

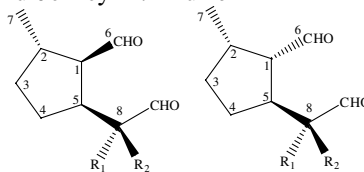
Contents

COMMUNICATIONS

Iridodials: enantiospecific synthesis and stereochemical assignment of the pheromone for the golden-eyed lacewing, *Chrysopa oculata*

pp 3339–3340

Kamlesh R. Chauhan,* Qing-He Zhang and Jeffrey R. Aldrich



1a: R₁ = CH₃, R₂ = H
1b: R₁ = H, R₂ = CH₃

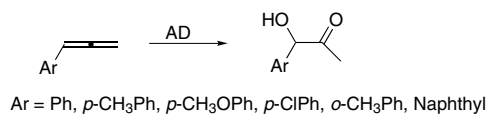
1c: R₁ = CH₃, R₂ = H
1d: R₁ = H, R₂ = CH₃

1*R*,2*S*,5*R*,8*R*; 1*R*,2*S*,5*R*,8*S*; 1*S*,2*S*,5*R*,8*R*; and 1*S*,2*S*,5*R*,8*S*-Iridodials have been prepared in five steps from 4*aS*,7*S*,7*aR* and 4*aS*,7*S*,7*aS*-nepetalactones, major components of catnip oil.

Asymmetric dihydroxylation of allenes

pp 3341–3343

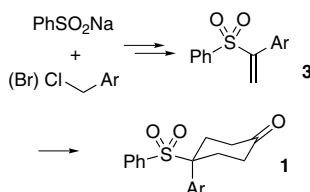
Steven A. Fleming,* Sean M. Carroll, Jennifer Hirschi, Renmao Liu, J. Lee Pace and J. Ty Redd



Expedient Diels–Alder assembly of 4-aryl-4-phenylsulfonyl cyclohexanones

pp 3345–3348

Jeremy P. Scott,* Deborah C. Hammond, Elizabeth M. Beck, Karel M. J. Brands, Antony J. Davies, Ulf-H. Dolling and Derek J. Kennedy



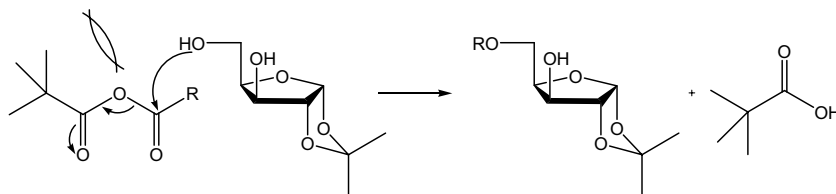
Alkylation, methylenation and highly regioselective Diels–Alder cycloaddition provided access to 4-aryl-4-phenylsulfonyl cyclohexanones, containing a quaternary sulfone-bearing carbon, in moderate to excellent overall yield for the three steps (38–78%).



Thermodynamic and kinetic considerations in the chemoselective O-acylation by mixed anhydrides. A semiempirical MO approach

pp 3349–3353

Antonio J. Mota,* Rafael Robles,* Luis Álvarez de Cienfuegos and Alberto Lamencá

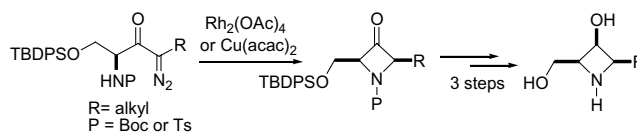


A simple methodology to achieve high chemoselective O-acylation of primary hydroxy groups was performed. Thermodynamic and kinetic factors were evaluated by means of semiempirical calculations (AM1 and PM3).


Metal carbene N–H insertion of chiral α,α' -dialkyl α -diazoketones. A novel and concise method for the stereocontrolled synthesis of fully substituted azetidines

pp 3355–3358

Antonio Carlos B. Burtoloso and Carlos Roque D. Correia*

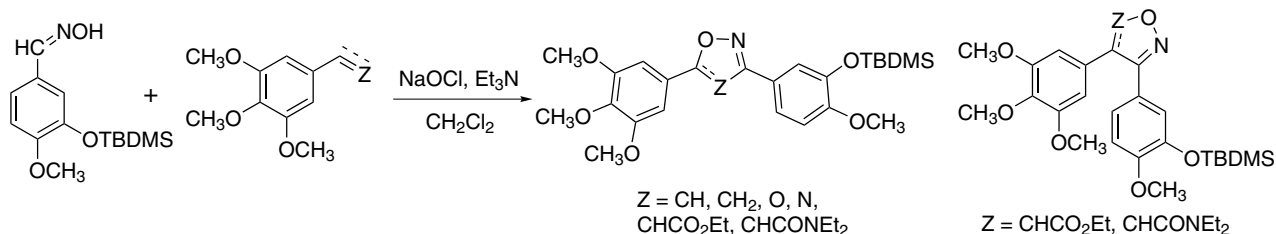


The syntheses of all *cis* substituted azetidines were accomplished in few steps from L-serine in modest to high yields. The key step was based on a rhodium or copper carbenoid N–H insertion of α,α' -dialkyl- α -diazoketones to furnish *cis*-2,4-dialkyl-azetidin-3-ones as the only observable diastereoisomers.


1,3-Dipolar cycloaddition route to novel isoxazole-type derivatives related to combretastatin A-4

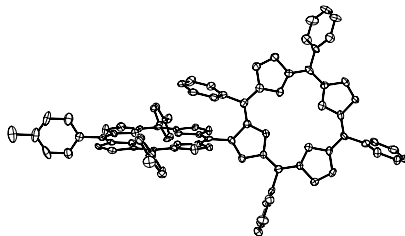
pp 3359–3362

Julia Kaffy, Claude Monneret, Patrick Mailliet, Alain Commerçon and Renée Pontikis*


The *meso*- β -linkage as structural motif in porphyrin-based donor–acceptor compounds

pp 3363–3367

Mathias O. Senge,* Beatrice Rößler, Jörg von Gersdorff, Andreas Schäfer and Harry Kurreck

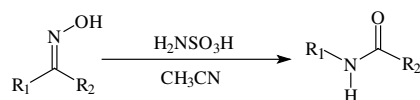


The synthesis of directly *meso*- β -linked bis- and triporphyrins has been explored and used for the convenient preparation of P–P–Q donor–acceptor systems consisting of bisporphyrin, spacer, and quinone acceptor.

Sulfamic acid as a cost-effective and recyclable catalyst for liquid Beckmann rearrangement, a green process to produce amides from ketoximes without waste

pp 3369–3372

Bo Wang, Yanlong Gu, Cheng Luo, Tao Yang, Liming Yang* and Jishuan Suo

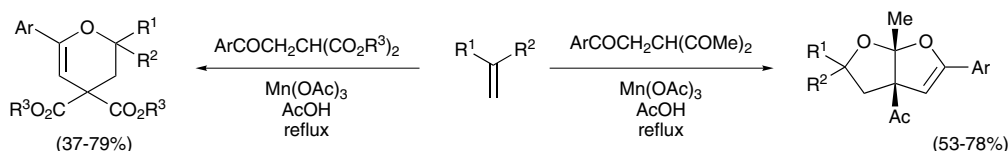


Sulfamic acid ($\text{H}_2\text{NSO}_3\text{H}$) has been proved to be an efficient and green catalyst for liquid Beckmann rearrangement of ketoxime in dried acetonitrile. The use of basic neutralization agent has been avoided due to the intrinsic zwitterionic property of sulfamic acid. Moreover, it has been proved to be an efficient route for separating corresponding products of Beckmann rearrangement of ketoximes. Thus it may be a green process for the preparation of amide from ketoxime without producing any waste.

Novel synthesis of dihydropyrans and 2,8-dioxabicyclo[3.3.0]oct-3-enes using Mn(III)-based oxidative cyclization

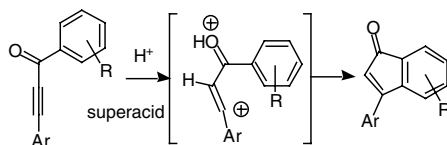
pp 3373–3377

Van-Ha Nguyen and Hiroshi Nishino*

**A new, fast and efficient synthesis of 3-aryl indenones: intramolecular cyclization of 1,3-diarylpropynones in superacids**

pp 3379–3381

Aleksander V. Vasilyev, Stéphane Walspurger, Patrick Pale* and Jean Sommer*

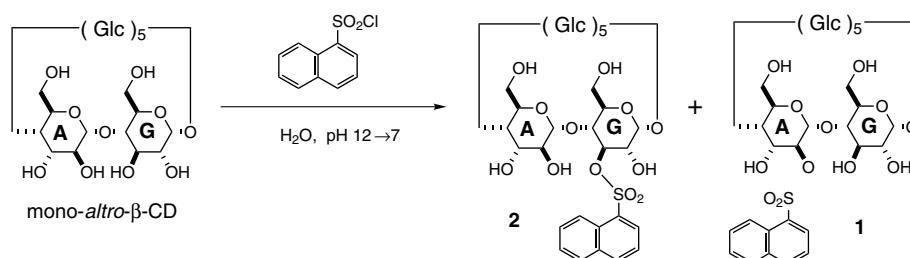


1,3-Diarylpropynones were cleanly converted in a fast (≤ 30 min) and efficient (up to 95% yields) one-pot reaction to the corresponding 3-aryindenones in superacidic media.

Selective modification of mono-*altro*- β -cyclodextrin: dependence of O-sulfonylation position on the shape of sulfonylating reactant

pp 3383–3386

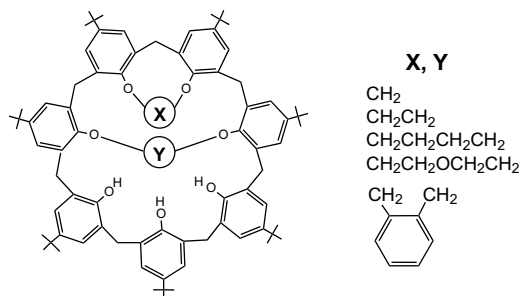
Makoto Fukudome, Kaori Oiwan, Takenari Mori, De-Qi Yuan and Kahee Fujita*



Regioselective double intramolecular bridging of *p*-tert-butylcalix[7]arene

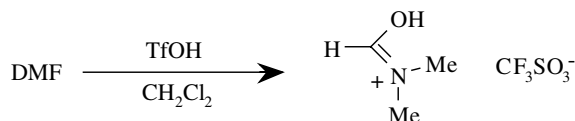
pp 3387–3391

Marco Martino, Carmine Gaeta and Placido Neri*

**New protic salts of aprotic polar solvents**

pp 3393–3395

Isabelle Favier and Elisabet Duñach*

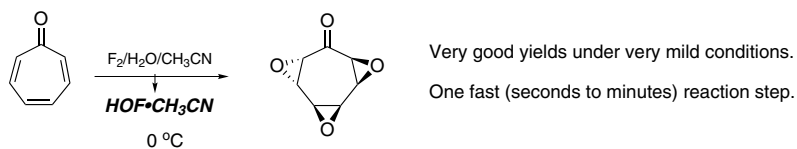


Triflate and triflimide salts of DMF, DMSO and MeCN are prepared in excellent yields.

An easy way for constructing hard-to-make epoxides employing HOF·CH₃CN

pp 3397–3399

Elizabeth Golan, Aviv Hagooley and Shlomo Rozen*

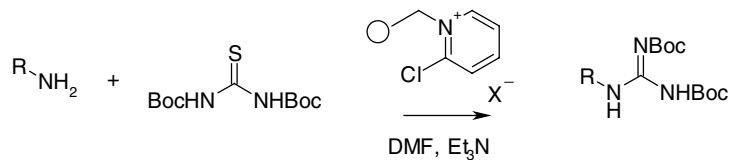


Epoxidation of eight other difficult-to-epoxidize enes and polyenes are presented.

Preparation and evaluation of a polymer-supported Mukaiyama reagent

pp 3401–3404

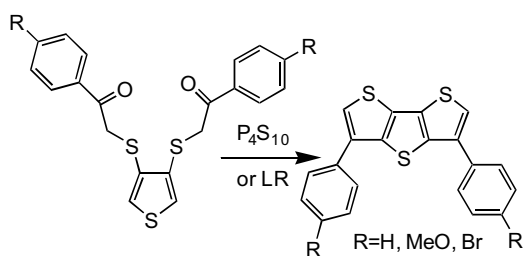
Emmanuelle Convers, Heather Tye* and Mark Whittaker



A new reaction of P_4S_{10} and Lawesson's reagent; a new method for the synthesis of dithieno[3,2-*b*;2',3'-*d*]thiophenes

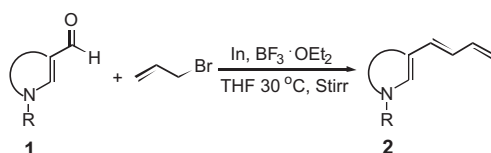
pp 3405–3407

Erdal Ertas and Turan Ozturk*

**A simple one-step protocol for the olefination of vinylogous formamides**

pp 3409–3412

Vijay Kumar, Swapandeep Singh Chimni and Subodh Kumar*

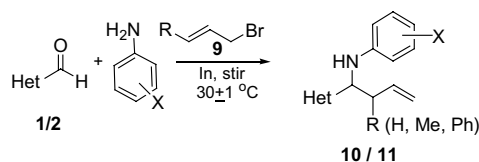


Vinylogous formamides—5-formyluracils and 4-formylpyrazoles—undergo smooth olefination in THF in the presence of indium metal (0.8 equiv) and $BF_3 \cdot OEt_2$ (1 equiv) and allyl bromide (1 equiv) to provide the respective diene-substituted heterocycles in a single step.

Rate acceleration and diastereoselectivity in chelation-controlled indium-promoted Barbier allylation of pyridine-2- and quinoline-2-imines in aqueous solvents

pp 3413–3416

Subodh Kumar* and Pervinder Kaur

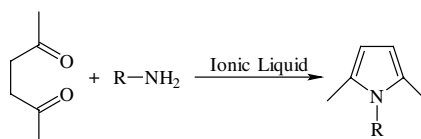


The imines generated in situ from 2-pyridine-/2-quinoline-carboxaldehydes and aryl amines undergo indium-mediated Barbier allylation in aqueous media to provide the respective homoallylic amines with d.r. up to 98:2.

Pyrrole synthesis in ionic liquids by Paal–Knorr condensation under mild conditions

pp 3417–3419

Bo Wang, Yanlong Gu, Cheng Luo, Tao Yang, Liming Yang* and Jishuan Suo

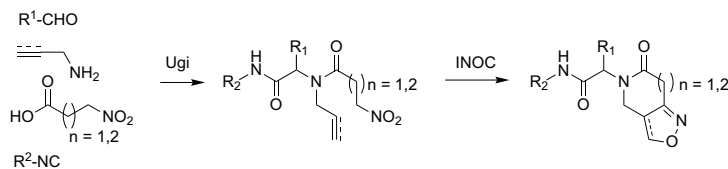


Paal–Knorr condensation of 2,5-hexandione with primary amines was successfully carried out in ionic liquids. The reaction, using ionic liquids as solvent, exhibited many advantages over in conventional organic solvents of simple product isolation procedure, improved yields and exclusive selectivity, the mild conditions and the avoidance of using toxic catalysts. Recovery and reuse of ionic liquids are also satisfactory, which demonstrate the cost efficiency and green aspect of our methodology.

Synthesis of novel fused isoxazoles and isoxazolines by sequential Ugi/INOC reactions

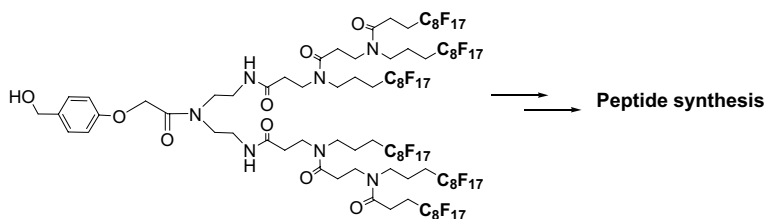
pp 3421–3423

Irimi Akritopoulou-Zanze,* Vijaya Gracias, Joel D. Moore and Stevan W. Djuric

**Peptide synthesis on fluororous support**

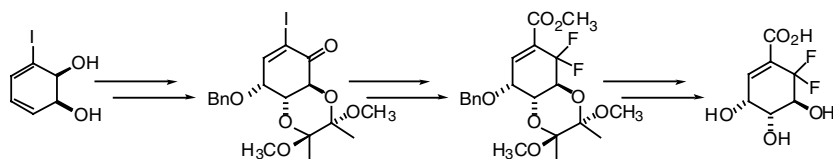
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Mamoru Mizuno,* Kohtaro Goto, Tsuyoshi Miura, Takeshi Matsuura and Toshiyuki Inazu

**The synthesis of 6,6-difluoroshikimic acid**

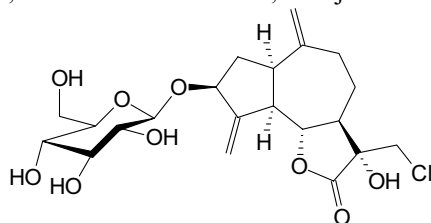
pp 3429–3432

Jane L. Humphreys, David J. Lowes, Karen A. Wesson and Roger C. Whitehead*

**13-Chloro-3-O-β-D-glucopyranosylsolstitialin from *Leontodon palisae*: the first genuine chlorinated sesquiterpene lactone glucoside**

pp 3433–3436

Christian Zidorn,* Ernst-Peter Ellmerer, Günther Konwalinka, Nadja Schwaiger and Hermann Stuppner

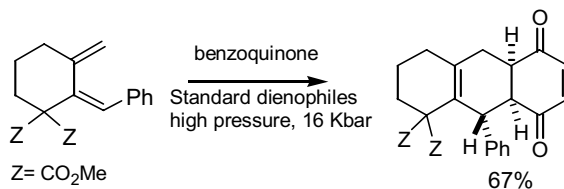


13-Chloro-3-O-β-D-glucopyranosylsolstitialin has been isolated from the Southwestern European plant *Leontodon palisae* (Asteraceae, tribe Lactuceae). The compound represents the first naturally occurring chlorinated sesquiterpene lactone glucoside. The cytotoxicity of the new compound and related ones was evaluated using the MTT assay.

Diels–Alder cycloadditions of functionalized (*Z*)-1-benzylidene-2-methylene cyclohexanes: the beneficial effect of high pressure

pp 3437–3441

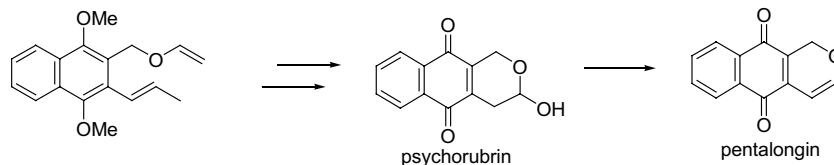
Thierry Lomberget, Isabelle Chataigner, Didier Bouyssi, Jacques Maddaluno and Geneviève Balme*



Synthesis of pyranonaphthoquinone antibiotics involving the ring closing metathesis of a vinyl ether

pp 3443–3446

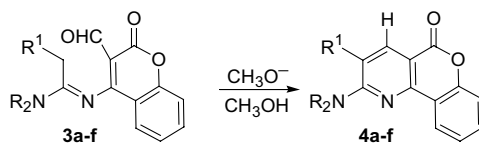
Tuyen Nguyen Van and Norbert De Kimpe*



New synthetic approach to [1]benzopyrano[4,3-*b*]pyridin-5-one derivatives

pp 3447–3449

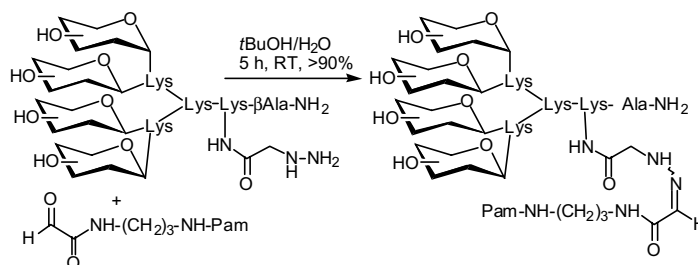
Egle M. Beccalli, Alessandro Contini and Pasqualina Trimarco*



Efficient preparation of carbohydrate- and related polyol-amphiphiles by hydrazone ligation

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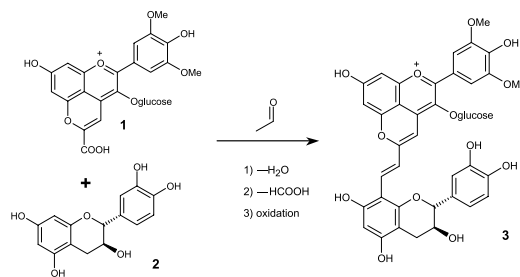
Cyrille Grandjean,* Valérie Santraine, Nathalie Fardel, Ange Polidori, Bernard Pucci, H el ene Gras-Masse and Dominique Bonnet



NMR structure characterization of a new vinylpyranoanthocyanin–catechin pigment (a portisin)

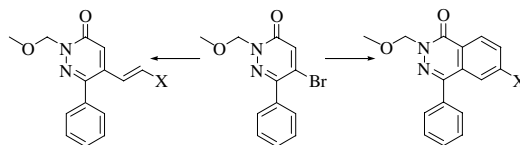
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Nuno Mateus,* Joana Oliveira, Celestino Santos-Buelga, Artur M. S. Silva and Victor de Freitas

**Pyridazine derivatives. Part 38: Efficient Heck alkenylation at position 5 of the 6-phenyl-3(2H)-pyridazinone system**

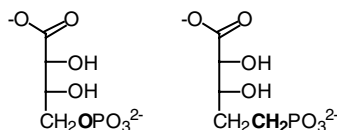
pp 3459–3463

Alberto Coelho, Eddy Sotelo, Héctor Novoa, Oswald M. Peeters, Norbert Blaton and Enrique Raviña*

**Synthesis and kinetic evaluation of 4-deoxy-4-phosphonomethyl-D-erythronate, the first hydrolytically stable and potent competitive inhibitor of ribose-5-phosphate isomerase**

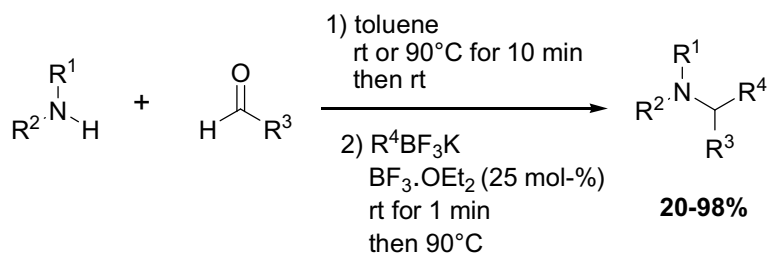
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Emmanuel Burgos and Laurent Salmon*

**Lewis acid-catalyzed Mannich type reactions with potassium organotrifluoroborates**

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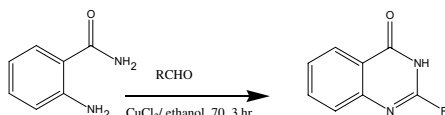
Jean-Philippe Tremblay-Morin, Stéphane Raeppele* and Frédéric Gaudette



A novel method for the synthesis of 4(3*H*)-quinazolinones

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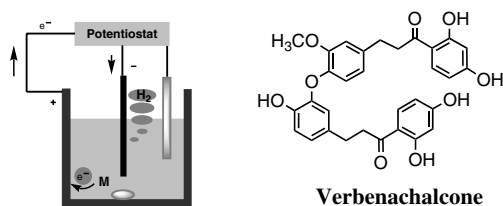
Raid J. Abdel-Jalil,* Wolfgang Voelter and Muhammad Saeed



A total synthesis of verbenachalcone, a bioactive diaryl ether from *Verbena littoralis*

pp 3477–3480

Takamasa Tanabe, Fuminao Doi, Takahisa Ogamino and Shigeru Nishiyama*

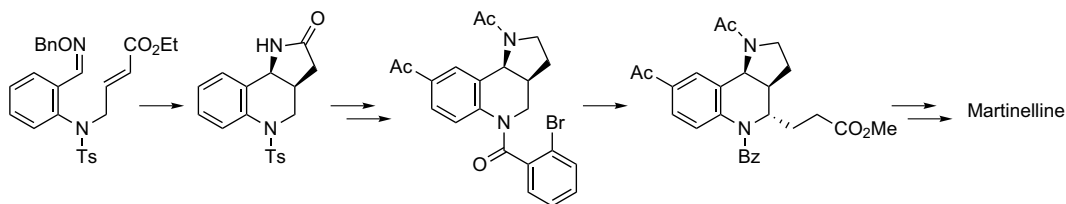


A synthesis of verbenachalcone was accomplished by using anodic oxidation of the phenol as the key step.

A formal synthesis of martinelline via a combination of two types of radical reactions

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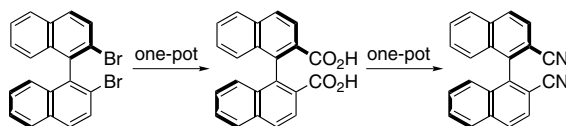
Yoshifumi Takeda, Toshiki Nakabayashi, Atsushi Shirai, Daisuke Fukumoto, Toshiko Kiguchi and Takeaki Naito*



Practical synthetic protocols of enantiopure 1,1'-binaphthyl-2,2'-dicarboxylic acid and 2,2'-dicyano-1,1'-binaphthyl starting from optically active dibromide precursor

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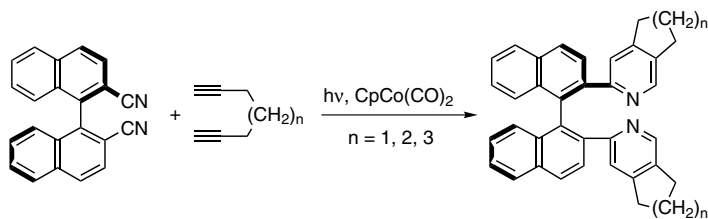
Takashi Hoshi,* Eiji Nozawa, Masayoshi Katano, Toshio Suzuki and Hisahiro Hagiwara*



Resolution-free route to chiral 2,2'-bis(pyridin-2-yl)-1,1'-binaphthyl ligand: photochemical CpCo(CO)₂-mediated cycloaddition of enantiopure 2,2'-dicyano-1,1'-binaphthyl with diynes

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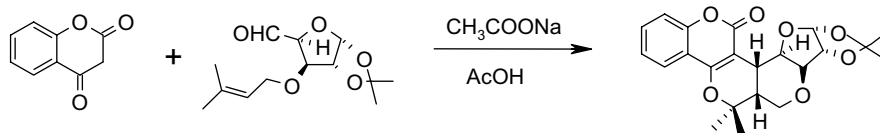
Takashi Hoshi,* Masayoshi Katano, Eiji Nozawa, Toshio Suzuki and Hisahiro Hagiwara*



Domino Knoevenagel hetero-Diels–Alder reactions: a stereoselective synthesis of sugar fused furo[3,2-*b*]pyrano[4,3-*d*]pyran derivatives

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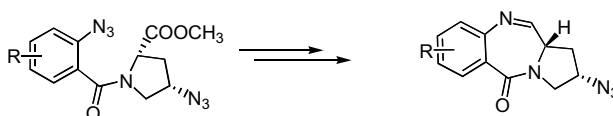
J. S. Yadav,* B. V. S. Reddy, D. Narsimhaswamy, P. Naga Lakshmi, K. Narsimulu, G. Srinivasulu and A. C. Kunwar



Selective reduction of aromatic azides with hexamethyldisilathiane: synthesis of new 2-azidopyrrolo[2,1-*c*][1,4]benzodiazepines

pp 3499–3501

Ahmed Kamal,* K. Laxma Reddy, G. Suresh Kumar Reddy and B. S. Narayan Reddy



Zinc-metal promoted selective α -haloacylation and *gem*-bisacylation of alkyl aldehydes in the presence of chlorotrimethylsilane

pp 3503–3506

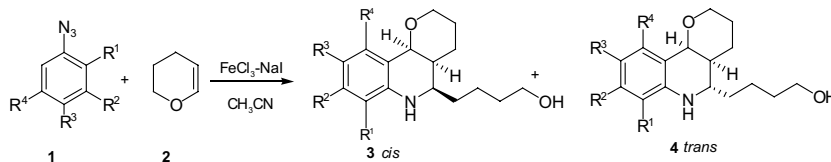
Yoshio Ishino,* Masatoshi Mihara, Takeshi Takeuchi and Masanobu Takemoto



FeCl₃–NaI mediated reactions of aryl azides with 3,4-dihydro-2H-pyran: a convenient synthesis of pyranoquinolines

pp 3507–3509

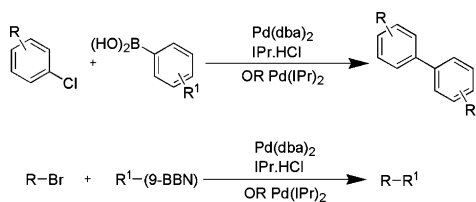
Ahmed Kamal,* B. Rajendra Prasad, A. Venkata Ramana, A. Hari Babu and K. Srinivasa Reddy



Suzuki–Miyaura cross-coupling of aryl and alkyl halides using palladium/imidazolium salt protocols

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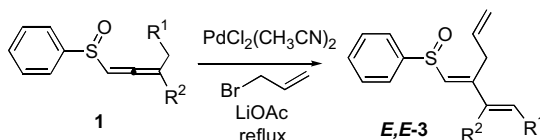
Katherine Arentsen, Stephen Caddick,* F. Geoffrey N. Cloke,* Adam P. Herring and Peter B. Hitchcock



Highly regio- and stereoselective PdCl₂(MeCN)₂-catalyzed cross coupling of 1,2-allenyl sulfoxides with allyl bromide

pp 3517–3520

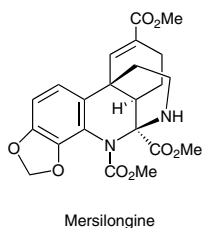
Shengming Ma,* Qi Wei and Hongjun Ren



Mersilongine, a novel tetracyclic quinolinic alkaloid from *Kopsia*

pp 3521–3524

Toh-Seok Kam* and G. Subramaniam

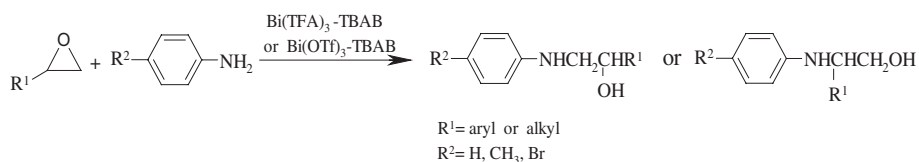


A novel quinolinic alkaloid, viz., mersilongine, incorporating a novel tetracyclic carbon skeleton was obtained from a Malayan *Kopsia* species. The structure was established by spectroscopic analysis and a possible pathway from a mersinine-type precursor is presented.

A powerful, practical and chemoselective synthesis of 2-anilinoalkanols catalyzed by Bi(TFA)₃ or Bi(OTf)₃ in the presence of molten TBAB

pp 3525–3529

Mohammad M. Khodaei,* Ahmad R. Khosropour* and Kazem Ghozati



An efficient and chemoselective ring opening of epoxides with anilines in the presence of catalytic amounts of Bi(TFA)₃ or Bi(OTf)₃ via the use of molten tetrabutylammonium bromide (TBAB) as an ionic liquid is reported.

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*Corresponding author

 Supplementary data available via ScienceDirect



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