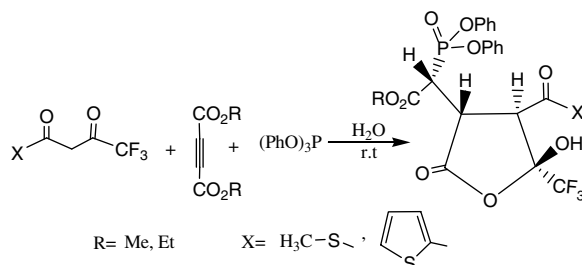


A simple and novel method is presented for the synthesis of aminocyclopentenecarboxylic ester diastereomers with an N-heteroatom in the ring.

**Green diastereoselective synthesis of highly functionalised trifluoromethylated  $\gamma$ -lactone phosphonate esters bearing a thioester or ketothiophene**

pp 343–347

Faramarz Rostami Charati, Malek Taher Maghsoodlou,\* Sayyed Mostafa Habibi Khorassani and Mohamed Makha\*

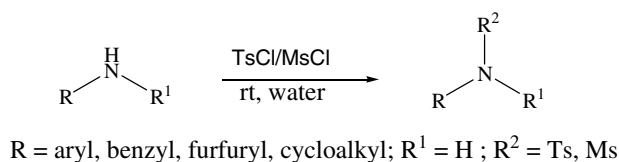


A facile diastereoselective synthesis of highly functionalised 3-(1-diphenylphosphonyl)butyrolactones is described.

**Base-free monosulfonylation of amines using tosyl or mesyl chloride in water**

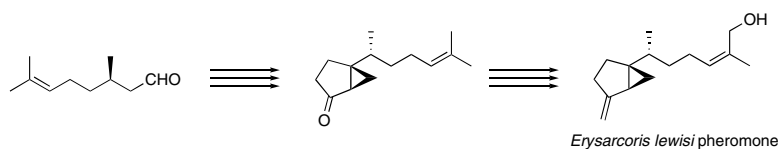
pp 348–353

Ahmed Kamal,\* J. Surendranadha Reddy, E. Vijaya Bharathi and D. Dastagiri


**Determination of the absolute configuration of the male aggregation pheromone, 2-methyl-6-(4'-methylene-bicyclo[3.1.0]hexyl)hept-2-en-1-ol, of the stink bug *Erysarcoris lewisi* (Distant) as 2Z,6R,1'S,5'S by its synthesis**

pp 354–357

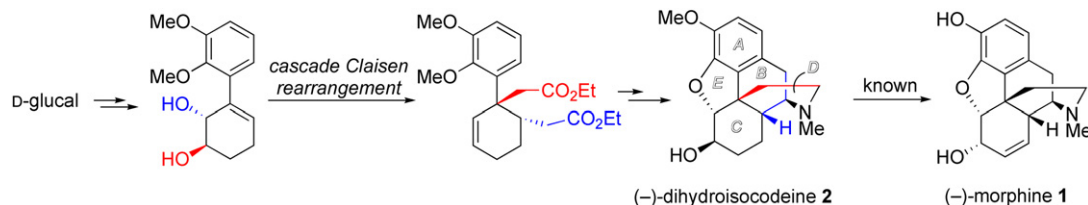
Kenji Mori,\* Takuya Tashiro, Tomoko Yoshimura, Masami Takita, Jun Tabata, Shyuntaro Hiradate and Hajime Sugie



**Formal synthesis of (–)-morphine from D-glucal based on the cascade Claisen rearrangement**

pp 358–362

Hiroki Tanimoto, Ryosuke Saito and Noritaka Chida\*

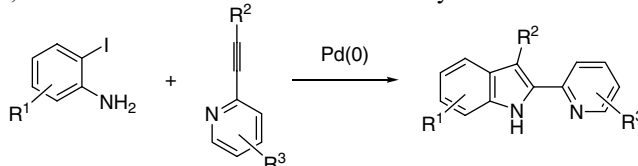


The chiral and stereoselective synthesis of (–)-dihydroisocodeine **2**, the known synthetic intermediate of (–)-morphine **1**, is described. The vicinal tertiary and quaternary stereocenters in **2** were effectively generated in one-step reaction based on the cascade sequential Claisen rearrangement of a cyclohexene-diol derived from D-glucal.

**Preparation of 3-substituted-2-pyridin-2-ylindoles: regioselectivity of Larock's indole annulation with 2-alkynylpyridines**

pp 363–366

Frank Roschangar,\* Jianxiu Liu, Emilie Estanove, Marine Dufour, Sonia Rodríguez, Vittorio Farina, Eugene Hickey, Azad Hossain, Paul-James Jones, Heewon Lee, Bruce Z. Lu, Richard Varsolona, Jürgen Schröder, Pierre Beaulieu, James Gillard and Chris H. Senanayake

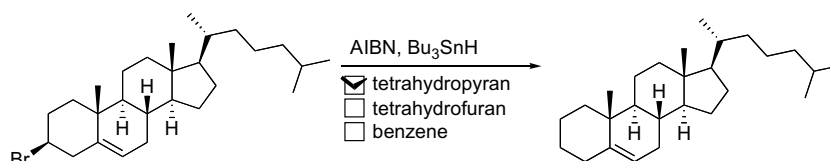


A regioselective Larock approach to 3-substituted-2-pyridin-2-ylindoles from 2-alkynylpyridines and 2-iodoanilines is described herein. The unexpectedly high regioselectivity can be rationalized by a combination of steric, coordinative, and electronic effects.


**Radical chain reactions using THP as a solvent**

pp 367–370

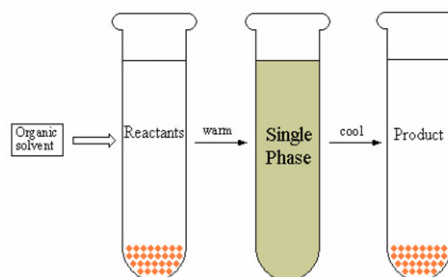
Hiroshi Yasuda,\* Yoshitaka Uenoyama, Osamu Nobuta, Shoji Kobayashi and Ilhyong Ryu\*


**Palladium-catalyzed Heck reaction under thermomorphic mode**

pp 371–375

Norman Lu,\* Shih-Chieh Chen, Tsung-Chi Chen and Ling-Kang Liu

Being soluble in polar organic solvents at >120 °C but insoluble at room temperature, complexes **2b–c** were demonstrated to be recoverable in Pd-catalyzed Heck reactions under the thermomorphic mode.



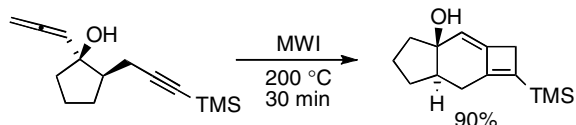
♦ Catalyst **2b–c**: [PdCl<sub>2</sub>(4,4'-bis-(R<sub>f</sub>CH<sub>2</sub>OCH<sub>2</sub>)-2,2'-bpy)] where R<sub>f</sub> = *n*-C<sub>10</sub>F<sub>21</sub> (**2b**), *n*-C<sub>10</sub>F<sub>23</sub> (**2c**)



**Intramolecular thermal allenyne [2+2] cycloadditions: facile construction of the 5–6–4 ring core of sterpurenene**

pp 376–378

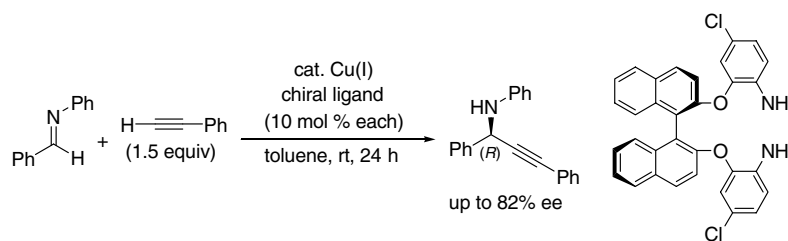
Timo V. Ovaska\* and Robert E. Kyne



**Enantioselective alkylation to aldimines catalyzed by chiral 2,2'-di(2-aminoaryloxy)-1,1'-binaphthyl-copper(I) complexes**

pp 379–382

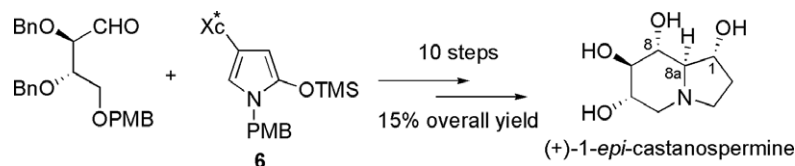
Manabu Hatano, Takafumi Asai and Kazuaki Ishihara\*



**A concise approach to (+)-1-*epi*-castanospermine**

pp 383–386

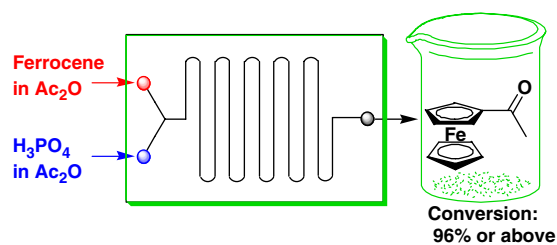
Tian-Jun Wu and Pei-Qiang Huang\*



**Highly selective acylation of ferrocene using microfluidic chip reactor**

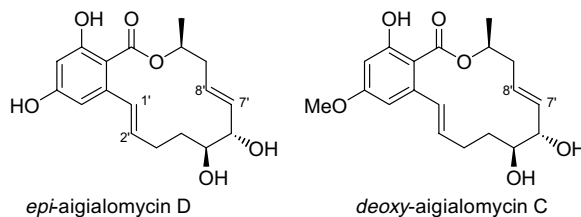
pp 387–389

Rui-Jun Hu, Ming Lei,\* Hao-Shu Xiong, Xin Mu, Yan-Guang Wang\* and Xue-Feng Yin



## Syntheses of *epi*-aigialomycin D and *deoxy*-aigialomycin C via a diastereoselective ring closing metathesis macrocyclization protocol pp 390–393

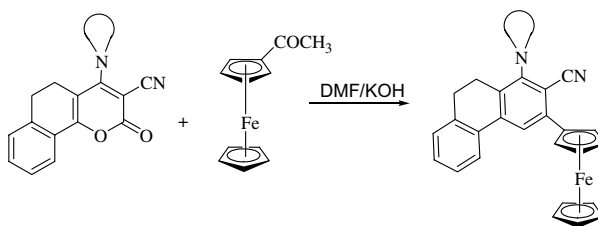
Naval Bajwa and Michael P. Jennings\*



Syntheses of *epi*-aigialomycin D and *deoxy*-aigialomycin C are described via a remote stereocontrolled RCM macrocyclization.

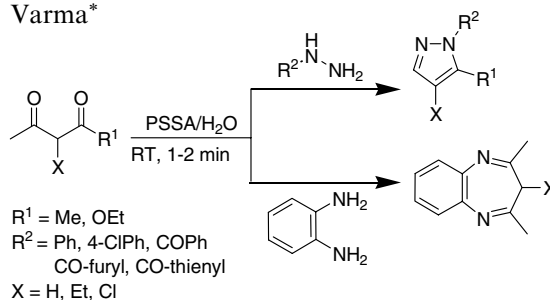
## Synthesis of partially reduced ferrocenylphenanthrenes from 2-oxobenzol[h]chromenes through C–C insertion pp 394–396

Ramendra Pratap and Vishnu Ji Ram\*



## Greener and rapid access to bio-active heterocycles: room temperature synthesis of pyrazoles and diazepines in aqueous medium pp 397–400

Vivek Polshettiwar and Rajender S. Varma\*



\*Corresponding author

Supplementary data available via ScienceDirect

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®



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