

Tetrahedron Letters Vol. 50, No. 41, 2009

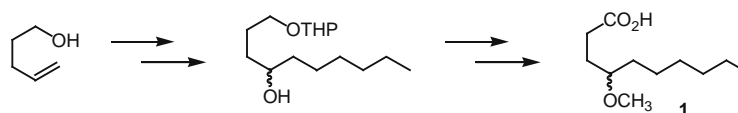
Contents

COMMUNICATIONS

The first total synthesis of (±)-4-methoxydecanoic acid: a novel antifungal fatty acid

pp 5699–5700

Néstor M. Carballeira^{*}, Carlos Miranda, Keykavous Parang

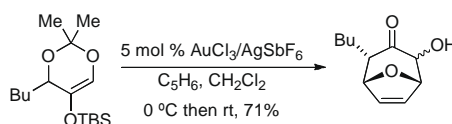


The hitherto unknown (±)-4-methoxydecanoic acid (**1**) was synthesized in six steps and in 25% overall yield starting from 4-penten-1-ol. The title compound demonstrated 17-fold higher antifungal activity (MIC = 1.5 mM) against *Candida albicans* ATCC 60193 and *Cryptococcus neoformans* ATCC 66031 when compared to unsubstituted *n*-decanoic acid. Mid-chain methoxylation appears to be a viable strategy for increasing the fungitoxicity of fatty acids.

A gold-catalyzed [4+3]-cycloaddition of functionalized dioxines

pp 5701–5703

Michael Harmata^{*}, Chaofeng Huang



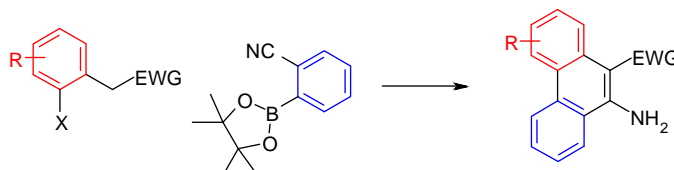
Treatment of 5-silyloxydioxines with 5 mol % AuCl₃/AgSbF₆ in the presence of cyclopentadiene or furan resulted in the rapid formation of [4+3]-cycloadducts at room temperature.



An expedient one-pot synthesis of novel 10-substituted 9-aminophenanthrenes

pp 5704–5708

Christophe Rochais, Rodrigue Yougnia, Patrick Dallemagne^{*}, Sylvain Rault

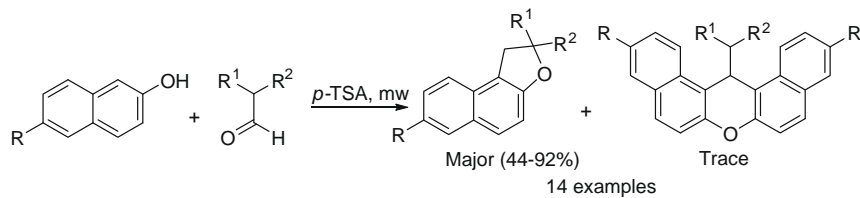


An efficient synthesis of 9,10-disubstituted phenanthrenes is described. These novel useful building blocks were obtained in a one-pot reaction including Suzuki–Miyaura cross-coupling followed by a Dieckmann–Thorpe ring closure under microwave irradiation.

Convenient synthesis of novel 2,2-dialkyl-1,2-dihydronaphtho[2,1-b]furans

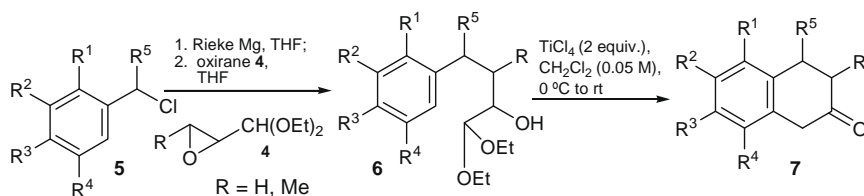
pp 5709–5712

Doug Vaughan, Amitabh Jha *

**A concise method for the synthesis of 2-tetralone by titanium tetrachloride-promoted cyclization of 4-aryl-2-hydroxybutanal diethyl acetal**

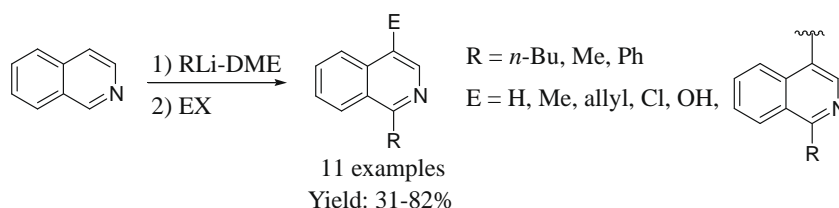
pp 5713–5715

Yung-Son Hon *, Rammohan Devulapally

**Direct 1,4-difunctionalization of isoquinoline**

pp 5716–5718

Frédéric Louërat, Yves Fort, Victor Mamane *

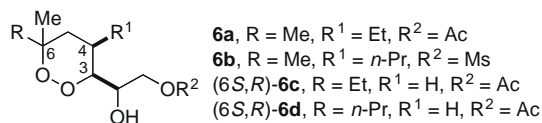


A one-pot procedure comprising a nucleophilic addition followed by an electrophilic trapping is performed in order to functionalize isoquinoline in 1- and 4-positions.

**Synthetic studies toward 1,2-dioxanes as precursors of potential endoperoxide-containing antimalarials**

pp 5719–5722

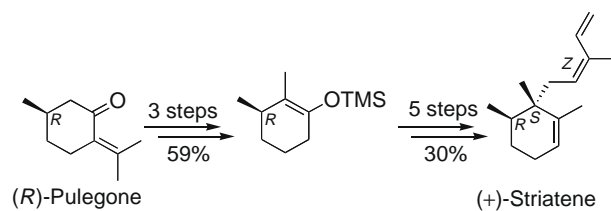
Sandra Gemma, Francesc Martí, Emanuele Gabellieri, Giuseppe Campiani *, Ettore Novellino, Stefania Butini



Synthesis of (+)-striatene: confirmation of its stereostructure

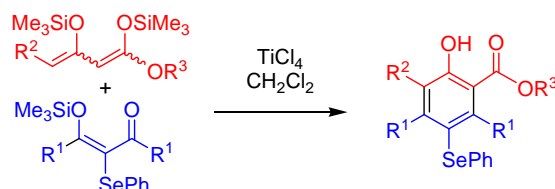
pp 5723–5725

Paul Brémond, Nicolas Vanthuynne, Gérard Audran *

**Synthesis of functionalized diaryl selenides by the first [3+3] cyclocondensations of 1,3-bis(silyloxy)-1,3-butadienes with organoselenium compounds**

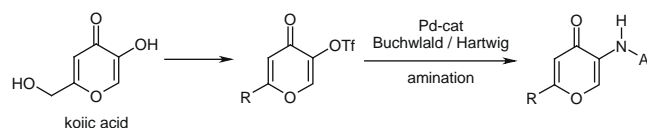
pp 5726–5728

Mohanad Shkooor, Olumide Fatunsin, Abdolmajid Riahi, Alexander Villinger, Peter Langer *

**A convenient synthesis of 5-arylamino-4*H*-pyran-4-ones using palladium-catalyzed amination**

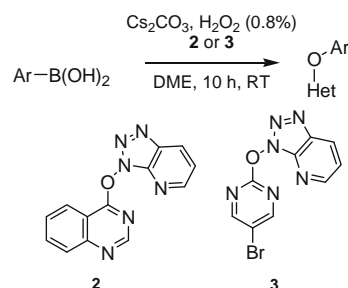
pp 5729–5732

Julien Farard, Cédric Logé, Bruno Pfeiffer, Brigitte Lesur, Muriel Duflos *

A concise approach to 5-arylamino-4*H*-pyran-4-ones is described via palladium-catalyzed amination reaction.**Hydrogen peroxide mediated formation of heteroaryl ethers from pyridotriazol-1-yloxy heterocycles and arylboronic acids**

pp 5733–5736

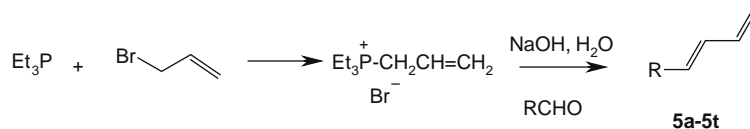
Sujata Bardhan, Keiko Tabei, Zhao-Kui Wan, Tarek S. Mansour *



Aqueous Wittig reactions of semi-stabilized ylides. A straightforward synthesis of 1,3-dienes and 1,3,5-trienes

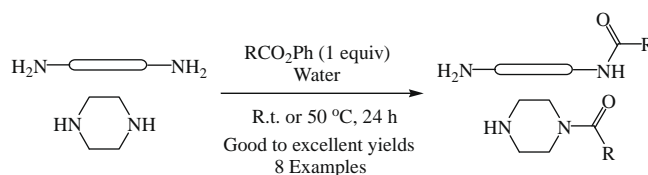
pp 5737–5740

James McNulty*, Priyabrata Das

**Phenyl esters, preferred reagents for mono-acylation of polyamines in the presence of water**

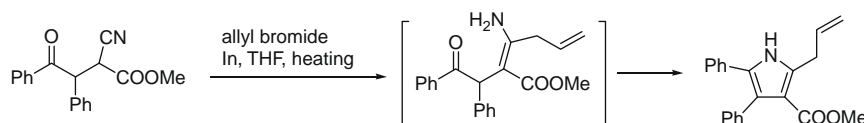
pp 5741–5743

Kyrie Pappas, Xiang Zhang, Wei Tang, Shiyue Fang*

**An expedient synthesis of poly-substituted pyrroles from γ -ketonitriles via indium-mediated Barbier reaction strategy**

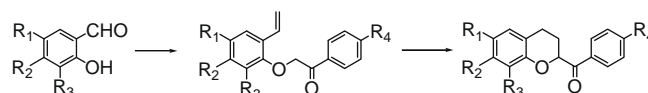
pp 5744–5747

Sung Hwan Kim, Se Hee Kim, Ka Young Lee, Jae Nyoun Kim*

**A novel carbanion-olefin intramolecular cyclization: synthesis of substituted 2-aryl-3,4-dihydro-2H-benzopyrans from salicylaldehydes**

pp 5748–5750

Liang-Yeu Chen, Sie-Rong Li, Po-Yuan Chen, Ian-Lih Tsai, Chia-Ling Hsu, Hsin-Ping Lin, Tzu-Pin Wang, Eng-Chi Wang*

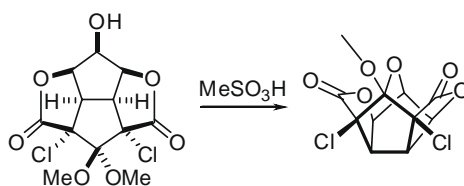


Through a sequence of a Wittig reaction, O-alkylation, and carbanion-olefin intramolecular cyclization, salicylaldehydes were converted into a series of new 2-aryl-3,4-dihydro-2H-benzopyrans in two steps or in one-pot reaction.



Synthesis of 9-oxa-noradamantane derivative, an aesthetically pleasing ‘oxa-basket’

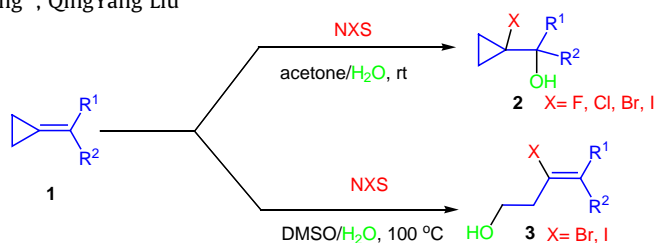
pp 5751–5753

Faiz Ahmed Khan^{*}, Ch. Nageswara Rao

Dichloro bis- γ -lactone readily undergoes acid mediated mixed ketal formation to furnish a 9-oxa-noradamantane derivative. Replacement of chlorines with hydrogens or allyl groups results in the formation of hydrolysis product rather than cyclization.

Halohydroxylation of alkylidenecyclopropanes using *N*-halosuccinimide (NXS) as the halogen source: an efficient synthesis of halocyclopropylmethanol and 3-halobut-3-en-1-ol derivatives

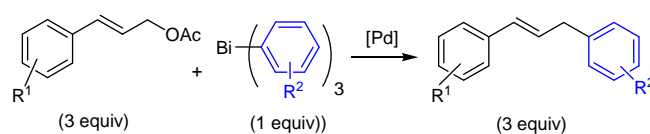
pp 5754–5756

Yewei Yang, Chenliang Su, Xian Huang^{*}, QingYang Liu

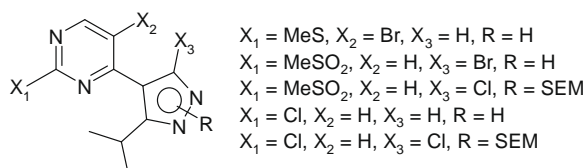
A variety of halocyclopropyl-methanol and 3-halo-but-3-en-1-ol derivatives were prepared in moderate to excellent yields via the simple halohydroxylation reaction of alkylidenecyclopropanes with convenient and mild sources of electrophilic halogen NXS (X = I, Br, Cl, F) and H₂O. A plausible mechanism for the halohydroxylation has been proposed.

**Arylations of allylic acetates with triarylbi-muths as atom-efficient multi-coupling reagents under palladium catalysis**

pp 5757–5761


Maddali L. N. Rao^{*}, Debasis Banerjee, Somnath Giri**Chemo- and regioselective halogenation of 4-(pyrazol-4-yl)-pyrimidines**

pp 5762–5764

Young Shin Cho^{*}, Ying Hou, Christine H.-T. Chen, Moo Je Sung

A convenient and selective halogenation of 4-(pyrazol-4-yl)-pyrimidines is described herein. This method allows quick access to a diverse set of pyrazolyl-pyrimidine derivatives.

*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[®]



ELSEVIER

Available online at www.sciencedirect.com

 ScienceDirect

ISSN 0040-4039