

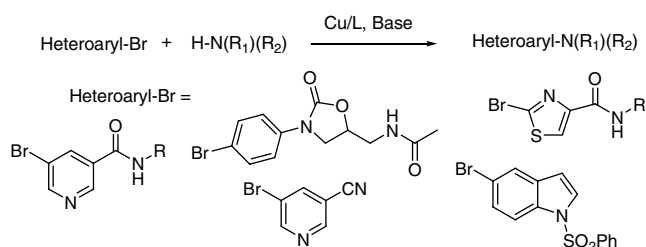
Contents

COMMUNICATIONS

Practical Cu-catalyzed amination of functionalized heteroaryl halides

pp 6011–6016

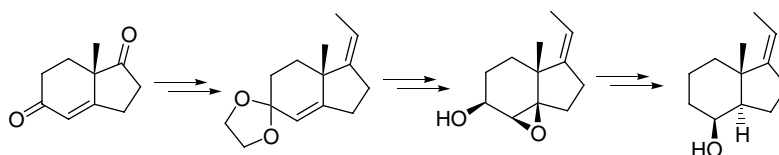
Vince S. C. Yeh\* and Paul E. Wiedeman\*



A new approach to a vitamin D ring C/D building block from the Hajos dione, involving epoxide opening at the more substituted carbon atom

pp 6017–6020

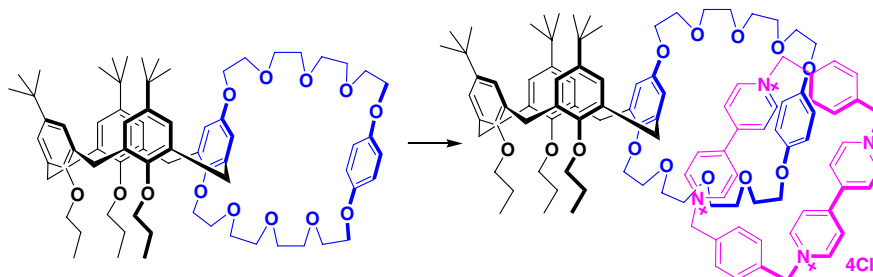
Paweł Chochrek, Alicja Kurek-Tyrlik, Karol Michalak and Jerzy Wicha\*



Synthesis and self-assembly of novel calix[4]arenocrowns: formation of calix[4]areno[2]catenanes

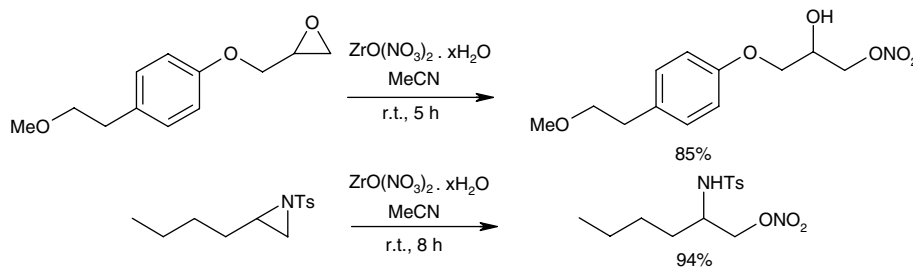
pp 6021–6025

Lin-Gang Lu, Guang-Ke Li, Xiao-Xia Peng, Chuan-Feng Chen\* and Zhi-Tang Huang



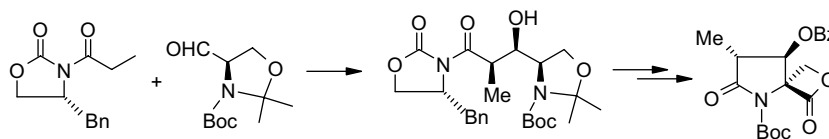
**Zirconyl nitrate mediated regioselective ring opening of epoxides and aziridines: an easy synthesis of  $\beta$ -nitrate-alcohols and -sulfonamides** pp 6027–6029

Biswanath Das,\* Maddeboina Krishnaiah and Katta Venkateswarlu



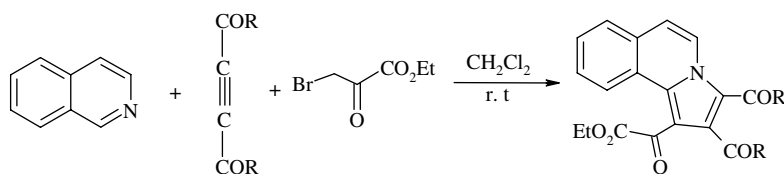
**Synthesis of the spiro fused  $\beta$ -lactone- $\gamma$ -lactam segment of oxazolomycin** pp 6031–6035

Debendra K. Mohapatra,\* Dhananjoy Mondal, Rajesh G. Gonnade, Mukund S. Chorghade and Mukund K. Gurjar



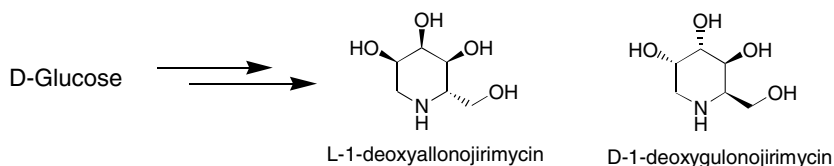
**A synthesis of pyrrolo[2,1-*a*]isoquinolines through the reaction of activated acetylenes and isoquinoline in the presence of ethyl bromopyruvate** pp 6037–6040

Issa Yavari,\* Zinatossadat Hossaini and Maryam Sabbaghan



**A general strategy for the stereoselective synthesis of L-1-deoxyallonojirimycin and D-1-deoxygonojirimycin** pp 6041–6044

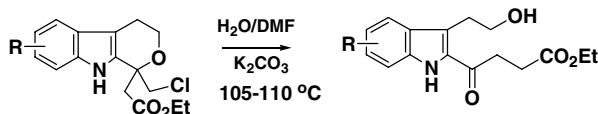
Subhash Ghosh,\* J. Shashidhar and Samit Kumar Dutta



**Base-mediated hydrolytic cleavage with chain migration of 1-chloromethyl-tetrahydropyrano[3,4-*b*]-indoles: an unusual pathway to 2-succinoyl tryptophols**

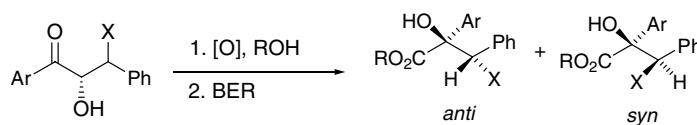
pp 6045–6048

Shan-Yen Chou\* and Ching-Hui Chen


**A simple, highly regioselective, one-pot stereoselective synthesis of tertiary  $\alpha$ -hydroxyesters: a tandem oxidation/benzilic ester rearrangement**

pp 6049–6052

Carolina Silva Marques, Nuno Moura and Anthony J. Burke\*



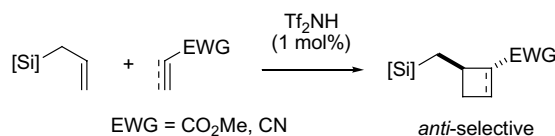
BER = Benzilic Ester Rearrangement

This letter describes the synthesis of  $\alpha$ -hydroxyketones and their stereoselective conversion to chiral tertiary  $\alpha$ -hydroxyesters via a simple, highly regioselective, one-pot tandem oxidation/benzilic ester rearrangement protocol.

**Cyclobutane ring formation by triflic imide catalyzed [2+2]-cycloaddition of allylsilanes**

pp 6053–6056

Kiyosei Takasu,\* Norihiko Hosokawa, Kazato Inanaga and Masataka Ihara\*

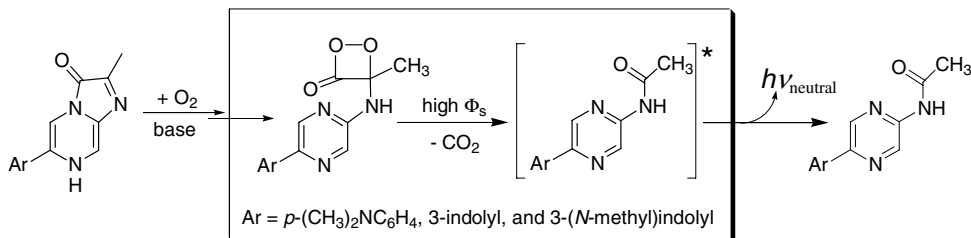


Cyclobutane forming [2+2]-cycloaddition reactions of allylsilane with electron-deficient olefin is promoted by triflic imide ( $\text{Tf}_2\text{NH}$ ).

**Chemiluminescence of 6-aryl-2-methylimidazo[1,2-*a*]pyrazin-3(7*H*)-ones in DMSO/TMG and in diglyme/acetate buffer: support for the chemiexcitation process to generate the singlet-excited state of neutral oxyluciferin in a high quantum yield in the *Cypridina* (*Vargula*) bioluminescence mechanism**

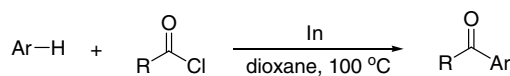
pp 6057–6061

Yuto Takahashi, Hiroyuki Kondo, Shojiro Maki, Haruki Niwa, Hiroshi Ikeda and Takashi Hirano\*

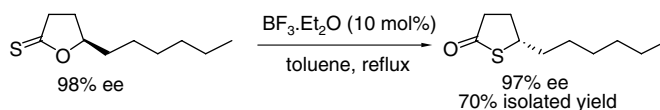


**Highly selective catalytic Friedel–Crafts acylation and sulfonylation of activated aromatic compounds using indium metal** pp 6063–6066

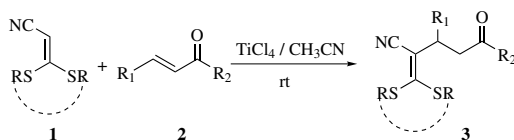
Doo Ok Jang,\* Kyung Soo Moon, Dae Hyan Cho and Joong-Gon Kim


**Lewis acid-catalysed isomerisation of thionolactones to thiolactones: inversion of configuration** pp 6067–6070

Jean-Jacques Filippi, Xavier Fernandez and Elisabet Duñach\*


**TiCl<sub>4</sub> mediated Michael addition reactions of  $\alpha$ -cyanoketene-*S,S*-acetals with enones** pp 6071–6074

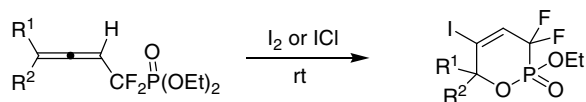
Yanbing Yin, Qian Zhang,\* Jia Li, Shaoguang Sun and Qun Liu\*



Promoted by titanium tetrachloride, the Michael addition reactions of  $\alpha$ -cyanoketene-*S,S*-acetals **1** with enones **2** led to the polyfunctionalized 2-[1,3]dithiolan-2-ylidene-3-substituted-5-oxo-5-substituted-pentanenitriles **3** in good to high yields.


**First iodocyclization of  $\beta$ -allenic phosphonates: a novel synthesis of  $\alpha$ -difluoromethylenephosphones** pp 6075–6078

Yun Lin and Jin-Tao Liu\*

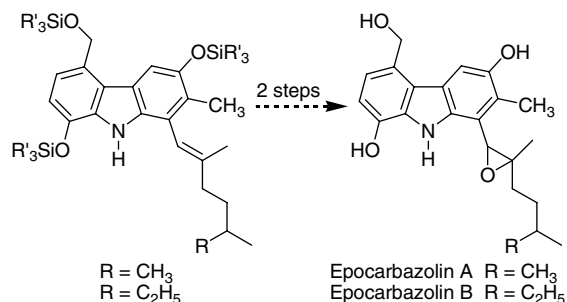


**First total synthesis of (±)-epocarbazolin A and epocarbazolin B, and asymmetric synthesis of (–)-epocarbazolin A via Shi epoxidation**

pp 6079–6082

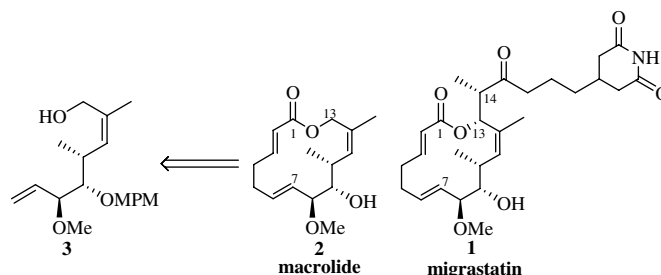
Jan Knöll and Hans-Joachim Knölker\*

Epoxidation of the trisilyl-protected carbazomadurins A and B with dimethyldioxirane followed by desilylation provides racemic epocarbazolin A and epocarbazolin B. The Shi epoxidation has been applied to an asymmetric synthesis of (–)-epocarbazolin A.


**A convergent synthesis of the macrolide core of migrastatin**

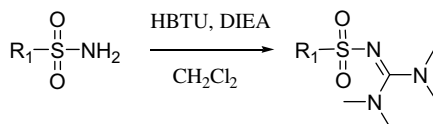
pp 6083–6086

V. Sai Baba, Parthasarathi Das,\* K. Mukkanti and Javed Iqbal\*


**Efficient synthesis of tetramethylsulfonylguanidines between a free sulfonamide group and HBTU**

pp 6087–6090

Sébastien Gluszok, Laurence Goossens, Patrick Depreux\* and Jean-Pierre Hénichart

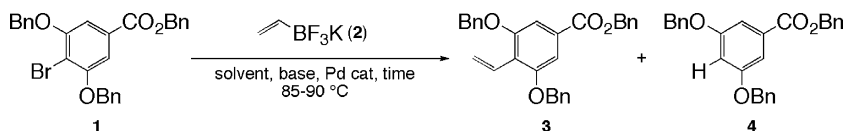


One pot synthesis of tetramethylsulfonylguanidines was developed using HBTU (*O*-(1*H*-benzotriazol-1-yl)-*N,N,N',N'*-tetramethyluronium hexafluorophosphate).

**Initial investigation into the Suzuki–Miyaura vinylation of hindered aryl bromides utilizing potassium vinyltrifluoroborate**

pp 6091–6094

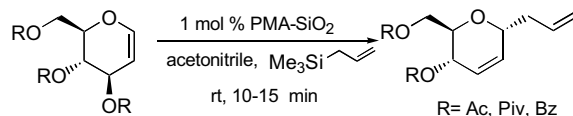
Rhiannon R. Carter and Justin K. Wyatt\*



An initial study of the Suzuki–Miyaura cross-coupling of potassium vinyltrifluoroborate (2) and hindered aryl bromides is presented. Coupling of benzyl 3,5-bis(benzyloxy)-4-bromobenzoate (1) leads to a mixture of the desired styrene derivative, 3, and the reduced product, 4.

**Phosphomolybdic acid supported on silica gel: a mild, efficient and reusable catalyst for the synthesis of 2,3-unsaturated glycopyranosides by Ferrier rearrangement** pp 6095–6098

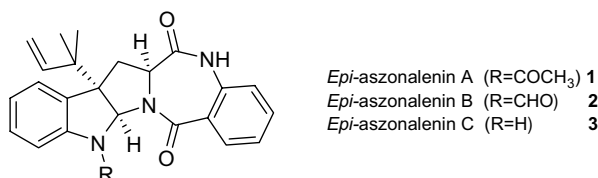
J. S. Yadav,\* M. Satyanarayana, E. Balanarsaiah and S. Raghavendra



***epi*-Aszonalenins A, B, and C from *Aspergillus novofumigatus***

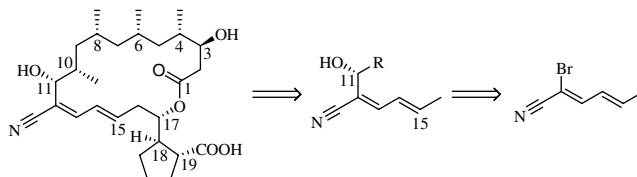
pp 6099–6102

Christian Rank,\* Richard Kerry Phipps, Pernille Harris, Jens Christian Frisvad, Charlotte Held Gotfredsen and Thomas Ostenfeld Larsen



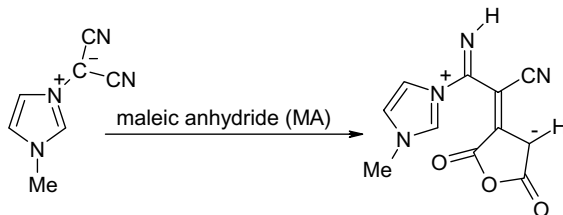
**Studies towards the total synthesis of (–)-borrelidin: a strategy for the construction of the C11–C15 cyanodiene fragment and the utility of RCM for macrocyclization using model systems** pp 6103–6106

C. Vamsee Krishna, Santanu Maitra, R. Vasu Dev, K. Mukkanti and Javed Iqbal\*



**Spirally twisted imidazolium iminyl ylide structures from 1,2-rearrangements in reactions of imidazolium dicyanomethanide 1,3-dipoles with maleic anhydride: new perspectives on the Boekelheide–Fedoruk ring expansions** pp 6107–6111

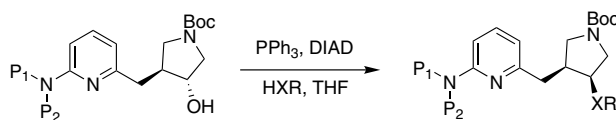
Richard N. Butler,\* Helena A. Gavin, Eamon M. Moloney, Patick McArdle, Desmond Cunningham and Luke A. Burke



Remote protection prevents unwanted cyclizations with 2-aminopyridines

pp 6113–6115

Graham R. Lawton, Haitao Ji and Richard B. Silverman\*



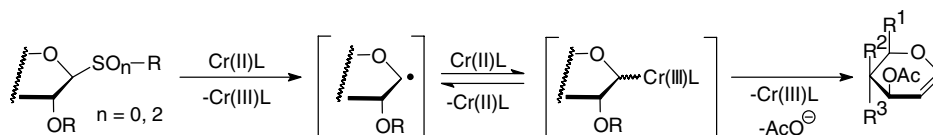
P<sub>1</sub>, P<sub>2</sub> = Boc, H Yield: 0 %  
 P<sub>1</sub>, P<sub>2</sub> = Boc, Bn Yield: 86 %



Reactivity of per-*O*-acetylated 1-thioglycosides and glycosyl sulfones towards chromium(II) complexes in aqueous medium

pp 6117–6120

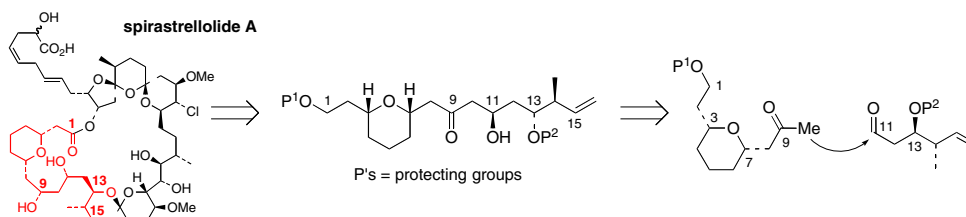
Károly Micskei,\* Zsuzsa Juhász, Zoran R. Ratković and László Somsák\*



Synthesis of the C1–C16 fragment of spirastrellolide A

pp 6121–6123

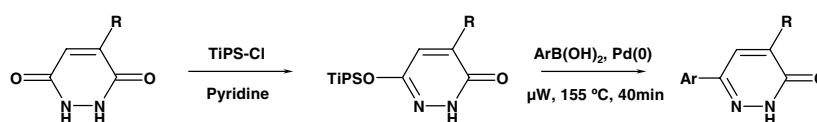
Jia Liu, Jin Haek Yang, Changhong Ko and Richard P. Hsung\*



Sequential regio and chemoselective cross-coupling reactions by means of *O*<sup>6</sup>-tri-isopropylsulfonate of 4-bromo-pyridazine 3,6-dione

pp 6125–6128

João X. de Araújo-Júnior, Martine Schmitt,\* Pascal Benderitter and Jean-Jacques Bourguignon

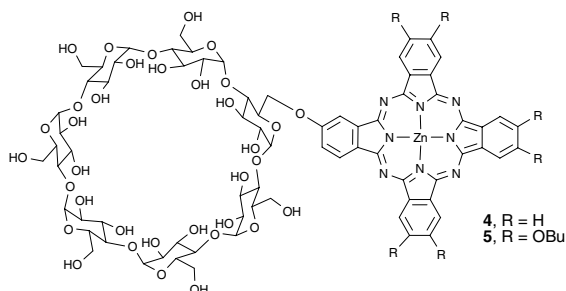


**First phthalocyanine- $\beta$ -cyclodextrin dyads**

pp 6129–6132

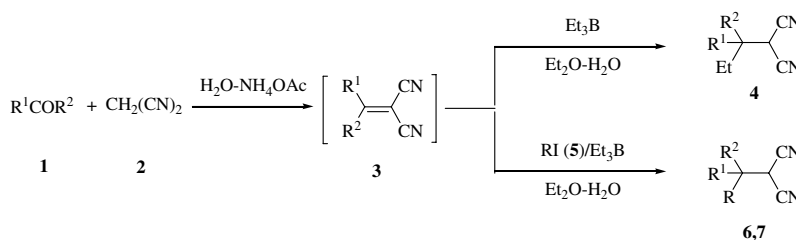
Anderson O. Ribeiro, João P. C. Tomé, Maria G. P. M. S. Neves, Augusto C. Tomé, José A. S. Cavaleiro,\* Osvaldo A. Serra and Tomás Torres

Novel water-soluble phthalocyanine- $\beta$ -cyclodextrin dyads were prepared via a statistical cross condensation of a 4-( $\beta$ -cyclodextrin)phthalonitrile with known phthalonitriles.

**One-pot synthesis of malononitriles by free radical reactions of ylidenemalononitrile with  $\text{Et}_3\text{B}$  and iodoalkane in a water-ether biphasic medium**

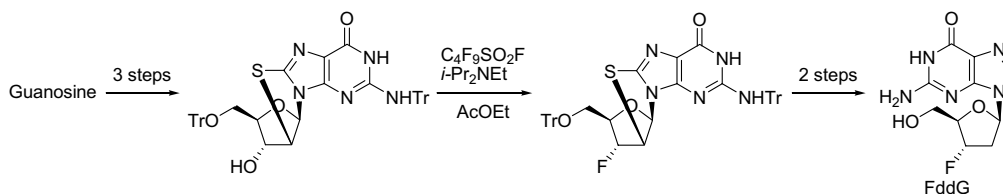
pp 6133–6137

Zhijay Tu, Chunchi Lin, Yaochung Jang, Yeong-Jiunn Jang, Shengkai Ko, Hulin Fang, Ju-Tsung Liu and Ching-Fa Yao\*

**A concise synthesis of 3'- $\alpha$ -fluoro-2',3'-dideoxyguanosine (FddG) via 3'- $\alpha$ -selective fluorination of 8,2'-thioanhydronucleoside**

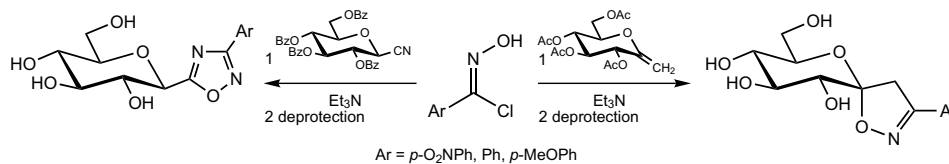
pp 6139–6141

Takayoshi Torii, Tomoyuki Onishi,\* Kunisuke Izawa and Tokumi Maruyama

**1,3-Dipolar cycloaddition reactions on carbohydrate-based templates: synthesis of spiro-isoxazolines and 1,2,4-oxadiazoles as glycogen phosphorylase inhibitors**

pp 6143–6147

Mahmoud Bentifa, Sébastien Vidal, David Gueyraud, Peter G. Goekjian, Moncef Msaddek and Jean-Pierre Praly\*

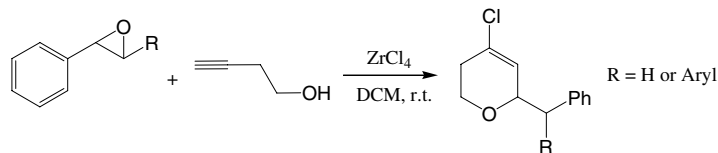




**ZrCl<sub>4</sub> mediated cyclization between epoxides and homopropargylic alcohols: synthesis of 4-chloro-5,6-dihydro-2H-pyran derivatives**

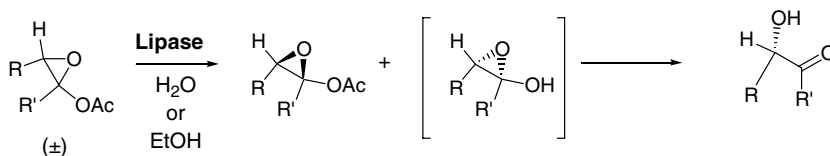
pp 6149–6151

J. S. Yadav, K. Rajasekhar and M. S. R. Murty\*

**First lipase catalysed resolution of epoxy enol esters**

pp 6153–6157

Sébastien Gravil, Henri Veschambre, Robert Chênevert and Jean Bolte\*



\*Corresponding author

Supplementary data available via ScienceDirect



Full text of this journal is available, on-line from **ScienceDirect**. Visit [www.sciencedirect.com](http://www.sciencedirect.com) for more information.

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>



ELSEVIER

ISSN 0040-4039