

Tetrahedron Letters Vol. 49, No. 17, 2008

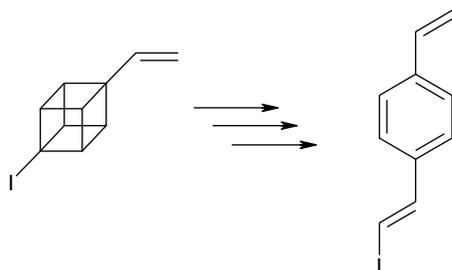
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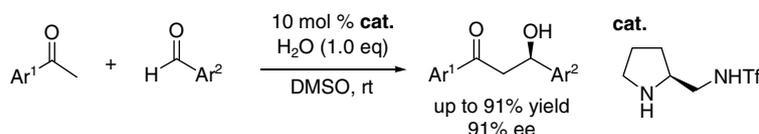
Vincent M. Carroll, David N. Harpp, Ronny Priefer *



(S)-Pyrrolidine sulfonamide catalyzed asymmetric direct aldol reactions of aryl methyl ketones with aryl aldehydes

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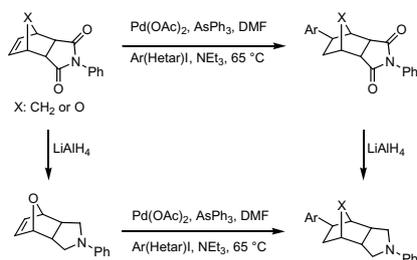
Kui Mei, Shilei Zhang *, Songtao He, Ping Li, Mei Jin, Fei Xue, Guangshun Luo, Haoyi Zhang, Lirong Song, Wenhui Duan *, Wei Wang *



Hydroarylation of bicyclic, unsaturated dicarboximides: access to aryl-substituted, bridged perhydroisoindoles

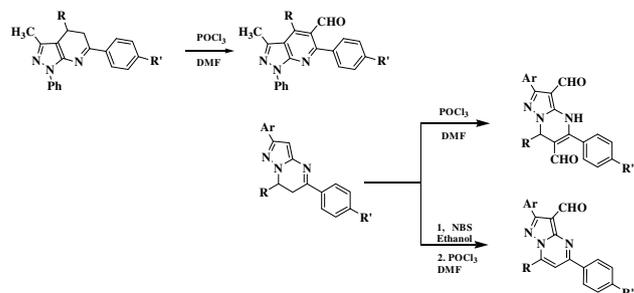
pp 2685–2688

Gökce Göksu, Melek Gül, Nüket Öcal *, Dieter E. Kaufmann *

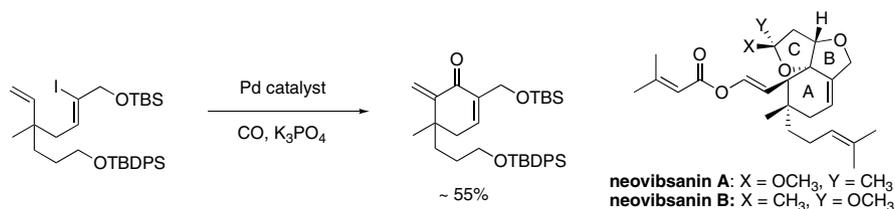


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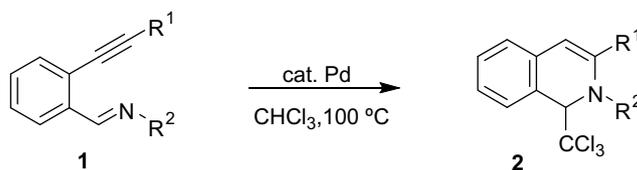
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Synthetic studies toward neovibsanins A and B: construction of the neovibsanin core utilizing palladium(0)-catalyzed carbonylative cyclization with carbon monoxide pp 2692–2696

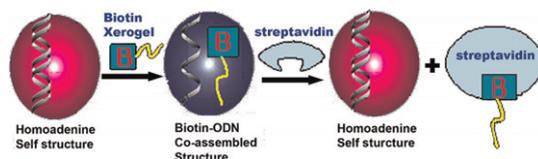
Tomoyuki Esumi *, Ming Zhao, Taishi Kawakami, Mayuna Fukumoto, Masao Toyota, Yoshiyasu Fukuyama *


Synthesis of 1,2-dihydroisoquinolines via palladium(0)-catalyzed addition–cyclization of chloroform to *ortho*-alkynylaldimines pp 2697–2700

Hiroyuki Nakamura *, Hiroyuki Saito, Masato Nanjo


A co-assembled probing system using the homoadenine self duplex signal pp 2701–2703

Young Jun Seo, Sankarprasad Bhuniya, Jeong Wu Yi, Byeang Hyeon Kim *

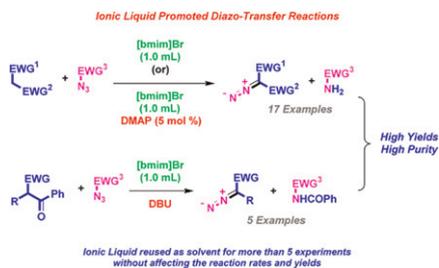


A co-assembly system consisting of fluorescent ODN and biotin has been developed to recognize streptavidin, and it shows a fluorescent discrimination between blue and red signals through recognizing streptavidin.

Direct ionic liquid promoted organocatalyzed diazo-transfer reactions: diversity-oriented synthesis of diazo-compounds

pp 2704–2709

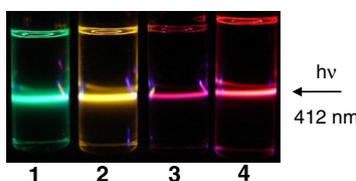
Dhevalapally B. Ramachary *, Vidadala V. Narayana, Kinthada Ramakumar



Synthesis, characterization, photophysical and electrochemical properties of new phosphorescent dopants for OLEDs

pp 2710–2713

Neeraj Agarwal *, Pabitra K. Nayak

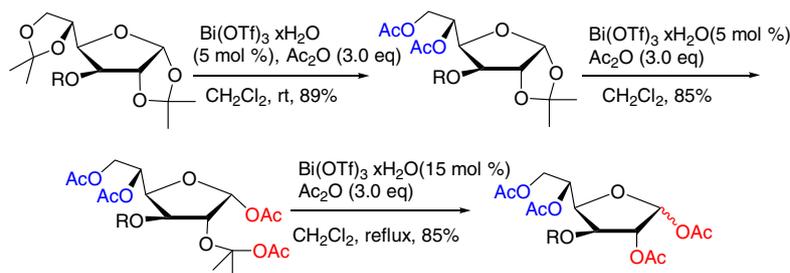


Heteroleptic Ir(III) complexes of 2-(*p*-phenyl)-pyridine (*C*^N) were synthesized and characterized. Substitution at the *para* phenyl position of ligands alters the electronic properties of these complexes. These new Ir(III) complexes show emission in the green, yellow, and orange-red regions. The *E*_{HOMO} and triplet energy levels of these complexes were estimated.

A facile one-pot procedure for the transformation of acetonides into diacetates catalyzed with Bi(OTf)₃·xH₂O

pp 2714–2718

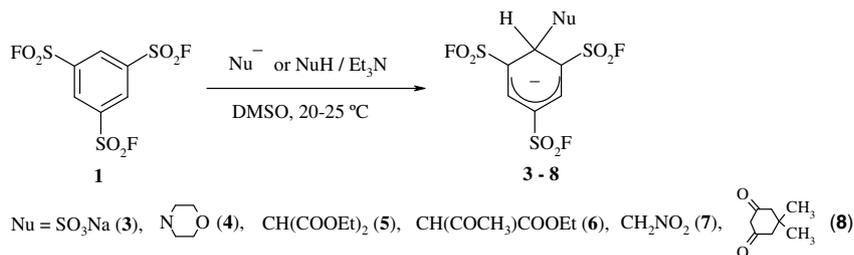
Qin-Pei Wu *, Ming-Xin Zhou, Xiao-Dong Xi, Di Song, Yuan Wang, Hai-Xia Liu, Yun-Zheng Li, Qing-Shan Zhang *



Anionic σ -complexes of 1,3,5-tris(fluorosulfonyl)benzene

pp 2719–2721

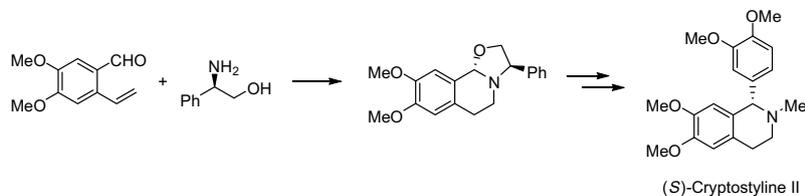
Vladimir N. Boiko *, Oksana M. Kamoshenkova, Andrey A. Filatov



Despite 1,3,5-tris(fluorosulfonyl)benzene **1** being a strong aromatic sulfonic-acid halide it is able to undergo nucleophilic addition at the free positions of aromatic ring with the formation of relatively stable anionic σ -complexes **3–8**.

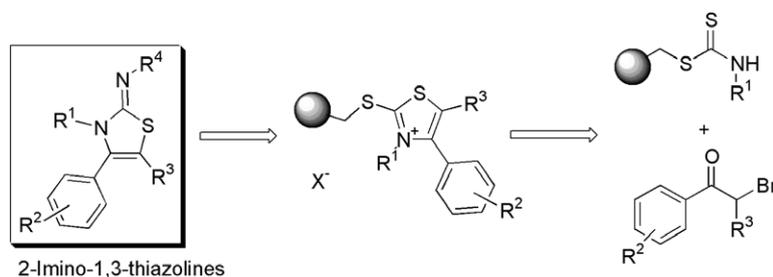
An efficient method for construction of tetrahydroisoquinoline skeleton via double cyclization process using *ortho*-vinylbenzaldehydes and amino alcohols: application to the synthesis of (*S*)-cryptostyline II pp 2722–2725

Kazuteru Umetsu, Naoki Asao *



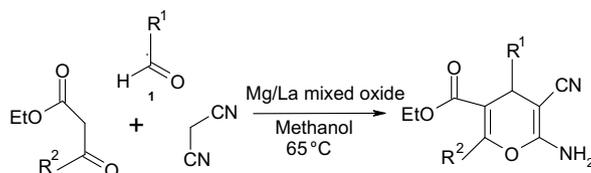
Solid-phase synthesis of tetrasubstituted 2-imino-1,3-thiazolines using a functionalizing cleavage strategy pp 2726–2729

Laurent Gomez *, Françoise Gellibert, Alain Wagner, Charles Mioskowski



A heterogeneous strong basic Mg/La mixed oxide catalyst for efficient synthesis of polyfunctionalized pyrans pp 2730–2733

N. Seshu Babu, Nayeem Pasha, K. T. Venkateswara Rao, P. S. Sai Prasad, N. Lingaiah *

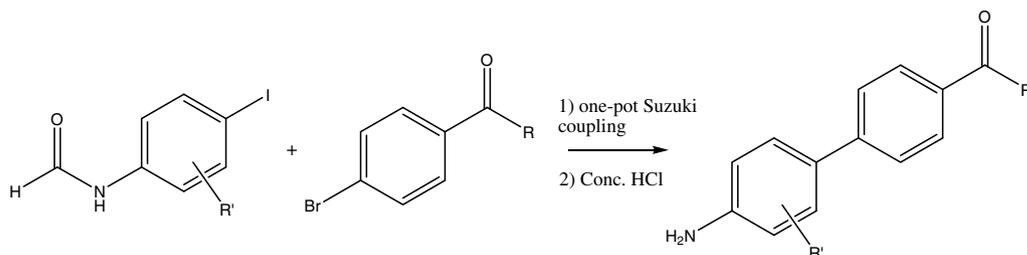


An efficient, heterogeneous strong basic Mg/La catalyst is studied for the synthesis of polyfunctionalized pyran derivatives in a single step by simple condensation of an aldehyde, malononitrile, and diketoesters. The reaction is operated under mild conditions and the catalyst can be recycled.



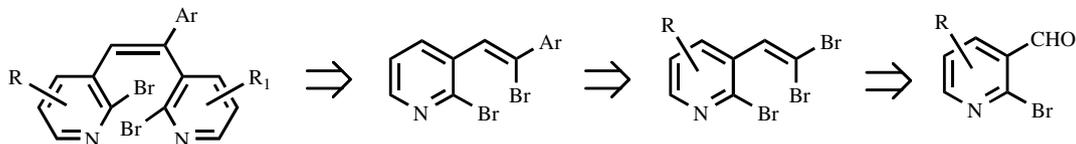
Synthesis of biphenyl anilines using iodo phenylformamides via a one-pot Suzuki coupling reaction pp 2734–2737

Lei Zhu *, Manoj Patel, Mingbao Zhang



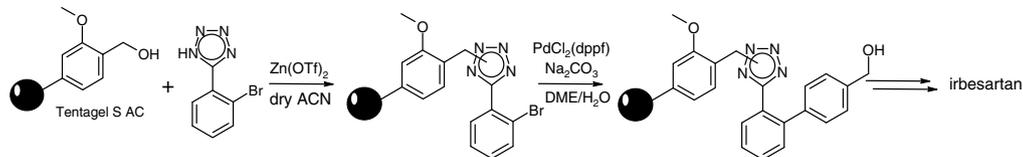
Synthesis of stereodefined 1-aryl(heteroaryl) substituted 1,2-bis(2-bromopyridin-3-yl)ethenes by selective tandem Suzuki–Miyaura cross-coupling reactions pp 2738–2742

Giorgio Chelucci *, Salvatore Baldino



Original loading and Suzuki conditions for the solid-phase synthesis of biphenyltetrazoles. Application to the first solid-phase synthesis of irbesartan pp 2743–2747

Nicolas Cousaert, Nicolas Willand, Jean-Claude Gesquière, André Tartar, Benoît Déprez, Rebecca Deprez-Poulain *

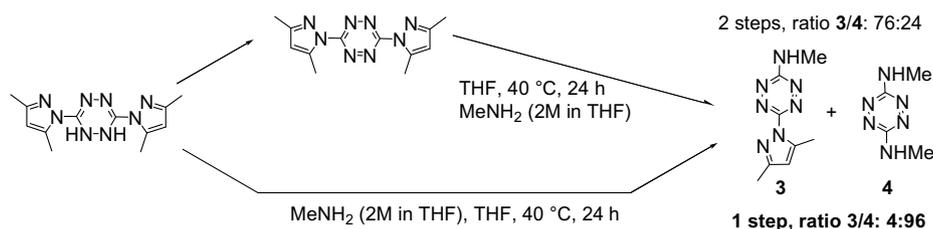


An original method to anchor the tetrazole ring on a hydroxybenzyl resin, associated to new Suzuki–Miyaura cross-coupling conditions, is presented. Using this method, the solid phase synthesis of irbesartan, a biphenyltetrazole antagonist of AT1 receptors, was conducted.



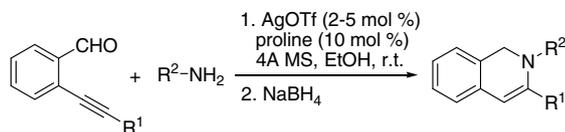
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Arnaud Cutivet, Emmanuel Leroy, Eric Pasquinet *, Didier Poullain

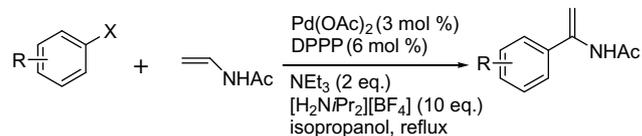


AgOTf-catalyzed one-pot reaction of 2-alkynylbenzaldehyde, amine, and sodium borohydride pp 2752–2755

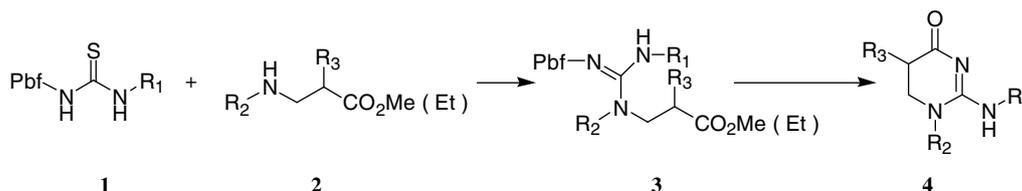
Qiuping Ding, Xingxin Yu, Jie Wu *



A general method for regioselective Heck arylation of electron-rich *N*-acyl-*N*-vinylamine with aryl halides pp 2756–2760
 Zhihua Liu, Dan Xu, Weijun Tang, Lijin Xu *, Jun Mo, Jianliang Xiao *

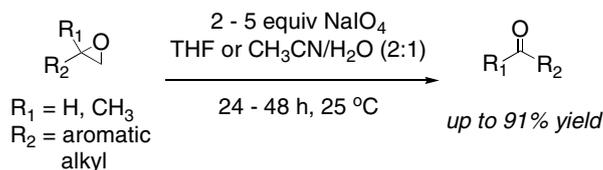


A facile synthesis of 2-(*N*-alkylamino)-pyrimidin-4-one derivatives pp 2761–2763
 Jizhen Li *, Jingping Kou, Xuyang Luo, Erkang Fan

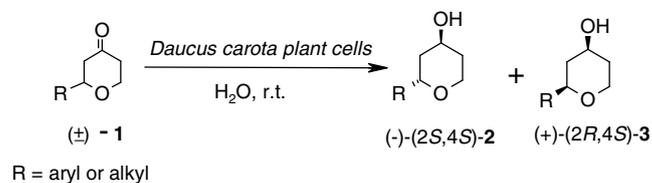


A simple procedure for C–C bond cleavage of aromatic and aliphatic epoxides with aqueous sodium periodate pp 2764–2767
 under ambient conditions

Caitlin M. Binder, Darryl D. Dixon, Erik Almaraz, Marcus A. Tius *, Bakthan Singaram *



Enantioselective reduction of 2-substituted tetrahydropyran-4-ones using *Daucus carota* plant cells pp 2768–2771
 J. S. Yadav *, B. V. Subba Reddy, Ch. Sreelakshmi, G. G. K. S. Narayana Kumar, A. Bhaskar Rao

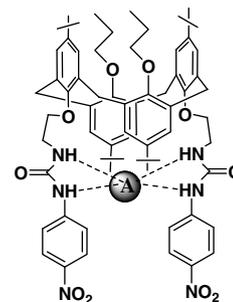


A chloride selective sensor based on a calix[4]arene possessing a urea moiety

pp 2772–2775

J. Nagendra Babu, Vandana Bhalla, Manoj Kumar *, R. K. Mahajan, Rajiv Kumar Puri

New calix[4]arene derivative **1** of 1,3-*alternate* conformation with a ureido moiety has been synthesized and examined for its anion recognition abilities towards different anions.

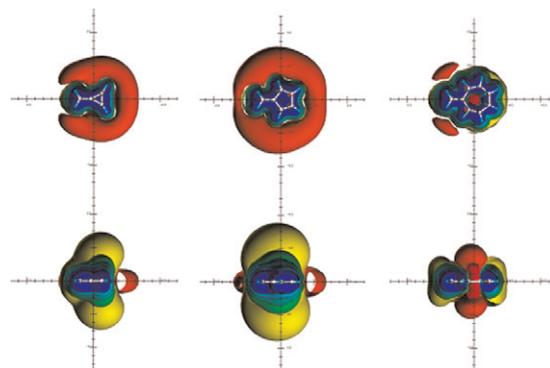


Quantification of the (anti)aromaticity of fulvenes subject to ring size

pp 2776–2781

Erich Kleinpeter *, Anja Fettke

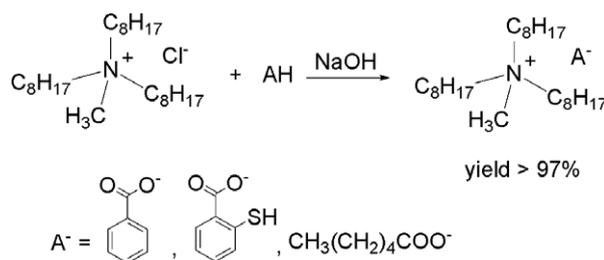
Spatial magnetic properties (TSNMRS) prove tria- and pentafulvenes to attain negligibly small partial aromaticity via conjugation with the exocyclic C=C double bond but heptafulvene to be slightly antiaromatic.



Greener synthesis of new ammonium ionic liquids and their potential as extracting agents

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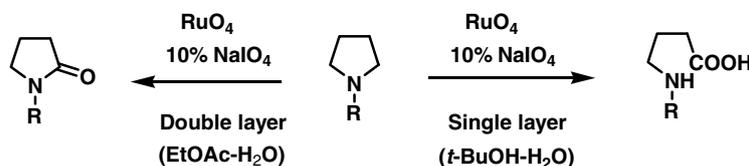
Daniel Kogelnig *, Anja Stojanovic, Markus Galanski, Michael Groessler, Franz Jirsa, Regina Krachler, Bernhard K. Keppler



Ruthenium tetroxide oxidation of cyclic N-acylamines by a single layer method: formation of ω-amino acids

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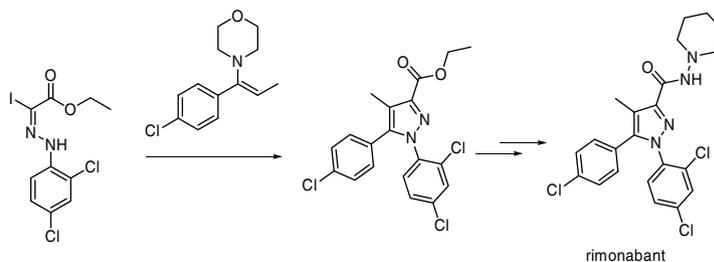
Mamoru Kaname, Shigeyuki Yoshifuji, Haruki Sashida *



A facile and regioselective synthesis of rimonabant through an enamine-directed 1,3-dipolar cycloaddition

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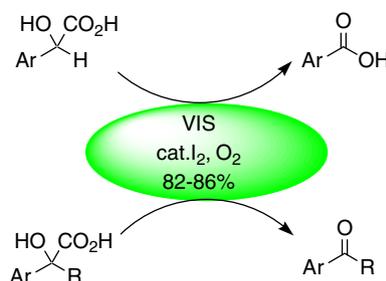
Sean R. Donohue *, Christer Halldin, Victor W. Pike



Aerobic photo-decarboxylation of α -hydroxy carboxylic acid derivatives under visible light irradiation in the presence of catalytic iodine

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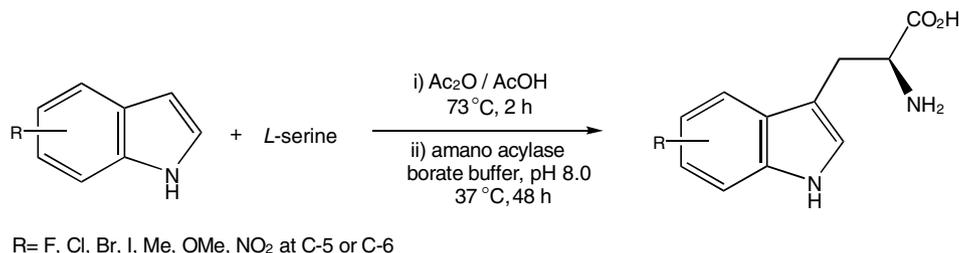
Hiroki Nakayama, Akichika Itoh *



The facile synthesis of a series of tryptophan derivatives

pp 2795–2798

Georg Blaser, John M. Sanderson *, Andrei S. Batsanov, Judith A. K. Howard



Tryptophan derivatives can be easily synthesised from a wide range of indoles.

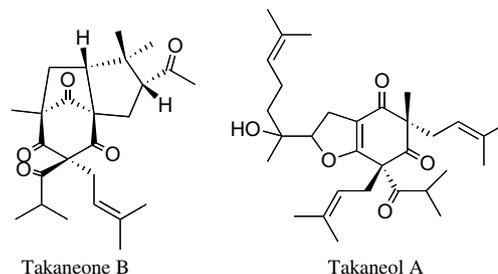


Takaneones A–C, prenylated butylphloroglucinol derivatives from *Hypericum sikokumontanum*

pp 2799–2803

Naonobu Tanaka, Yoshiki Kashiwada, Michiko Sekiya, Yasumasa Ikeshiro, Yoshihisa Takaishi *

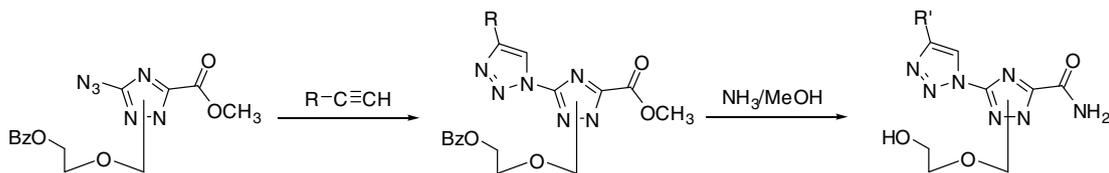
Five new phloroglucinol derivatives, takaneones A–C, takaneols A and B were isolated from the MeOH extracts of the aerial parts of *Hypericum sikokumontanum*. The structures of the isolated compounds were elucidated on the basis of spectroscopic evidence. The cytotoxicities of the compounds against human cancer cell lines were evaluated, and takaneone B showed cytotoxicity especially against K562/Adr cells.



Bitriazolyl acyclonucleosides with antiviral activity against tobacco mosaic virus

pp 2804–2809

Wei Li, Yi Xia, Zhijin Fan, Fanqi Qu, Qiongyou Wu, Ling Peng *



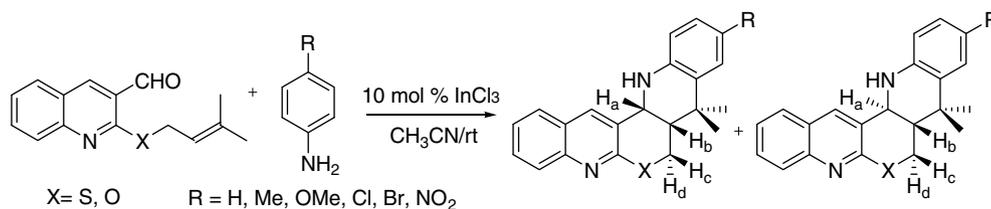
Bitriazolyl acyclonucleosides were synthesized via the Huisgen reaction and then subjected to ammonolysis. The antiviral activity of these nucleosides against tobacco mosaic virus (TMV) was assessed. Like the previously described bitriazolyl compounds, these new bitriazolyl acyclonucleosides were found to show anti-TMV activity. This suggests that the bitriazolyl moieties are important structural features involved in the antiviral activity of these compounds.



Indium chloride/silica gel supported synthesis of pyrano/thiopyranoquinolines through intramolecular imino Diels–Alder reaction using microwave irradiation

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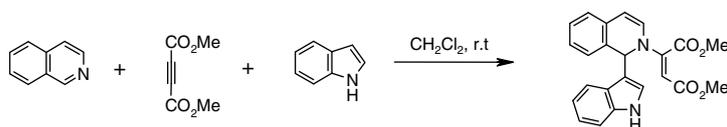
Ekambaram Ramesh, Tarakkad Krishnaji Sree Vidhya, Raghavachary Raghunathan *



Three-component coupling reactions of isoquinolines, dimethyl acetylenedicarboxylate and indoles: a facile synthesis of 3-indolyl-1,2-dihydro-2-isoquinolinyl-2-butenedioate

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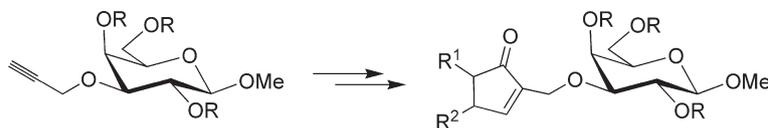
J. S. Yadav *, B. V. Subba Reddy, Nagendra Nath Yadav, Manoj K. Gupta



Intermolecular Pauson–Khand reactions on a galactose scaffold

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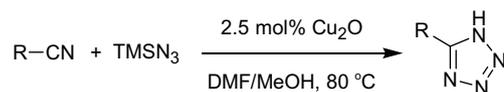
Núria Parera Pera, Ulf J. Nilsson *, Nina Kann *



Copper-catalyzed synthesis of 5-substituted 1*H*-tetrazoles via the [3+2] cycloaddition of nitriles and trimethylsilyl azide

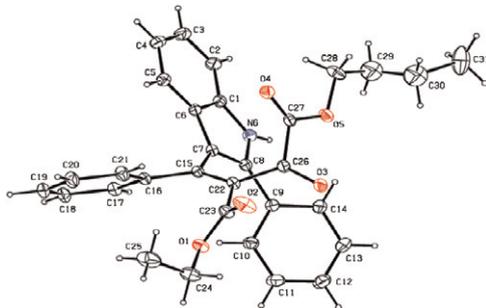
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Tienan Jin, Fukuzou Kitahara, Shin Kamijo, Yoshinori Yamamoto *


Efficient synthesis of some oxalacetic acid and pyruvic acid derivatives from the reactions of 2,3-furandiones with 2-phenylindole

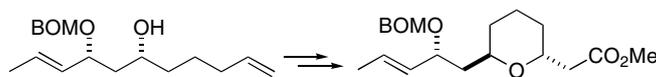
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Ahmet Şener *, Nurettin Mengeş *, Mehmet Akkurt, Selvi Karaca, Orhan Büyükgüngör


Model studies towards the bistramide D tetrahydropyran

pp 2832–2834

Roderick W. Bates *, Kalpana Palani

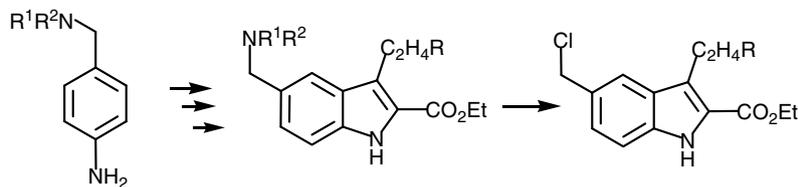


A model of the bistramide D tetrahydropyran is constructed by a cross-metathesis and kinetic intramolecular Michael addition sequence.

The preparation of 5-indolyl-Mannich bases: an expedient source of 5-(chloromethyl)indoles

pp 2835–2838

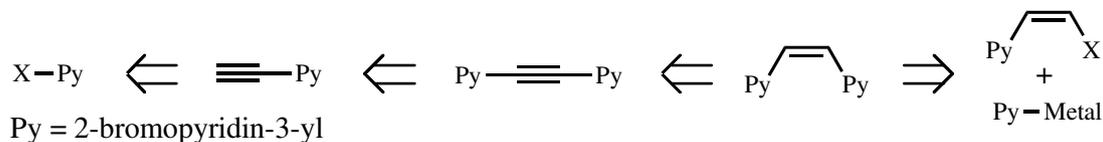
Béla Pete



Regioisomeric analogues of gramine were prepared by Fischer synthesis and converted to (chloromethyl)indoles under mild conditions.

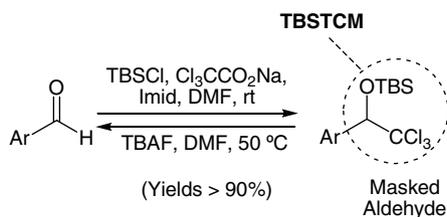
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Giorgio Chelucci *, Salvatore Baldino, Gerard A. Pinna, Barbara Sechi



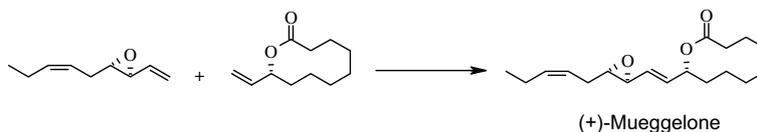
tert-Butyldimethylsilyloxytrichloromethylmethane—readily accessible and robust protecting group for (hetero)aryl aldehydes pp 2844–2847

Lauren R. Cafiero, Timothy S. Snowden *



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J. S. Yadav *, R. Somaiah, K. Ravindar, L. Chandraiah



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*Corresponding author

Supplementary data available via ScienceDirect

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