

**Tetrahedron Letters Vol. 51, No. 16, 2010**

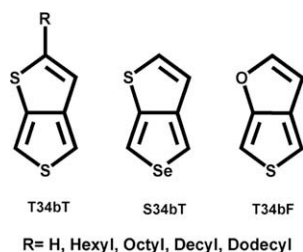
**Contents**

**COMMUNICATIONS**

**Versatile synthesis of 3,4-*b* diheteropentalenes**

pp 2089–2091

Tanmoy Dey, Daminda Navarathne, Michael A. Invernale, Ian D. Berghorn, Gregory A. Sotzing\*



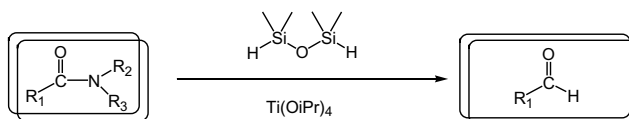
Structures of the fused heterocycles prepared herein.



**A mild titanium-based system for the reduction of amides to aldehydes**

pp 2092–2094

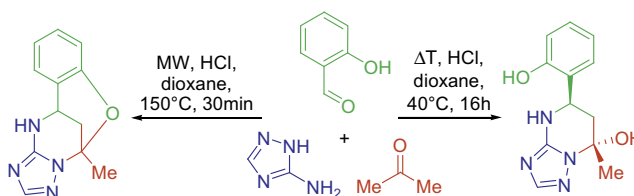
Stéphane Laval, Wissam Dayoub, Alain Favre-Reguillon, Patrice Demonchaux, Gérard Mignani, Marc Lemaire\*



**Unexpected alternative direction of a Biginelli-like multicomponent reaction with 3-amino-1,2,4-triazole as the urea component**

pp 2095–2098

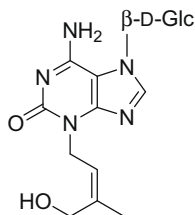
Nikolay Yu. Gorobets, Yuriy V. Sedash, Konstantin S. Ostras, Oleg V. Zarembo, Svetlana V. Shishkina, Vyacheslav N. Baumer, Oleg V. Shishkin, Sergiy M. Kovalenko, Sergey M. Desenko, Erik V. Van der Eycken\*



**Saikachinoside A, a novel 3-prenylated isoguanine glucoside from seeds of *Gleditsia japonica***

pp 2099–2101

Tadashi Kajimoto, Nobuwa Aoki, Emi Ohta, Yasushi Kawai, Shinji Ohta\*

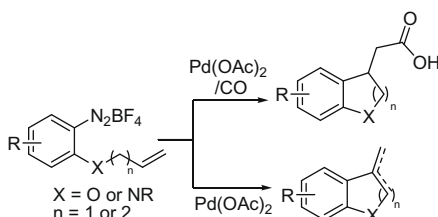


The structure of saikachinoside A was determined on the basis of spectroscopic data and X-ray crystallographic analysis.

**The first intramolecular Heck–Matsuda reaction and its application in the syntheses of benzofurans and indoles**

pp 2102–2105

Fernanda A. Siqueira, Jason G. Taylor, Carlos Roque D. Correia\*

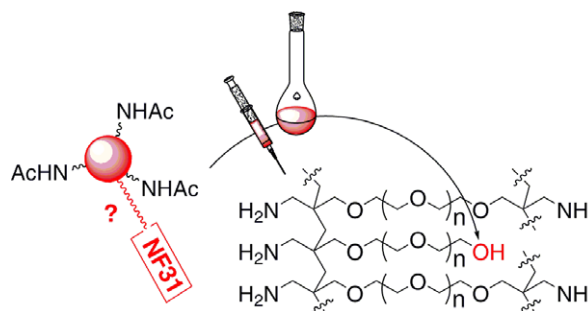


We report, for the first time, the development of an efficient method for the intramolecular Heck reaction of arenediazonium salts in the synthesis of benzofuran and indole derivatives. In addition, this methodology allowed the synthesis of a series of dihydrobenzofuran acetic acid derivatives via a domino Heck–Matsuda coupling–carbonylation reaction.

**NF-31 color test uncovers ‘hidden’ alcohol functionalities in PEG-based resins for solid phase peptide synthesis**

pp 2106–2108

Lieselot L. G. Carrette, Dieter Verzele, Annemieke Madder\*

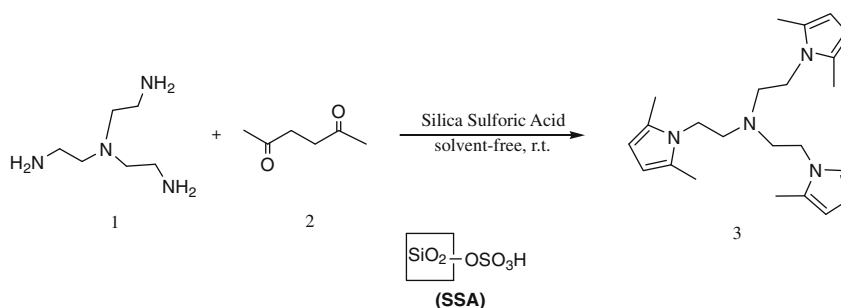


During solid phase peptide synthesis on novel aminomethyl-PEG-based resins, undesired coloration of resins was observed during color tests due to the presence of left-over alcohol functionalities in the base resin. These can participate in ongoing reactions and lead to unexplainable outcomes, if not taken into consideration.

**Silica sulfuric acid (SSA) as a solid acid heterogeneous catalyst for one-pot synthesis of substituted pyrroles under solvent-free conditions at room temperature**

pp 2109–2114

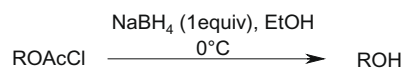
Hojat Veisi



**A simple and selective method for the O-AcCl removal using sodium borohydride**

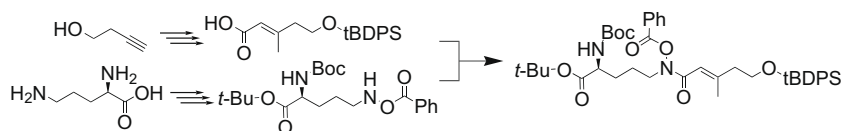
pp 2115–2118

Emmanuelle Villedieu, Chrystel Lopin-Bon, Sabine Berteina-Raboin\*

**Synthesis of the *trans*-fusarinine scaffold**

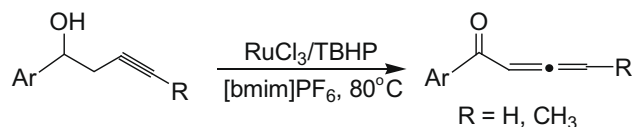
pp 2119–2122

Samuel Bertrand, Olivier Duval\*, Jean-Jacques Hélesbeux, Gérald Larcher, Pascal Richomme

**Ru(III)-catalyzed oxidation of homopropargyl alcohols in ionic liquid: an efficient and green route to 1,2-allenic ketones**

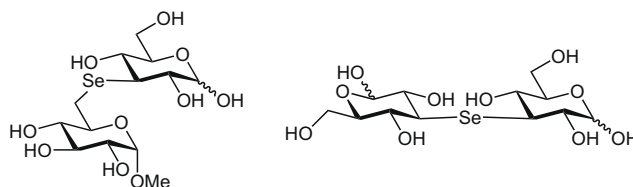
pp 2123–2126

Xuesen Fan\*, Yingying Qu, Yangyang Wang, Xinying Zhang, Jianji Wang

**Synthesis of non-glycosidically linked selenoether pseudodisaccharides**

pp 2127–2129

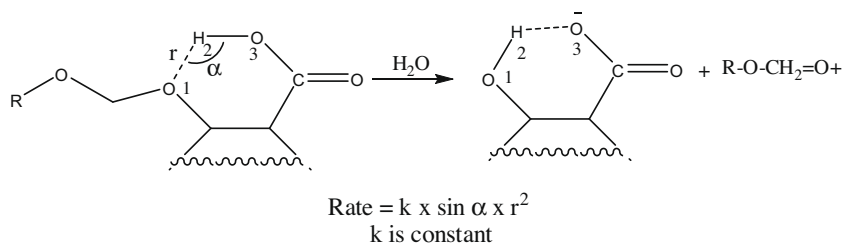
Viviane Fournière, Ian Cumpstey\*



**The efficiency of proton transfer in Kirby's enzyme model, a computational approach**

pp 2130–2135

Rafik Karaman

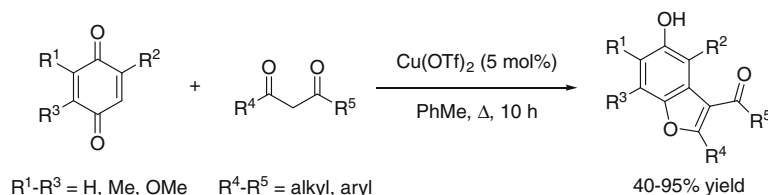


Proximity orientation due to hydrogen bonding in the ground state and transition state is the sole driving force for the remarkable acceleration of proton transfer in Kirby's system.

**Efficient synthesis of 3-acyl-5-hydroxybenzofurans via copper(II) triflate-catalyzed cycloaddition of unactivated 1,4-benzoquinones with 1,3-dicarbonyl compounds**

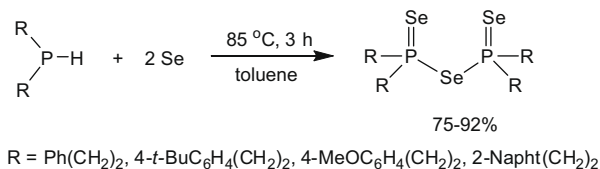
pp 2136–2140

Srinivasa Reddy Mothe, Dewi Susanti, Philip Wai Hong Chan\*

**A novel simple synthesis of bis(diorganoselenophosphoryl)selenides ( $R_2PSe$ )<sub>2</sub>Se from secondary phosphines and elemental selenium**

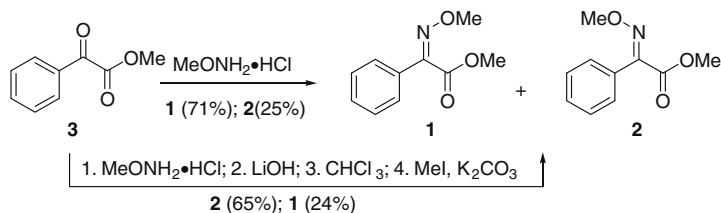
pp 2141–2143

Alexander V. Artem'ev, Nina K. Gusarova, Svetlana F. Malysheva, Igor A. Ushakov, Boris A. Trofimov\*

**Efficient synthesis of (Z)- and (E)-methyl 2-(methoxyimino)-2-phenylacetate**

pp 2144–2147

Yong-Jin Wu\*, Stella Huang, Alicia Ng, Qi Gao, S. Roy Kimura, David R. Langley



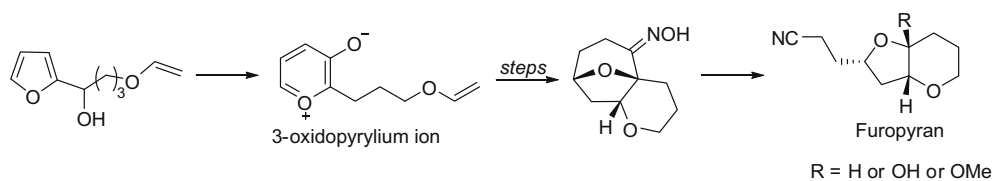
Direct oximation of 2-oxo-2-phenylacetate (**3**) gave the (Z)-methyl 2-(methoxyimino)-2-phenylacetate (**1**) in 71% yield, while the *E* oxime **2** was prepared from **3** in 65% yield via oxime isomerization of 2-(methoxyimino)-2-phenylacetic acid (**5**). Computational studies suggest that the isomerization of **5** is thermodynamically driven, while the direct oximation of ketoester **3** is kinetically controlled.



**An elegant approach for stereocontrolled synthesis of furopyran building blocks**

pp 2148–2150

U. Murali Krishna

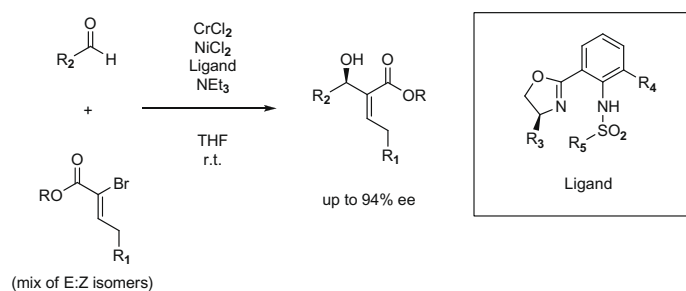


Stereocontrolled synthesis of furopyran building blocks was achieved employing a novel intramolecular [5+2] cycloaddition and Beckmann fragmentation as key steps.

**An asymmetric nickel–chromium coupling toward the synthesis of Baylis–Hillman adducts**

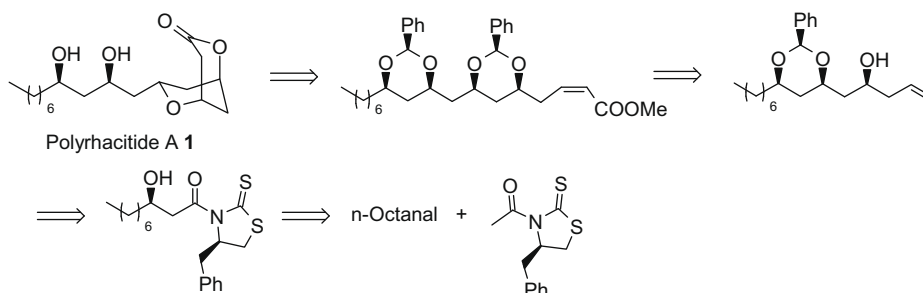
pp 2151–2153

Francis G. Fang, Thomas E. Horstmann\*, Jonathan Therrien

**Stereoselective total synthesis of (+)-polyrhacitide A**

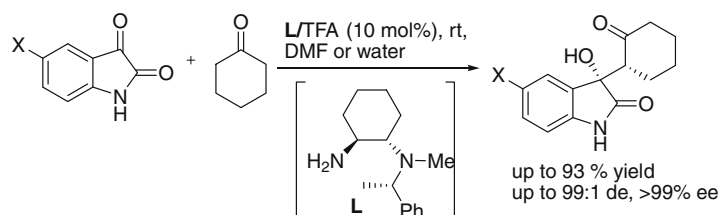
pp 2154–2156

J. S. Yadav\*, G. Rajendar, B. Ganganna, P. Srihari

**Highly enantioselective synthesis of 3-cycloalkane-3-hydroxy-2-oxindoles, potential anticonvulsants**

pp 2157–2159

Monika Raj, Nagarathanam Veerasamy, Vinod K. Singh\*



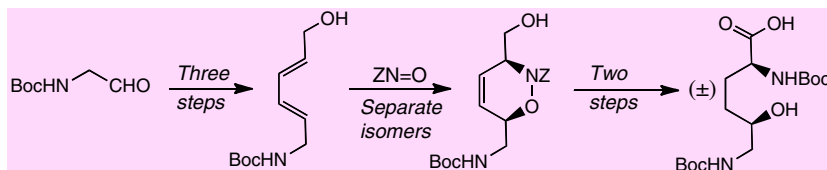
Highly enantioselective catalytic synthesis of 3-cycloalkane-3-hydroxy-2-oxindoles was achieved by using primary-tertiary diamine–Brønsted acid catalyst in both organic medium and aqueous medium.



### Syntheses of structurally diverse amino acids, including $\delta$ -hydroxylysine, using the acyl nitroso Diels–Alder reaction

pp 2160–2163

Lee Bollans, John Bacsa, Daniel A. O'Farrell, Scott Waterson, Andrew V. Stachulski\*



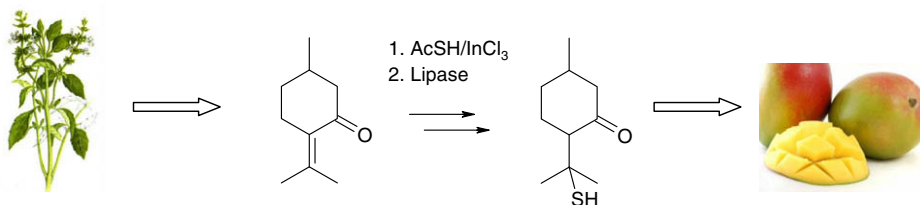
The acyl nitroso Diels–Alder reaction is ideally suited to the synthesis of diverse amino acids, as it introduces *N* and *O* functionalities in a 1,4-relationship with full control of relative stereochemistry. We have utilised this reaction in a short synthesis of (±)- $\delta$ -hydroxylysine, an important constituent of collagen, and describe two further syntheses together with corroborative X-ray structural data.



### Flavouring and odorant thiols from renewable natural resources by $\text{In}^{\text{III}}$ -catalysed hydrothioacetylation and lipase-catalysed solvolysis

pp 2164–2167

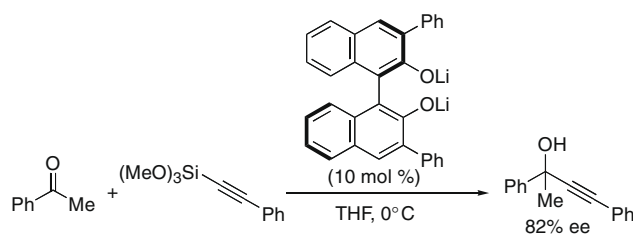
Reine-Marie Dia, Rim Belaqqiz, Abderrahmane Romane, Sylvain Antoniotti\*, Elisabet Duñach



### Enantioselective alkylation of ketones with trimethoxysilylalkynes using lithium binaphtholate as a catalyst

pp 2168–2169

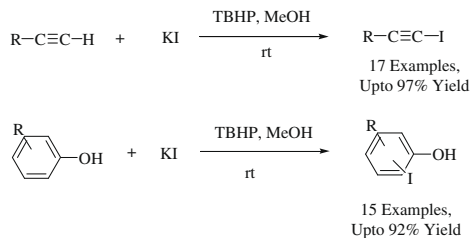
Kana Tanaka, Tomohiro Ueda, Tomonori Ichibakase, Makoto Nakajima\*



### Mild and efficient oxy-iodination of alkynes and phenols with potassium iodide and *tert*-butyl hydroperoxide

pp 2170–2173

K. Rajender Reddy\*, M. Venkateshwar, C. Uma Maheswari, P. Santhosh Kumar



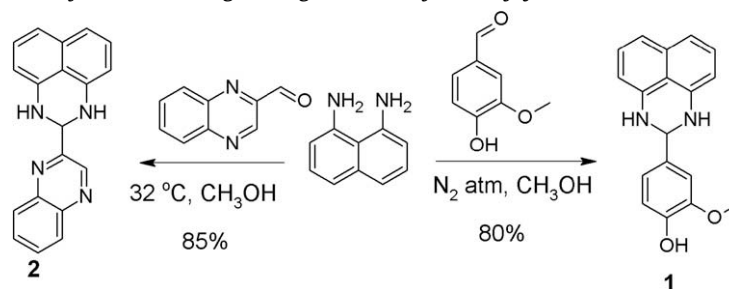
An efficient synthesis of 1-iodoalkynes and iodophenols was easily achieved by employing simple KI and TBHP. The reaction does not involve the use of a metal and base combination. A variety of substituted alkynes and phenols were prepared with good to excellent yield.



**Two new fluorescent heterocyclic perimidines: first syntheses, crystal structure, and spectral characterization**

pp 2174–2177

G. Varsha, V. Arun, P. P. Robinson, Manju Sebastian, Digna Varghese, P. Leeju, V. P. Jayachandran, K. K. M. Yusuff\*

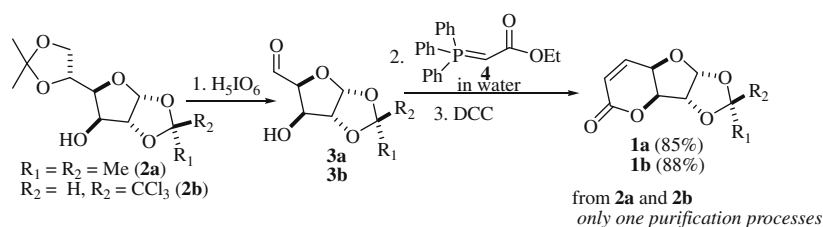


An efficient one-pot synthesis of two new heterocyclic perimidines in good yields is presented. This methodology provides a simple, straightforward synthetic route to these interesting classes of heterocycles. Crystal structure, solvatochromism, and antibacterial activity of these organic compounds are discussed.

**Selective Wittig olefination in aqueous media for the rapid preparation of unsaturated 7,3-lactone- $\alpha$ -D-xylofuranose derivatives**

pp 2178–2180

Elsie Ramirez, Mario Sánchez, Rosa L. Meza-León\*, Leticia Quintero\*, Fernando Sartillo-Piscil\*

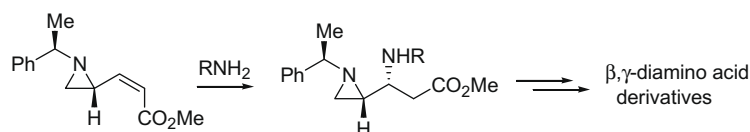


A selective and aqueous Wittig olefination was developed for the rapid preparation of unsaturated 7,3-lactone- $\alpha$ -D-xylofuranose derivatives.

**Conjugate addition of amines to chiral 3-aziridin-2-yl-acrylates**

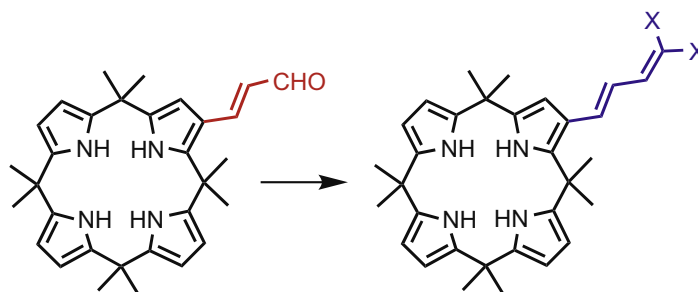
pp 2181–2183

Doo-Ha Yoon, Hyun-Joon Ha\*, Bong Chan Kim, Won Koo Lee\*

**(E)-3-(*meso*-Octamethylcalix[4]pyrrol-2-yl)propenal: a versatile precursor for calix[4]pyrrole-based chromogenic anion sensors**

pp 2184–2187

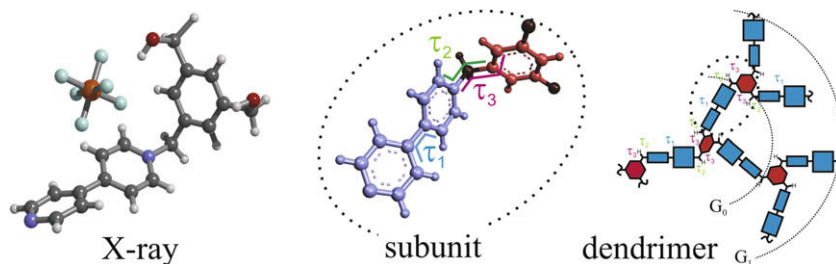
Andreia S. F. Farinha, Augusto C. Tomé\*, José A. S. Cavaleiro



**Viologen-based benzylic dendrimers: selective synthesis of 3,5-bis(hydroxymethyl)benzylbromide and conformational analysis of the corresponding viologen dendrimer subunit**

pp 2188–2192

Murugavel Kathiresan, Lorenz Walder\*, Fei Ye, Hans Reuter

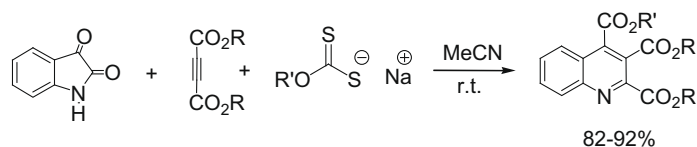


The X-ray structure of a formal branching unit in viologen dendrimers combined with PM3 modelling studies gives access to the viologen dendrimer conformation.


**Formation of trialkyl quinoline-2,3,4-tricarboxylates by reaction of isatin, dialkyl acetylenedicarboxylates, and sodium *O*-alkyl carbonodithioates**

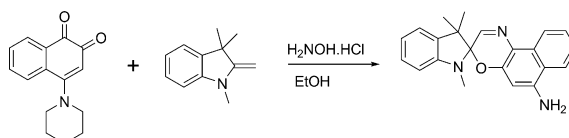
pp 2193–2194

Issa Yavari\*, Samereh Seyfi, Zinatossadat Hossaini


**Synthesis and properties of 1,3,3-trimethylspiro[indoline-2,3'-naphtho[2,1-*b*][1,4]oxazin]-6'-amine, a novel, red colouring photochromic spirooxazine**

pp 2195–2197

Mark York, Richard A. Evans\*



**OTHER CONTENTS**

Errata

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\*Corresponding author

 Supplementary data available via ScienceDirect

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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<sup>®</sup>. Full text available on ScienceDirect<sup>®</sup>

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