



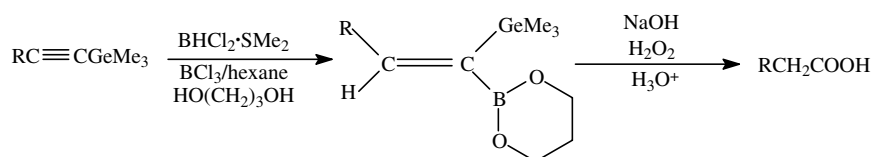
# Contents

## COMMUNICATIONS

# A novel synthesis of (Z)-2-(1-trimethylgermyl-1-alkenyl)-1,3,2-dioxaborinanes and their conversion into carboxylic acids

pp 5109–5111

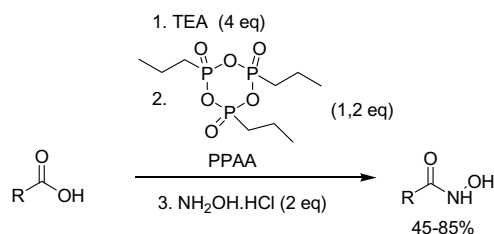
Narayan G. Bhat,\* Zerremi Caga-Anan and Reynaldo Leija



## An expeditious hydroxyamidation of carboxylic acids

pp 5113–5115

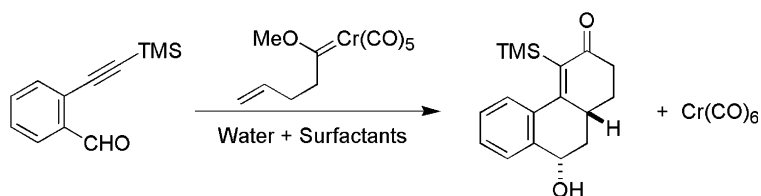
Abdellah Ech-Chahad, Alberto Minassi, Luca Berton and Giovanni Appendino\*



## Synthesis of hydrophenanthrenes through a ‘green’ Fischer carbene–alkyne coupling process

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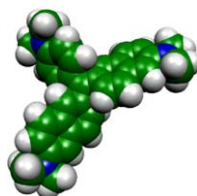
Rongti Li, Lei Zhang, Alejandro Camacho-Davila and James W. Herndon\*



**Synthesis and spectral characterization of bisnaphthylmethyl and trisnaphthylmethyl cations**

pp 5121–5125

Lionel Sanguinet, Robert J. Twieg,\* Greg Wiggers, Guilin Mao, Kenneth D. Singer and Rolfe G. Petschek

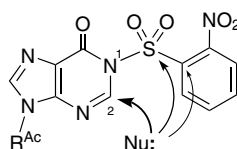


Triarylmethane dyes containing one, two or three naphthalene moieties have been prepared. Their synthesis and spectral characterization are reported here.

**Advantages of the Ns group in the reactions of  $N^1$ -SO<sub>2</sub>R inosines with benzylamine and with  $^{15}\text{NH}_3$** 

pp 5127–5130

Montserrat Terrazas, Xavier Ariza\* and Jaume Vilarrasa\*

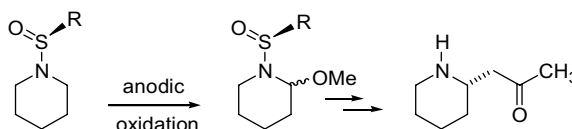


The attack of  $\text{PhCH}_2\text{NH}_2$  and of  $^{15}\text{NH}_3$  on C2 largely predominates over the attack on the sulfur atom and on C<sub>ipso</sub>, in the case of the  $N^1$ -Ns inosine derivative (shown above). The open intermediates arising from the attack on C2 afford the desired  $N^1$ -benzyl and  $N^1$ -labelled inosines, respectively, by heating under appropriate conditions.

**Anodic oxidation of chiral sulfinylamines: a new route to highly diastereoselective  $\alpha$ -alkylation of piperidine**

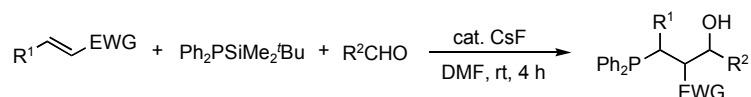
pp 5131–5134

Serge Turcaud, Thierry Martens, Emma Sierecki, Joëlle Pérard-Viret and Jacques Royer\*

**Fluoride-catalyzed three-component coupling reaction of a silylphosphine, activated alkenes and aldehydes**

pp 5135–5138

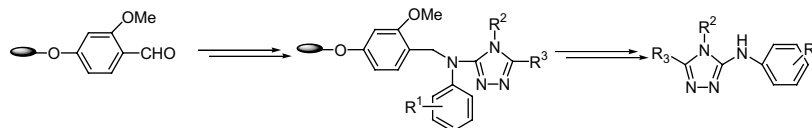
Minoru Hayashi,\* Yutaka Matsuura and Yutaka Watanabe\*



**Traceless liquid-phase synthesis of 3-alkylamino-4,5-disubstituted-1,2,4-triazoles on polyethylene glycol (PEG)**

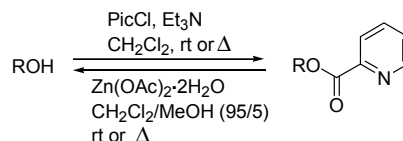
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Ying-Xiao Zong, Jun-Ke Wang,\* Guo-Ren Yue, Lei Feng, Zheng-En Song, Hai Song and Yu-Qi Han

**Picolinyl group as an efficient alcohol protecting group: cleavage with  $\text{Zn}(\text{OAc})_2 \cdot 2\text{H}_2\text{O}$  under a neutral condition**

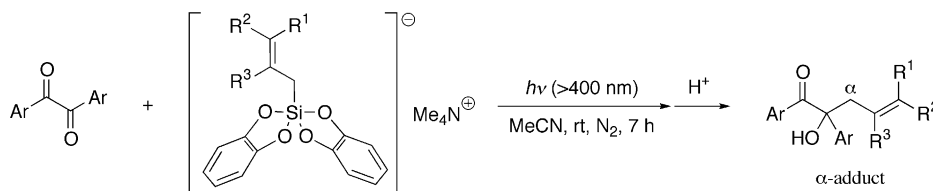
pp 5143–5147

Ju Yuel Baek, Yong-Joo Shin, Heung Bae Jeon\* and Kwan Soo Kim\*

**First examples of hypervalent enhancement of photoallylation by allylsilicon compounds via photoinduced electron transfer**

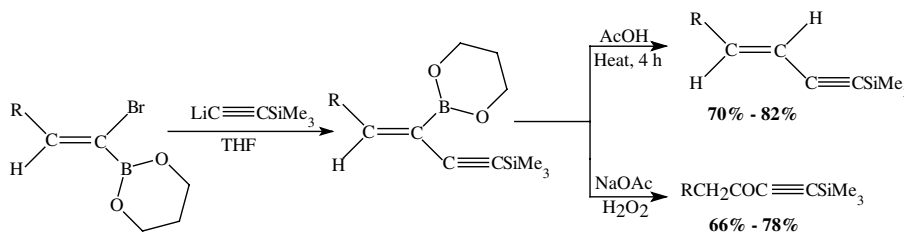
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Yutaka Nishigaichi,\* Akira Suzuki, Takahiro Saito and Akio Takuwa

**A diastereoselective synthesis 1-trimethylsilyl-(E)-1,3-alkenyne and a simple synthesis of alkyl trimethylsilylethynyl ketones via organoboranes**

pp 5153–5155

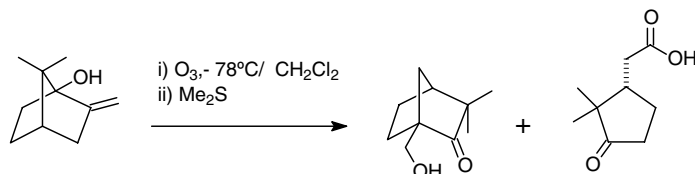
Narayan G. Bhat,\* Patricia Wawroski, Gonzalo Perez-Garcia and Mayra Elizondo



**A new type of anomalous ozonolysis in strained allylic bicycloalkan-1-ols**

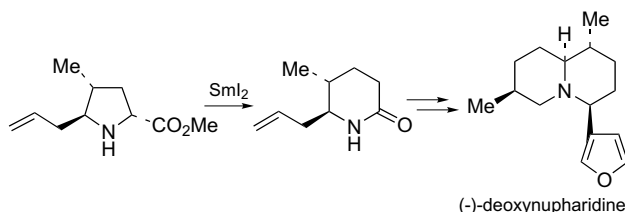
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Antonio García Martínez,\* Enrique Teso Vilar, Amelia García Fraile, Santiago de la Moya Cerero\* and Beatriz Lora Maroto

**Stereoselective synthesis of *Nuphar* quinolizidine alkaloid, (–)-deoxynupharidine**

pp 5161–5163

Miho Katoh, Hirotake Mizutani and Toshio Honda\*

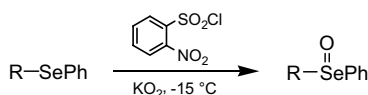


A stereoselective synthetic route to (–)-deoxynupharidine is described that employs reductive carbon–nitrogen bond cleavage of a proline derivative with samarium diiodide and a RCM, as the key steps.

**Synthesis of selenoxides by oxidation of selenides with superoxide radical anions and 2-nitrobenzenesulfonyl chloride**

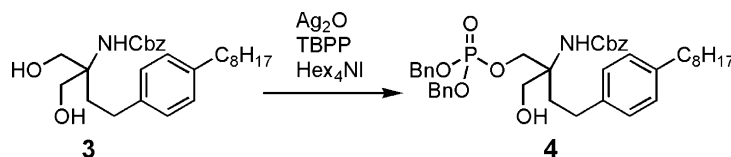
pp 5165–5168

Marcello Tiecco,\* Lorenzo Testaferri, Andrea Temperini, Raffaella Terlizzi, Luana Bagnoli, Francesca Marini and Claudio Santi

**Direct mono-phosphorylation of 1,3-diols. A synthesis of FTY720-phosphate**

pp 5169–5172

Shuzo Takeda,\* Masao Chino, Masatoshi Kiuchi and Kunitomo Adachi



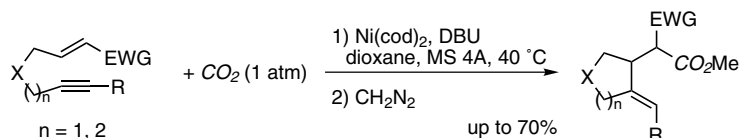
A novel method for selective and direct phosphorylation of various diols using silver(I) oxide, tetrabenzyl pyrophosphate (TBPP), and tetrahexylammonium iodide affording mono-phosphates was developed. We applied the present method to the synthesis of FTY720-phosphate.



**Nickel-mediated carboxylative cyclization of enynes**

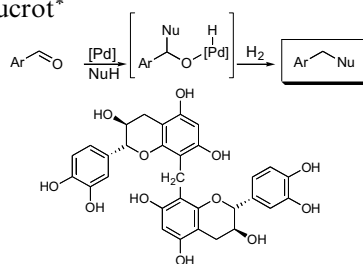
pp 5173–5176

Masanori Takimoto, Takashi Mizuno, Yoshihiro Sato\* and Miwako Mori\*

**Hydrogenation of substituted aromatic aldehydes: nucleophilic trapping of the reaction intermediate, application to the efficient synthesis of methylene linked flavanol dimers**

pp 5177–5180

François-Didier Boyer and Paul-Henri Ducrot\*

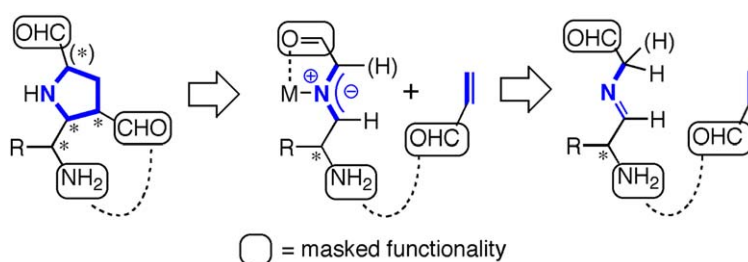


Methylene linked flavanol dimers and analogues have been synthesized through hydrogenation of the corresponding 8-formyl flavanol in the presence of an appropriate nucleophile.

**A stereodivergent cascade imine → azomethine ylide → 1,3-dipolar cycloadditive approach to α-chiral pyrrolidines**

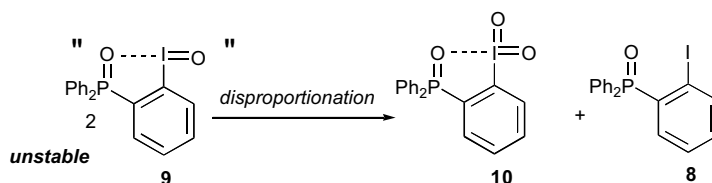
pp 5181–5185

Philip Garner\* and H. Ümit Kaniskan

**ortho-Phosphoryl stabilized hypervalent iodosyl- and iodyl-benzene reagents**

pp 5187–5190

Bindu V. Meprathu, Michael W. Justik and John D. Protasiewicz\*



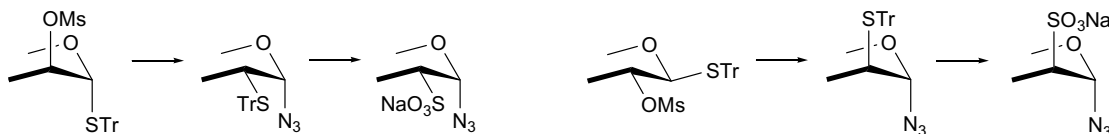
The synthesis and reactivity of a new potential IBX analogue (2-iodylphenyl)diphenyl-phosphine oxide **10** is described herein along with its analysis by single crystal X-ray diffraction.



**Glycosyl azides of sugar 2-sulfonic acids**

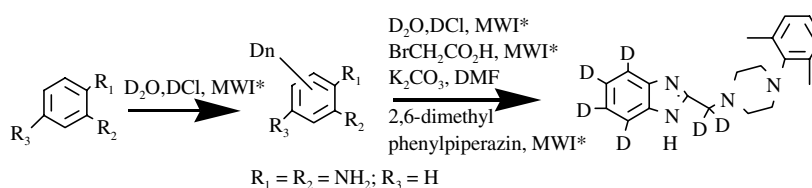
pp 5191–5194

Ferenc Sajtos, László Lázár, Anikó Borbás, István Bajza and András Lipták\*

**Microwave mediated hydrogen deuterium exchange: a rapid synthesis of <sup>2</sup>H-substituted benzimidazole**

pp 5195–5197

Srirajan Vaidyanathan and Bruce W. Surber\*

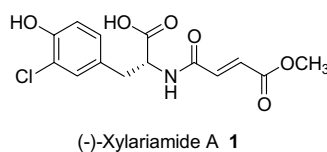


Aromatic deuterium compounds were prepared from the unlabeled parent compounds under microwave irradiation. This novel methodology was applied to the deuterium substituted benzimidazole derivative.

**Synthesis of the fungal natural product (–)-xylariamide A**

pp 5199–5201

Rohan A. Davis\* and Michael Kotiw

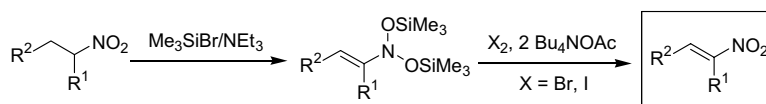


The first synthesis of the fungal natural product (–)-xylariamide A **1** is reported. *N,O*-Bis(trimethylsilyl)acetamide induced coupling of D-tyrosine with (*E*)-but-2-enedioic acid 2,5-dioxo-pyrrolidin-1-yl ester methyl ester **5** produced the dechloro natural product **6**, which was subsequently monochlorinated using oxone and KCl to yield synthetic **1**. (–)-Xylariamide A **1**, (+)-xylariamide A **2** and (–)-dechloroxylariamide A **6** displayed no cytotoxic or antimicrobial activity.

**Novel synthesis of α-nitroalkenes from nitroalkanes via halogenation of intermediate *N,N*-bis(silyloxy)enamines**

pp 5203–5205

Roman A. Kunetsky, Alexander D. Dilman,\* Marina I. Struchkova, Vladimir A. Tartakovsky and Sema L. Ioffe



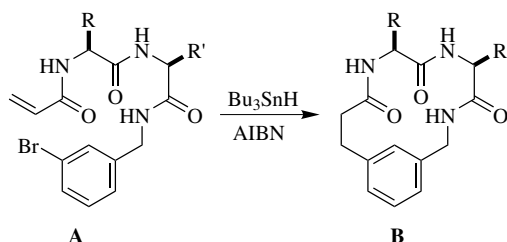
The oxidation of *N,N*-bis(silyloxy)enamines as the key stage in a new synthesis of α-nitroalkenes from nitro compounds is described.



**Synthesis of small cyclic peptides constrained with 3-(3-aminomethylphenyl)propionic acid linkers using free radical-mediated macrocyclization**

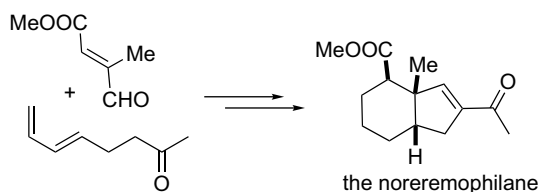
pp 5207–5210

V. Balraju, D. Srinivasa Reddy, Mariappan Periasamy and Javed Iqbal\*

**The first synthesis of a noreremophilane isolated from the roots of *Ligularia przewalskii***

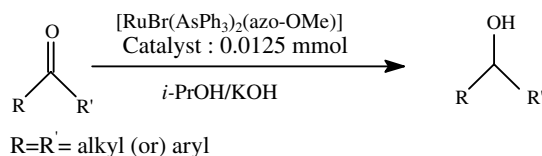
pp 5211–5213

D. Srinivasa Reddy,\* Kalpana Palani, D. Balasubrahmanyam, Viju B. Kamath and Javed Iqbal

**Catalytic transfer hydrogenation of ketones catalyzed by orthometalated ruthenium(III) 2-(aryldiazo)phenolate complexes containing triphenylarsine**

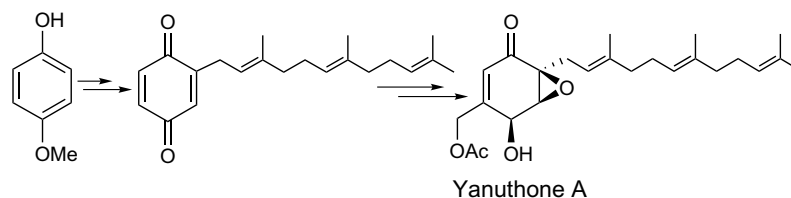
pp 5215–5218

Galmari Venkatachalam and Rengan Ramesh\*

**First total synthesis of yanuthones: novel farnesylated epoxycyclohexenoid marine natural products**

pp 5219–5223

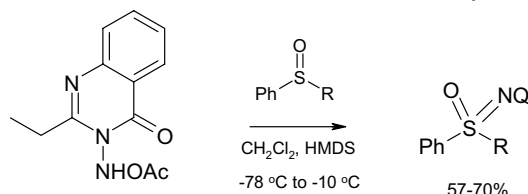
Goverdhan Mehta\* and Subhas Chandra Pan



**Imination of sulfoxides using 3-acetoxyaminoquinazolinone as nitrogen source in the presence of hexamethyldisilazane**

pp 5225–5227

Semistan Karabuga, Cavit Kazaz, Hamdullah Kilic, Sabri Ulukanli\* and Ayhan Celik

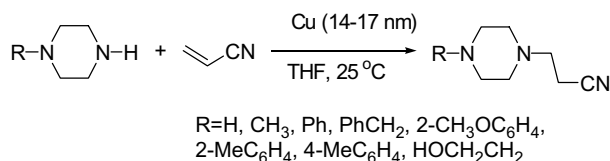


The reaction of 3-acetoxyaminoquinazolinone (QNHOAc) with various sulfoxides in the presence of HMDS as an acetic acid scavenger, afforded the corresponding sulfoximides in good yields. Sulfoximide of phenyl methyl sulfoxide using a Q\*NHOAc having a stereogenic centre on its 2-position gave the products in 1.3:1 ratio of diastereomers.

**Cu-nanoparticles: a chemoselective catalyst for the aza-Michael reactions of *N*-alkyl- and *N*-arylpiperazines with acrylonitrile**

pp 5229–5232

Akhilesh K. Verma,\* Rupesh Kumar, Preeti Chaudhary, Amit Saxena, Ravi Shankar, Subho Mozumdar and Ramesh Chandra



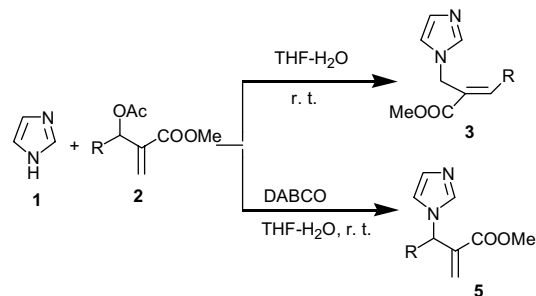
Cu-nanoparticles, 14–17 nm in size, efficiently catalyse the Michael-type reaction of *N*-alkyl- and *N*-arylpiperazines with acrylonitrile in high yield under mild reaction conditions.


**Remarkable rate acceleration of water-promoted nucleophilic substitution of Baylis–Hillman acetate: a facile and highly efficient synthesis of *N*-substituted imidazole**

pp 5233–5237

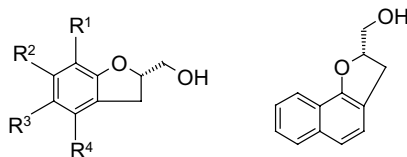
Jian Li, Xiaoxia Wang and Yongmin Zhang\*

Without additional reagents, the Baylis–Hillman acetates **2** underwent nucleophilic substitution reaction with imidazole readily in aqueous THF solution to afford the corresponding *N*-substituted imidazole derivatives **3** in good to excellent yields. Moreover, the reaction between the in situ generated DABCO salt of Baylis–Hillman acetates **4** and imidazole occurs in aqueous THF providing the  $S_N2$  type products **5**. The simpler operational procedure, better stereoselectivity, and higher efficiency over conventional methods make the present protocol practical for the preparation of imidazole derivatives.


**A new synthetic approach to enantiomerically enriched dihydrobenzofurans: use of a hydrolytic kinetic resolution and an intramolecular epoxide ring opening protocol using 1-benzyloxy-2-oxiranylmethylbenzenes**

pp 5239–5242

Umadevi Bhoga


**1a-c****13a****1a** : R<sup>1</sup> = R<sup>2</sup> = R<sup>4</sup> = H; R<sup>3</sup> = NO<sub>2</sub>**1b** : R<sup>1</sup> = R<sup>2</sup> = R<sup>4</sup> = H; R<sup>3</sup> = CH<sub>3</sub>**1c** : R<sup>1</sup> = CH<sub>3</sub>; R<sup>2</sup> = R<sup>4</sup> = H; R<sup>3</sup> = Cl



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\*Corresponding author

+ Supplementary data available via ScienceDirect



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