

Graphical abstracts

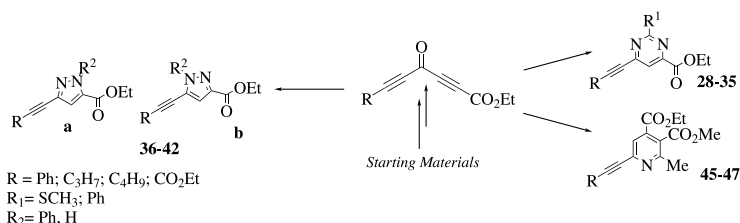
Practical routes to diacetylenic ketones and their application for the preparation of alkynyl substituted pyridines, pyrimidines and pyrazoles

Tetrahedron 59 (2003) 2197

Mauro F. A. Adamo,^{a,*} Robert M. Adlington,^a Jack E. Baldwin,^a Gareth J. Pritchard^b and Richard E. Rathmell^a

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^bDepartment of Chemistry, Loughborough University, Epinal Way, Loughborough, Leicestershire LE11 3TU, UK

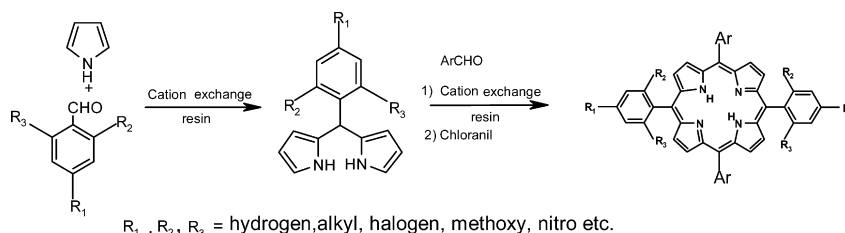


Facile synthesis of *meso*-substituted dipyrromethanes and porphyrins using cation exchange resins

Tetrahedron 59 (2003) 2207

Rajan Naik,^{*} Padmakar Joshi,^{*} Sharada P. Kaiwar (nee Vakil) and Rajesh K. Deshpande

Department of Organic Chemistry (Synthesis), National Chemical Laboratory, Pune 411008, India

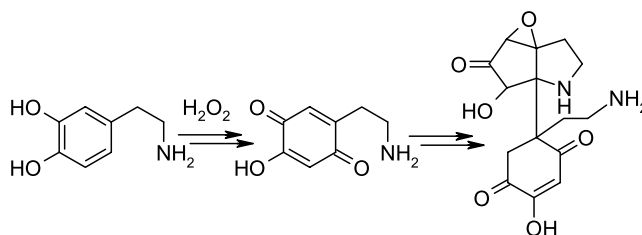


A novel hydrogen peroxide-dependent oxidation pathway of dopamine via 6-hydroxydopamine

Tetrahedron 59 (2003) 2215

Paola Manini, Lucia Panzella, Alessandra Napolitano^{*} and Marco d'Ischia

Department of Organic Chemistry and Biochemistry, University of Naples 'Federico II', Complesso Universitario Monte S. Angelo, Via Cinthia 4, I-80126 Naples, Italy

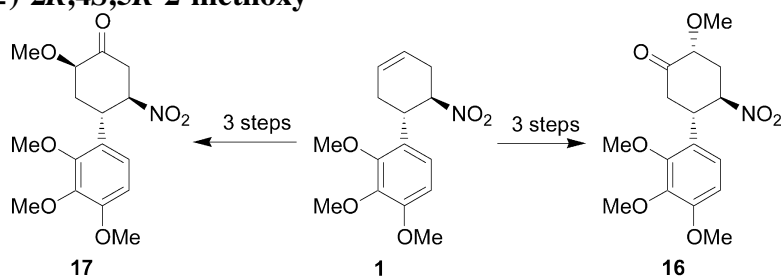


Synthesis of (±)-2*R*,4*R*,5*S*-2-methoxy-4-nitro-5-(2,3,4-trimethoxyphenyl)cyclohexanone and (±)-2*R*,4*S*,5*R*-2-methoxy-5-nitro-4-(2,3,4-trimethoxyphenyl)cyclohexanone as colchicine mimetics

Tetrahedron 59 (2003) 2223

Karen Anderson Evans, Kebede Beshah, David H. Young, Ted T. Fujimoto, Colin M. Tice and Enrique L. Michelotti^{*}

Rohm and Haas Company, P.O. Box 904, 727 Norristown Road, Spring House, PA 19477-0904, USA



Potency against HCT-116 tumor cells: **17** > **1** > **16**

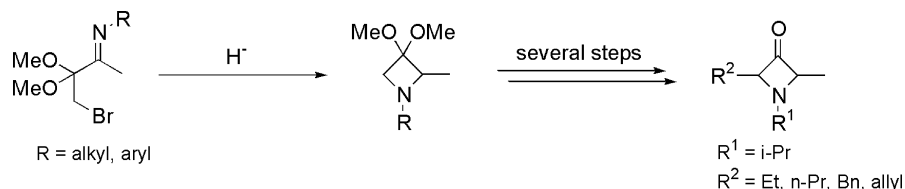
Synthesis of 1-alkyl-2-methylazetidion-3-ones and 1-alkyl-2-methylazetidion-3-ols

Tetrahedron 59 (2003) 2231

Antonio Salgado, Yves Dejaegher, Guido Verniest, Mark Boeykens, Christine Gauthier, Christelle Lopin, Kouroush Abbaspour Tehrani and Norbert De Kimpe*

Department of Organic Chemistry, Faculty of Agricultural and Applied Biological Sciences, Ghent University, Coupure links 653, B-9000 Gent, Belgium

The synthesis and the structure of the title compounds are described.



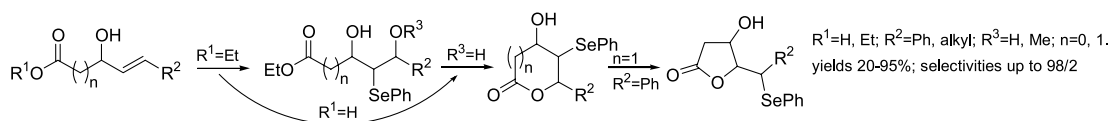
Studies on the stereoselective selenolactonization, hydroxy and methoxy selenenylation of α - and β -hydroxy acids and esters. Synthesis of δ - and γ -lactones

Tetrahedron 59 (2003) 2241

Carmela Aprile,^a Michelangelo Gruttadauria,^{a,*} Maria E. Amato,^b Francesca D'Anna,^a Paolo Lo Meo,^a Serena Riela^a and Renato Noto^a

^a*Dipartimento di Chimica Organica 'E. Paternò', Viale delle Scienze, Parco d'Orleans II, 90128 Palermo, Italy*

^b*Dipartimento di Scienze Chimiche, Viale A. Doria 6, 95125 Catania, Italy*



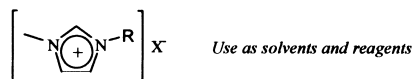
Ionic liquids as reagents and solvents in conjunction with microwave heating: rapid synthesis of alkyl halides from alcohols and nitriles from aryl halides

Tetrahedron 59 (2003) 2253

Nicholas E. Leadbeater,^{a,*} Hanna M. Torenius^a and Heather Tye^b

^a*Department of Chemistry, King's College London, Strand, London WC2R 2LS, United Kingdom*

^b*Evotec OAI, 151 Milton Park, Abingdon, Oxfordshire, OX14 4SD, United Kingdom*



Synthesis of novel HIV-1 protease inhibitors based on carbohydrate scaffolds

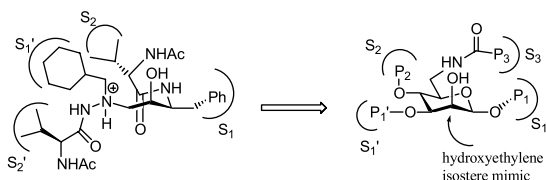
Tetrahedron 59 (2003) 2259

Paul V. Murphy,^{a,*} Julie L. O'Brien,^a Lorraine J. Gorey-Feret^b and Amos B. Smith, III^{c,*}

^a*Department of Chemistry, Centre for Synthesis and Chemical Biology, Conway Institute of Biomolecular and Biomedical Research, University College Dublin, Belfield, Dublin 4, Ireland*

^b*Bristol-Myers Squibb Pharmaceutical Company, Wilmington, DE, USA*

^c*Department of Chemistry, University of Pennsylvania, Philadelphia, PA 19104, USA*

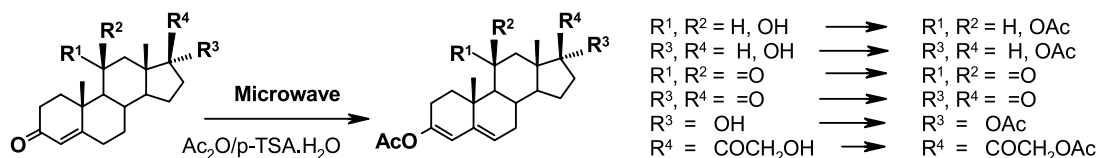


Microwave induced selective enolization of steroidal ketones and efficient acetylation of sterols in semisolid state

Padma Marwah, Ashok Marwah and Henry A. Lardy*

Department of Biochemistry, Institute for Enzyme Research, University of Wisconsin at Madison, 1710 University Avenue, Madison, WI 53726, USA

Tetrahedron 59 (2003) 2273



Exploring the potential of xanthene derivatives as trypanothione reductase inhibitors and chloroquine potentiating agents

Kelly Chibale,^{a,*} Mark Visser,^a Donnelly van Schalkwyk,^b Peter J. Smith,^b Ahilan Saravanamuthu^c and Alan H. Fairlamb^c

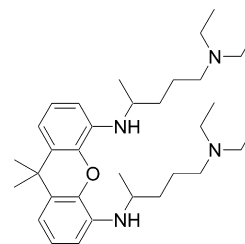
^aDepartment of Chemistry, University of Cape Town, Rondebosch 7701, South Africa

^bDivision of Pharmacology, Department of Medicine, University of Cape Town Medical School, Observatory 7925, South Africa

^cDivision of Biological Chemistry and Molecular Microbiology, School of Life Sciences, Wellcome Trust Biocentre, University of Dundee, Dundee DD1 5EH, UK

Synthetic xanthene derivatives were evaluated as trypanothione reductase inhibitors and chloroquine potentiating agents.

Tetrahedron 59 (2003) 2289



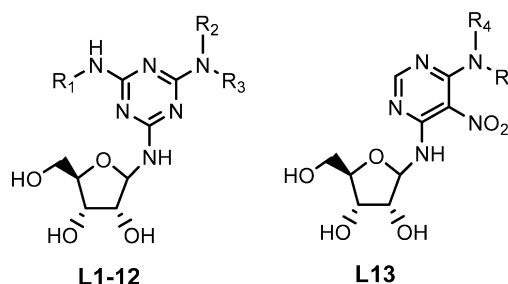
Synthesis of novel exocyclic amino nucleosides by parallel solid-phase combinatorial strategy

Chamakura V. Varaprasad, Qazi Habib, David Y. Li, Jingfan Huang, Jeffrey W. Abt, Frank Rong, Zhi Hong and Haoyun An*

Ribapharm, Inc., 3300 Hyland Avenue, Costa Mesa, CA 92626, USA

Thirteen libraries of 1234 novel exocyclic triazinyl amino nucleosides and clitocine derivatives were synthesized by the automated parallel solid-phase combinatorial strategy. All compounds were characterized and analyzed by high-throughput LC-MS.

Tetrahedron 59 (2003) 2297



Asymmetric synthesis of azetidin-2-ones by [2+2] cycloaddition using chiral imines derived from D-(+)-glucose

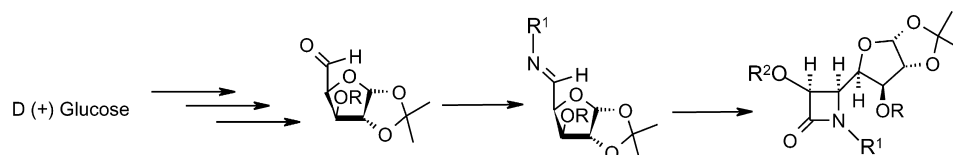
M. Arun,^a S. N. Joshi,^a V. G. Puranik,^b B. M. Bhawal^c and A. R. A. S. Deshmukh^{a,*}

^aDivision of Organic Chemistry (Synthesis), National Chemical Laboratory, Pune 411 008, India

^bDivision of Physical Chemistry, National Chemical Laboratory, Pune 411 008, India

^cEmcure Pharmaceuticals Ltd., Emcure House, T-184, M.I.D.C. Bhosari, Pune 411 026, India

Tetrahedron 59 (2003) 2309



New dimeric phenanthrenoids from the rhizomes of *Juncus acutus*. Structure determination and anti-algal activity

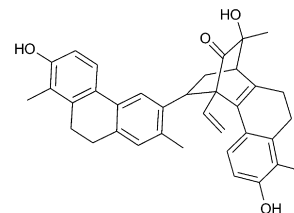
Tetrahedron 59 (2003) 2317

Marina DellaGreca,^{a,*} Antonio Fiorentino,^b Pietro Monaco,^b Lucio Previtera,^a Fabio Temussi^a and Armando Zarrelli^a

^a*Dipartimento di Chimica Organica e Biochimica, Università Federico II, Complesso Universitario Monte Sant'Angelo, Via Cynthia 4, I-80126 Napoli, Italy*

^b*Dipartimento di Scienze della Vita, II Università di Napoli, Via Vivaldi 43, I-81100 Caserta, Italy*

The five novel dimeric phenanthrenoids have been isolated from the wetland plant *Juncus acutus*. The structures' determination by NMR spectroscopy was described. The compounds showed anti-algal in vitro activity.

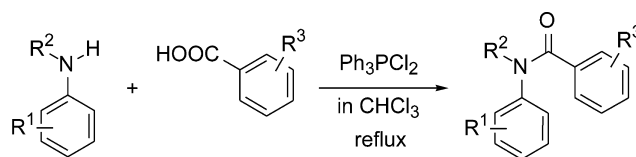


Simple and convenient synthesis of tertiary benzanilides using dichlorotriphenylphosphorane

Tetrahedron 59 (2003) 2325

Isao Azumaya,^{*} Takako Okamoto, Fumiaki Imabeppu and Hiroaki Takayanagi

School of Pharmaceutical Sciences, Kitasato University, Tokyo 108-8641, Japan



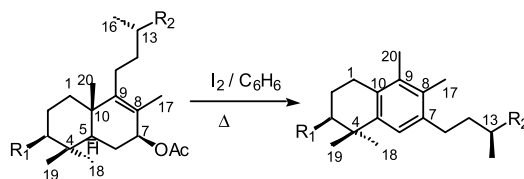
Side-chain migration reactions and ring B aromatization in labdanes: scope and limitations. Synthesis of isofregenedane type tetrahydronaphthalenic diterpenes

Tetrahedron 59 (2003) 2333

I. S. Marcos,^{a,*} P. Basabe,^a M. Laderas,^a D. Díez,^a A. Jorge,^a J. M. Rodilla,^b R. F. Moro,^a A. M. Lithgow,^a I. G. Barata^b and J. G. Urones^a

^a*Departamento de Química Orgánica, Facultad de Ciencias Químicas, Universidad de Salamanca, Plaza de los Caídos 1-5, 37008 Salamanca, Spain*

^b*Dept. Química, Universidade da Beira Interior, 6200 Covilhã, Portugal*

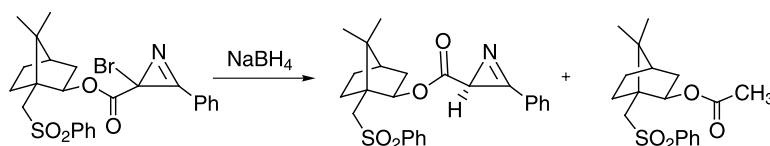


Reactivity of 2-halo-2H-azirines. Part 3: Dehalogenation of 2-halo-2H-azirine-2-carboxylates

Tetrahedron 59 (2003) 2345

Teresa M. V. D. Pinho e Melo,^{*} Ana L. Cardoso and António M. d'A. Rocha Gonsalves

Departamento de Química, Faculdade de Ciências e Tecnologia, Universidade de Coimbra, 3004-535 Coimbra, Portugal



***cis*-Pyridyl core-modified porphyrins for the synthesis of cationic water-soluble porphyrins and unsymmetrical non-covalent porphyrin arrays**

Sangita Santra, Duraisamy Kumaresan, Neeraj Agarwal and Mangalampalli Ravikanth*

Department of Chemistry, Indian Institute of Technology, Powai, Mumbai 400 076, India

Synthesis of a series of 21-thia and 21-oxaporphyrin building blocks containing two pyridyl functional groups at *meso* positions in a *cis* fashion and their use in the synthesis of water-soluble porphyrins and non-covalent porphyrin arrays are described.

