

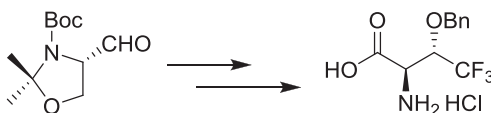
**Tetrahedron Letters Vol. 51, No. 41, 2010**

**Contents**

**COMMUNICATIONS**

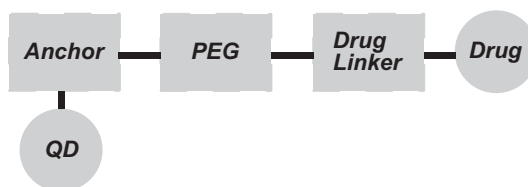
**Efficient synthesis of (2*R*,3*S*)-2-amino-3-(benzyloxy)-4,4,4-trifluorobutanoic acid (4,4,4-trifluoro-OBn-D-allothreonine)** pp 5361–5363

Chun-min Zeng, Sean A. Kerrigan, John A. Katzenellenbogen, Connie Slocum, Kyla Gallacher, Maysoun Shomali, C. Richard Lyttle, Gary Hattersley, Chris P. Miller\*



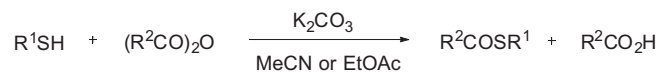
**Synthesis of new macromolecular, functionalized carboxylic-acid-PEG-DHLA surface ligands** pp 5364–5367

Serge Mignani\*, Jozsef Aszodi, Didier Babin, Mélanie Liutkus, Olivier Bedel\*



**A simple acylation of thiols with anhydrides** pp 5368–5371

Andrea Temperini\*, Diego Annesi, Lorenzo Testaferri, Marcello Tiecco



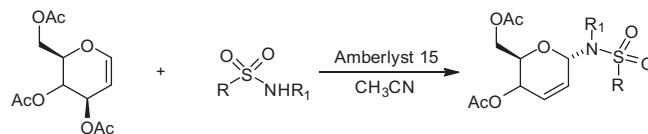
A convenient acylation of thiols with different anhydrides in the presence of potassium carbonate has been developed.



**Efficient synthesis of 2,3-unsaturated sulfonamidoglycosides by Amberlyst 15**

pp 5372–5374

Carlos A. Témpera, Pedro A. Colinas\*, Rodolfo D. Bravo

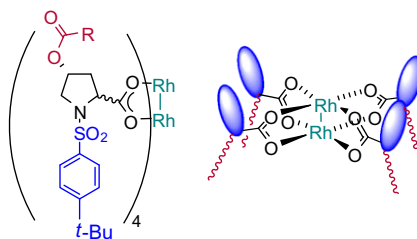


Sulfonamidoglycosylation of glycals in the presence of Amberlyst 15 proceeded effectively to afford the sulfonamidoglycosides in good to high yields. Two *N*-glycosyl sulfonamides are inhibitors of tumor cell growth in the micromolar range.

**Rh(II) catalysts with 4-hydroxyproline-derived ligands**

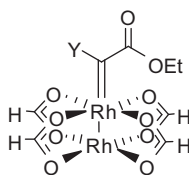
pp 5375–5377

Hanne Therese Bonge, Massoud Kaboli, Tore Hansen\*

**Insights on Rh(II) carbenoid reactivity**

pp 5378–5381

Hanne Therese Bonge, Tore Hansen\*



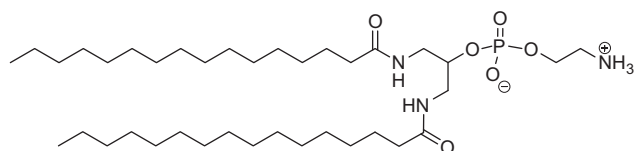
14 carbenoids studied

A computational study on a range of Rh(II) carbenoids shows how carbenoid stability and cyclopropanation diastereoselectivity can be affected by certain properties of the carbenoid substituents.

**The synthesis of 1,3-diamidophospholipids**

pp 5382–5384

Illya A. Fedotenko, Pierre-Leonard Zaffalon, France Favarger, Andreas Zumbuehl\*



The synthesis of 1,3-diamidophospholipids with varying chain lengths is described.

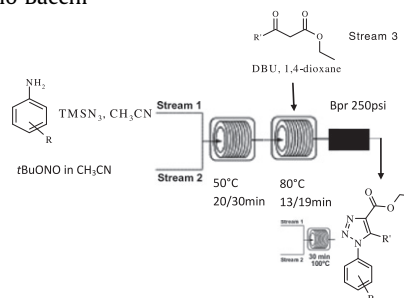


### Highly efficient and safe procedure for the synthesis of aryl 1,2,3-triazoles from aromatic amine in a continuous flow reactor

pp 5385–5387

Federica Stazi\*, Damiano Cancogni, Lucilla Turco, Pieter Westerduin, Sergio Bacchi\*

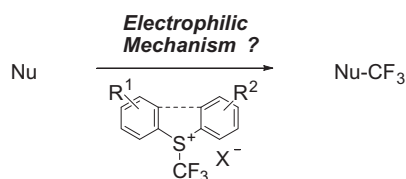
The Letter reports a safe and reliable synthesis of aryl 1,2,3-triazoles from the corresponding anilines via intermediate aryl azides, using a continuous process. The method was applied to a variety of substrates with good to excellent yields, without the need to isolate the reactive and possibly unstable intermediates which were constantly kept at low concentration in the matrix environment.



### Mechanistical insight into 'electrophilic' trifluoromethylation with *S*-(trifluoromethyl)dibenzothiophenium salts

pp 5388–5391

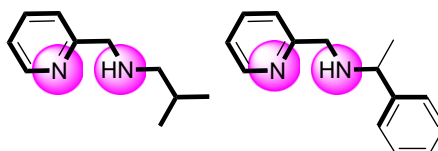
Yohan Macé, Charlotte Pradet, Matthew Popkin, Jean-Claude Blazejewski, Emmanuel Magnier\*



### Simple pyridylmethylamines: efficient and robust *N,N*-ligands for Suzuki–Miyaura coupling reactions

pp 5392–5394

Maria-Agatha Gunawan, Chunjing Qiao, Isabelle Abrunhosa-Thomas, Bertrand Puget, Jean-Philippe Roblin, Damien Prim\*, Yves Troin\*

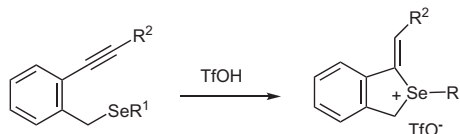


Pyridylmethylamine-Pd catalytic systems exhibit robust compromise between catalytic efficiency, substrate compatibility, and practical aspects.

### Regioselective electrophilic cyclization of *o*-ethynylbenzyl phenyl selenides to (*Z*)-1-methylidene-2-phenyl-1,3-dihydro-1*H*-benzo[*c*]selenophenium salts

pp 5395–5398

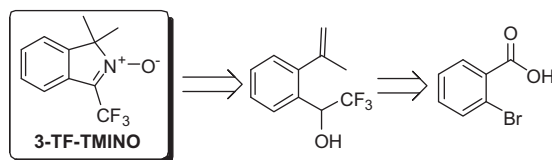
Haruki Sashida\*, Shoko Nakabayashi, Hirokazu Suzuki, Mamoru Kaname, Mao Minoura



### Synthesis and spin trapping properties of 1,1-dimethyl-3-(trifluoromethyl)-1*H*-isoindole N-oxide

pp 5399–5401

Bunpei Hatano\*, Katsunori Miyoshi, Haruna Sato, Tomohiro Ito, Tateaki Ogata, Tatsuro Kijima



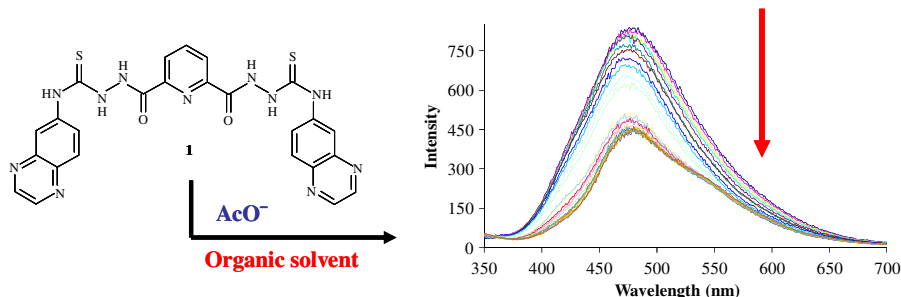
We have achieved an efficient synthesis of spin trap reagent bearing trifluoromethyl group, 1,1-dimethyl-3-(trifluoromethyl)-1*H*-isoindole N-oxide (**2**), by seven steps from 2-bromobenzoic acid (**3**). A strong and stable ESR signal of the radical adduct of **2** was observed in the presence of *i*-amyloxy radical generated by UV photolysis of *i*-amyl nitrite.



### Fluorescent sensing of anions using a bis-quinoxaline amidothiurea based supramolecular cleft; an example of an anion-induced deprotonation event

pp 5402–5405

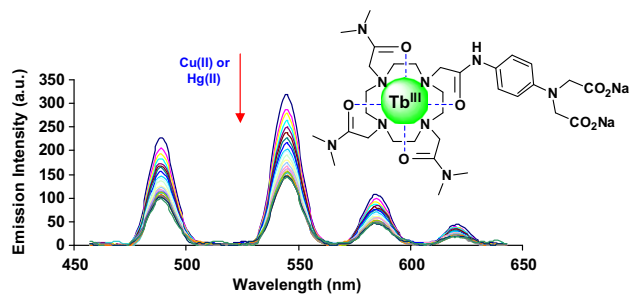
Rebecca M. Duke, Thorfinnur Gunnlaugsson\*



### Lanthanide luminescence sensing of copper and mercury ions using an iminodiacetate-based Tb(III)-cyclen chemosensor

pp 5406–5410

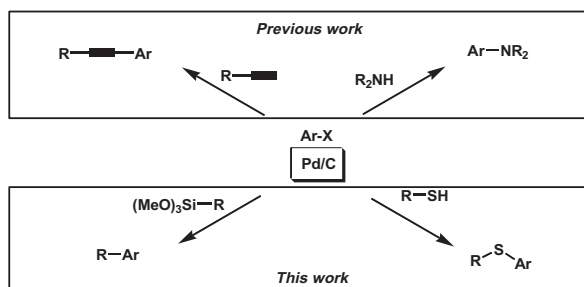
Brian K. McMahon, Thorfinnur Gunnlaugsson\*



### Activity of palladium on charcoal catalysts in cross-coupling reactions

pp 5411–5414

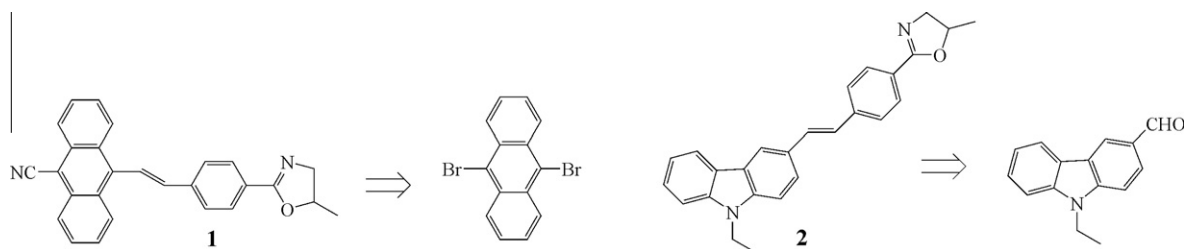
Anna Komáromi, Fruzsina Szabó, Zoltán Novák\*



**The synthesis and spectral properties of new DNA binding ligands**

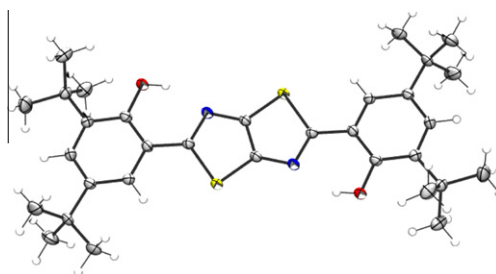
pp 5415–5418

Agata Głuszyńska\*, Kamila Bajor, Izabella Czerwińska, Dominika Kalet, Bernard Juskowiak

**A one-step synthesis towards new ligands based on aryl-functionalised thiazolo[5,4-d]thiazole chromophores**

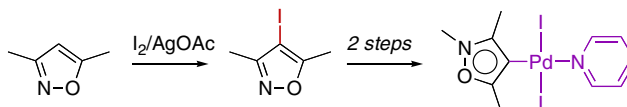
pp 5419–5422

Richard C. Knighton, Andrew J. Hallett, Benson M. Kariuki, Simon J. A. Pope\*

**A new, mild one-pot synthesis of iodinated heterocycles as suitable precursors for N-heterocyclic carbene complexes**

pp 5423–5425

Manuel Iglesias, Oliver Schuster, Martin Albrecht\*

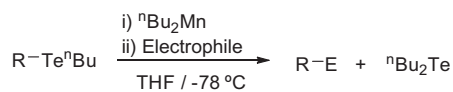


The  $I_2/AgOAc$  couple allows for cheap, mild, and efficient iodination of a variety of heterocycles, which can serve as useful precursors for the synthesis of N-heterocyclic (abnormal) carbene complexes.

**A new approach to organomanganese compounds: the tellurium/manganese exchange reaction**

pp 5426–5429

Márcio S. Silva, João V. Comasseto\*, Alcindo A. Dos Santos\*

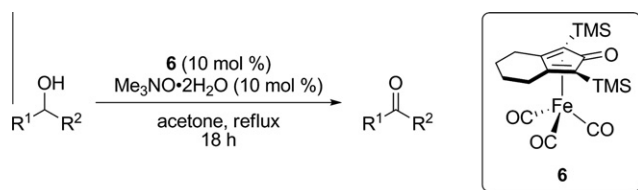


R = aryl, vinyl and alkynyl.

**Air-stable iron catalyst for the Oppenauer-type oxidation of alcohols**

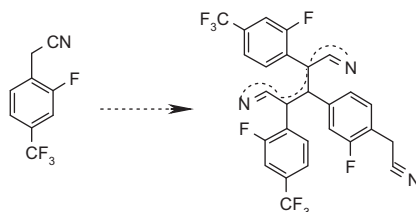
pp 5430–5433

Sara A. Moyer, Timothy W. Funk\*

**Unexpected reactivity of 2-fluoro-4-(trifluoromethyl)-phenylacetonitrile: isolation and characterization of a trimeric impurity**

pp 5434–5436

Federica Stazi\*, Stefano Provera, Ornella Curcuruto, Pieter Westerduin, Sergio Bacchi

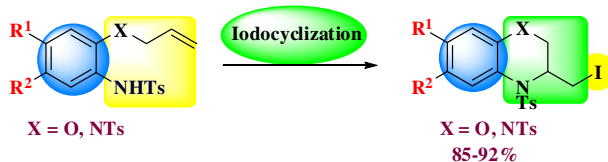


An uncommon reactivity of 2-fluoro-4-(trifluoromethyl)-phenylacetonitrile, with the loss of three fluorine atoms, is herein reported, the resulting trimeric compound isolated and characterized by NMR and MS/MS studies. An unprecedented mechanism has been proposed.

**A new efficient method for the synthesis of 3,4-dihydro-2H-1,4-benzoxazines via iodocyclization**

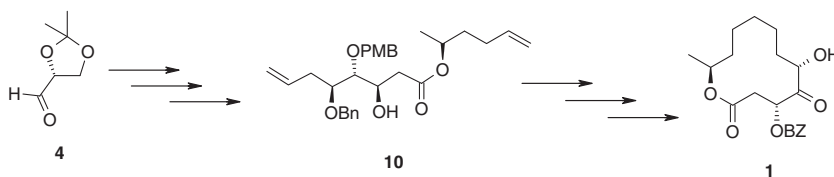
pp 5437–5439

K. C. Majumdar\*, Krishanu Ray, Sudipta Ponra

**Stereoselective total synthesis of cytotoxic sporiolide A**

pp 5440–5442

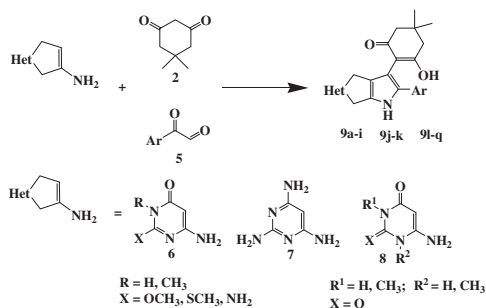
D. Kumar Reddy, K. Rajesh, V. Shekhar, D. Chanti Babu, Y. Venkateswarlu\*



**Generation of pyrrolo[2,3-*d*]pyrimidines. Unexpected products in the multicomponent reaction of 6-aminopyrimidines, dimedone, and arylglyoxal**

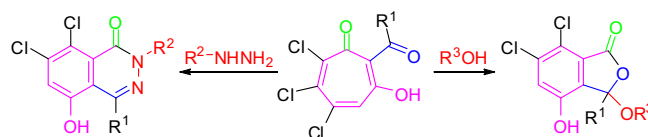
pp 5443–5447

Jairo Quiroga\*, Paola A. Acosta, Silvia Cruz, Rodrigo Abonía, Braulio Insuasty, Manuel Noguera\*, Justo Cobo

**The synthesis of phthalazin-1(2*H*)-ones and 3-hydroxyisobenzofuran-1(3*H*)-ones via the ring contraction of tropones**

pp 5448–5450

Wenjuan Li, Haijun Li, Zhiping Li\*



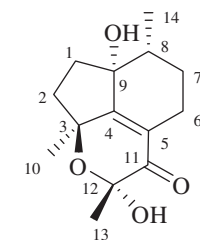
Phthalazin-1(2*H*)-ones and 3-hydroxyisobenzofuran-1(3*H*)-ones were synthesized by the reactions of tropones with hydrazines and alcohols, respectively, via the ring contraction.

**Volvalerenone A, a new type of mononorsesquiterpenoid with an unprecedented 3,12-oxo bridge from *Valeriana officinalis***

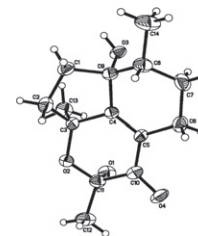
pp 5451–5453

Peng-Cheng Wang, Xin-Hui Ran, Rui Chen, Liang-Chun Li, Shan-Shan Xiong, Yu-Qing Liu, Huai-Rong Luo, Jun Zhou\*, You-Xing Zhao\*

Volvalerenone A (1), a new type of mononorsesquiterpenoid with an unprecedented 5/6/6 tricyclic ring system, was isolated from the roots of *Valeriana officinalis*.



Volvalerenone A (1)

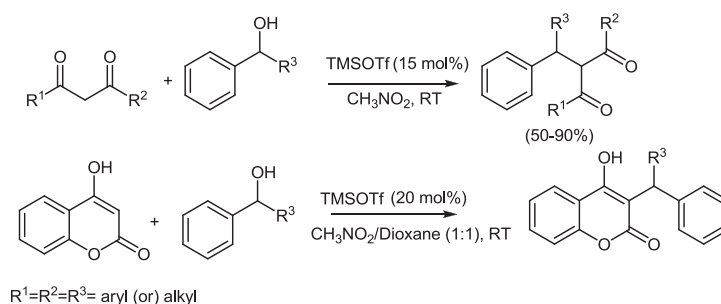


X-ray structure of volvalerenone A (1)

**Benylation of  $\beta$ -dicarbonyl compounds and 4-hydroxycoumarin using TMSOTf catalyst: a simple, mild, and efficient method**

pp 5454–5458

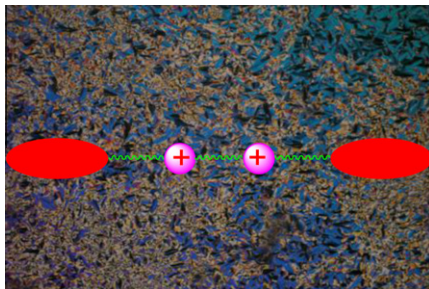
Palani Theerthagiri, Appaswami Lalitha\*



**The first examples of discotic liquid crystalline gemini surfactants**

pp 5459–5462

Sandeep Kumar\*, Satyam Kumar Gupta

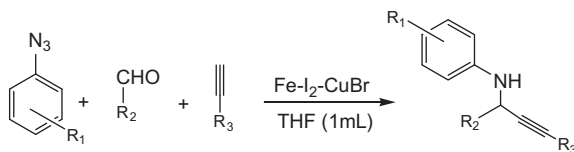


The synthesis, characterization, and physical properties of novel triphenylene-imidazole-based discotic liquid crystalline gemini surfactants are described.

**A novel efficient method for synthesis of propargylamines via three-component coupling of aryl azide, aldehyde, and alkyne promoted by iron-iodine-copper(I) bromide**

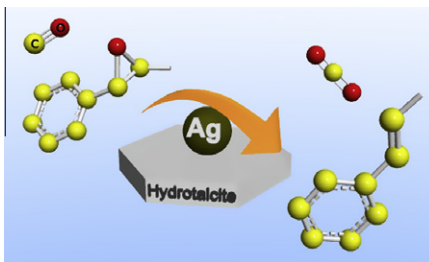
pp 5463–5465

Kui Zhang, You Huang\*, Ruyu Chen

**Selective deoxygenation of styrene oxides under a CO atmosphere using silver nanoparticle catalyst**

pp 5466–5468

Yusuke Mikami, Akifumi Noujima, Takato Mitsudome, Tomoo Mizugaki, Koichiro Jitsukawa, Kiyotomi Kaneda\*

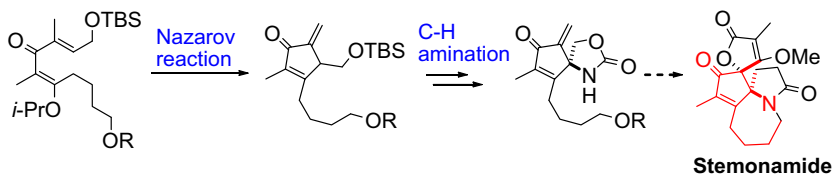


Deoxygenation of styrene oxide derivatives into the corresponding alkenes was efficiently catalyzed by hydrotalcite-supported silver nanoparticles using CO/H<sub>2</sub>O as a reductant.

**Construction of a fully substituted cyclopentenone as the core skeleton of stemonamide via a Nazarov cyclization**

pp 5469–5472

Kentaro Yaji, Mitsuru Shindo\*

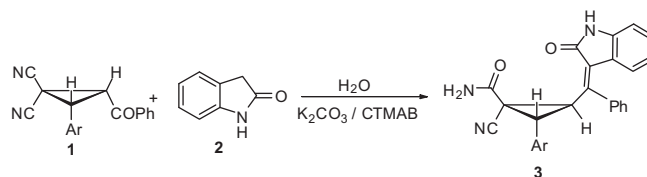




**A new stereoselective approach for the synthesis of substituted 3-cyclopropylmethylene-1,3-dihydro-indol-2-one**  
**via the condensation reaction of *cis*-1-aryl-2-benzoyl-3,3-dicyanocyclopropanes with oxindole in water**

pp 5473–5475

Dong Zhou, Haigang Yu, Ying Liu, Jie Chen, Hongmei Deng, Min Shao, Zhongjiao Ren\*, Weiguo Cao\*



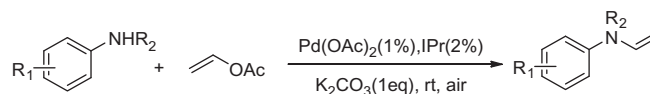
Synthesis of 3-cyclopropylmethylene-1,3-dihydro-indol-2-one.



**Room-temperature palladium(II)-catalyzed N-vinylation of sulfonamides and acylamides with vinyl acetate**  
**as vinyl source**

pp 5476–5479

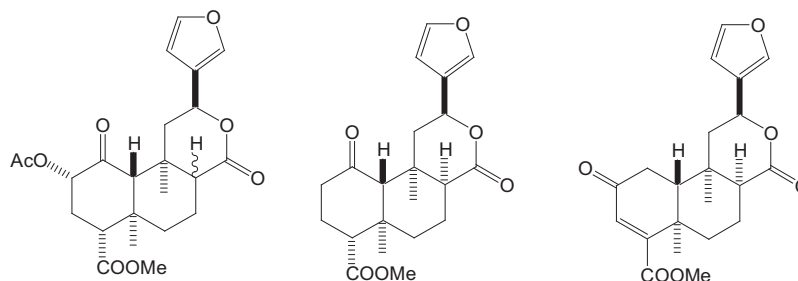
Jun Xu, Yao Fu\*, Bin Xiao, Tianjun Gong, Qingxiang Guo\*



**Thermal degradation products derived from the smoke of *Salvia divinorum* leaves**

pp 5480–5482

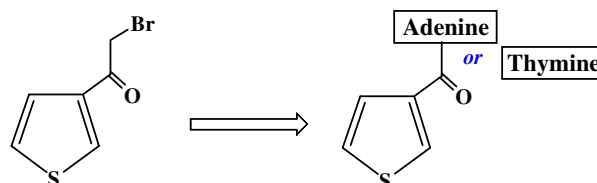
Zhongze Ma, Gang Deng, Ronghua Dai, Wei Xu, Lee-Yuan Liu-Chen, David Y. W. Lee\*



**Synthesis and characterization of nucleobase functionalized monothiophenes**

pp 5483–5485

Christopher D. McTiernan, Mhamed Chahma\*

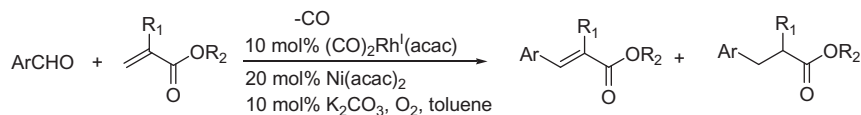


Thiophenes bearing nucleobase moieties have been prepared using 2-bromo-1-thiophen-3-yl-ethanone.

### A novel catalytic decarbonylative Heck-type reaction and conjugate addition of aldehydes to unsaturated carbonyl compounds

pp 5486–5489

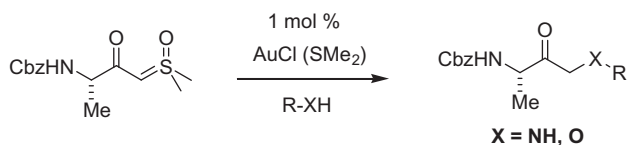
Luo Yang, Camille A. Correia, Xiangyu Guo, Chao-Jun Li\*



### Gold (I) catalysis of X–H bond insertions

pp 5490–5492

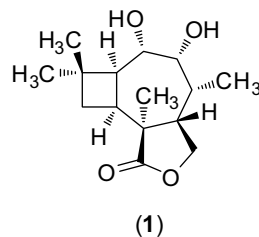
Ian K. Mangion\*, Mark Weisel



### Structure elucidation of some highly unusual tricyclic *cis*-caryophyllane sesquiterpenes from *Marasmiellus troyanus*

pp 5493–5496

Liam Evans, John Hedger, Gemma O'Donnell, Brian W. Skelton, Allan H. White, R. Thomas Williamson, Simon Gibbons\*

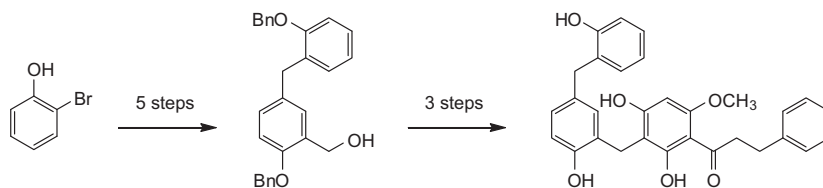


We report the isolation and structure elucidation of novel sesquiterpenes from *Marasmiellus troyanus*. Using NMR spectroscopy, single-crystal X-ray structural analysis and a modified Mosher's ester method, the absolute stereochemistry of the unusual *cis*-caryophyllane sesquiterpene **1** was determined.

### The first total synthesis of the natural product angoluvarin

pp 5497–5499


Charles F. Nutaitis



The first total synthesis of the natural product angoluvarin is described.



\*Corresponding author

 Supplementary data available via ScienceDirect

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