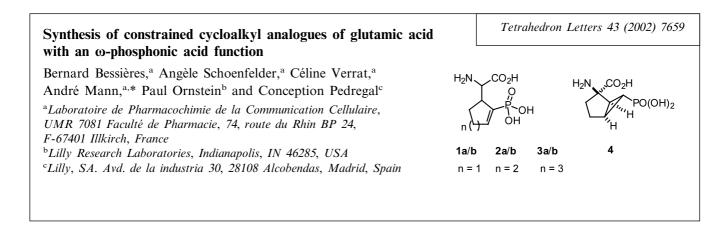
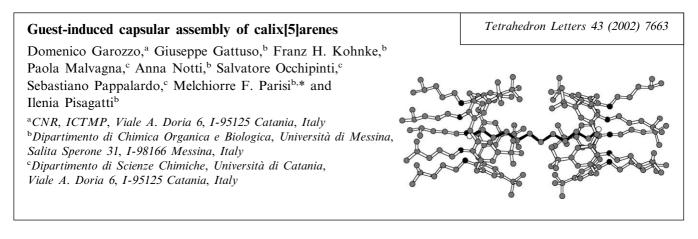
A novel leaf-movement inhibitor of a nyctinastic weed, Sesbania exaltata Cory, designed on a naturally occurring leaf-opening substance and its application to a potential, highly selective herbicide

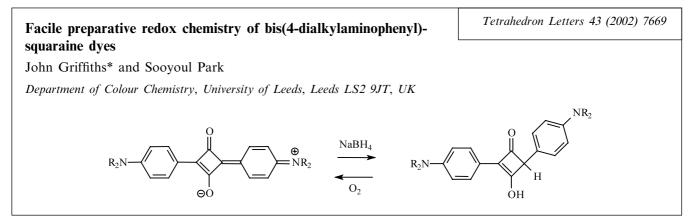
Noboru Takada,^a Eisuke Kato,^a Katsuhiro Ueda,^b Shosuke Yamamura^a and Minoru Ueda^{a,*}

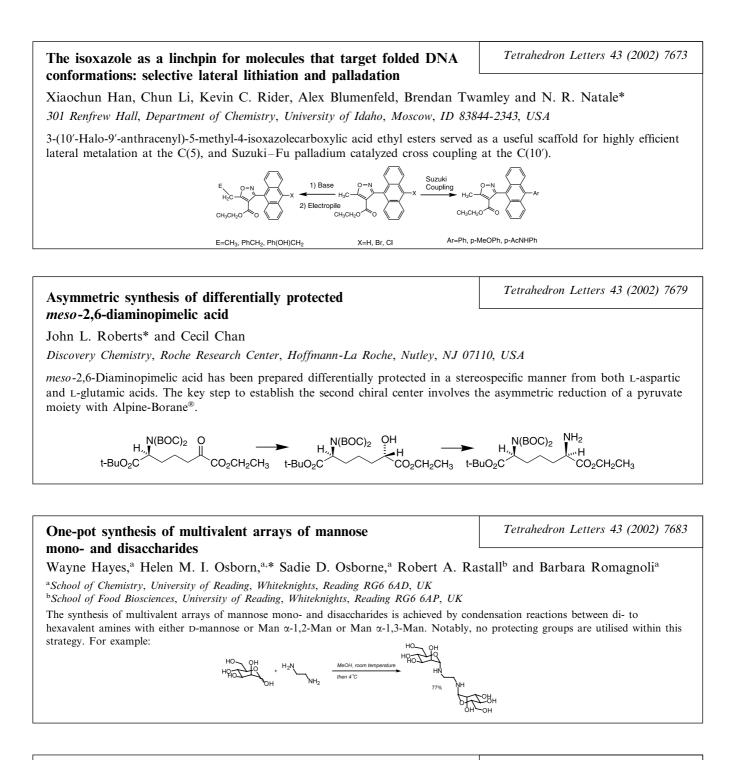
^aDepartment of Chemistry, Faculty of Science and Technology, Keio University, Hiyoshi, Yokohama 223-8522, Japan ^bDepartment of Chemistry, Biology and Marine Science, University of The Ryukyus, Nishihara-cho, Okinawa 903-0213, Japan

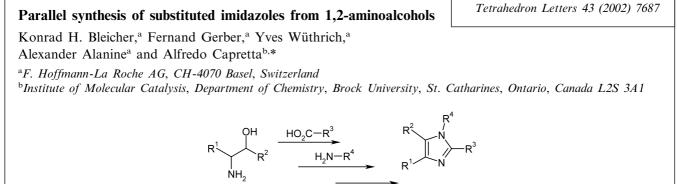
We isolated 4-O- β -D-glucopyranosyl-*trans-p*-coumarate (1), the leaf-opening substance of *Sesbania exaltata* Cory. The leaf-movement inhibitor, designed on the chemical mechanism of nyctinasty, could keep the leaves of *S. exaltata* open till the leaves withered and died.

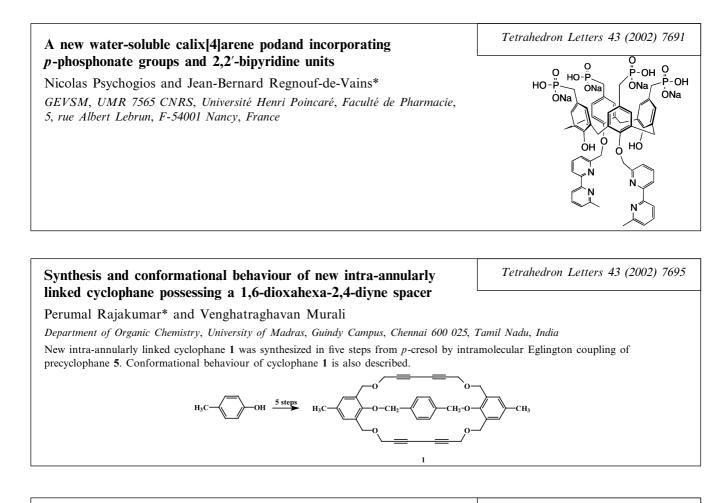










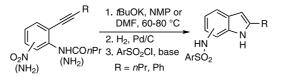


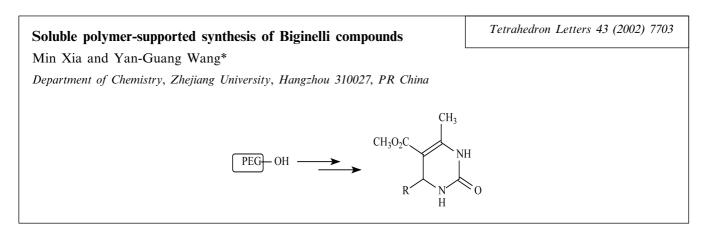
Chemistry of aminophenols. Part 2: A general and efficient synthesis of indoles possessing a nitrogen substituent at the C4, C5, C6, and C7 positions

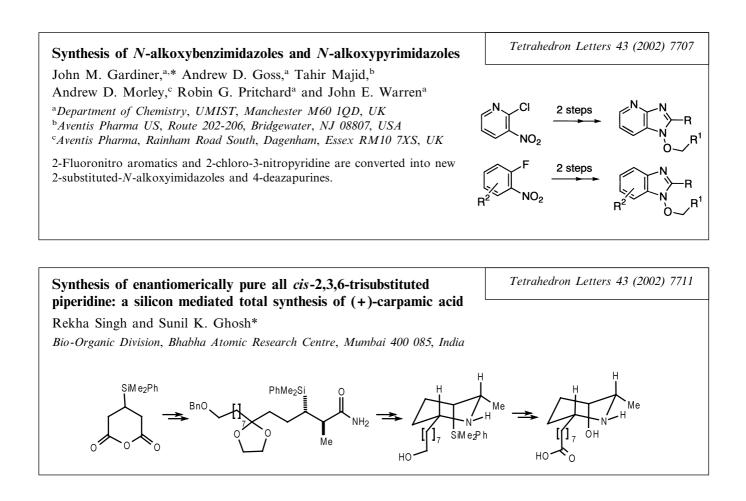
Tetrahedron Letters 43 (2002) 7699

Wei-Min Dai,* Li-Ping Sun and Dian-Shun Guo

Combinatorial Chemistry Laboratory, The Biotechnology Research Institute and Department of Chemistry, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong SAR, China







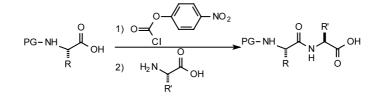
Peptide coupling of unprotected amino acids through in situ *p*-nitrophenyl ester formation

Tetrahedron Letters 43 (2002) 7717

Tetrahedron Letters 43 (2002) 7721

Paul Gagnon, Xicai Huang, Eric Therrien and Jeffrey W. Keillor*

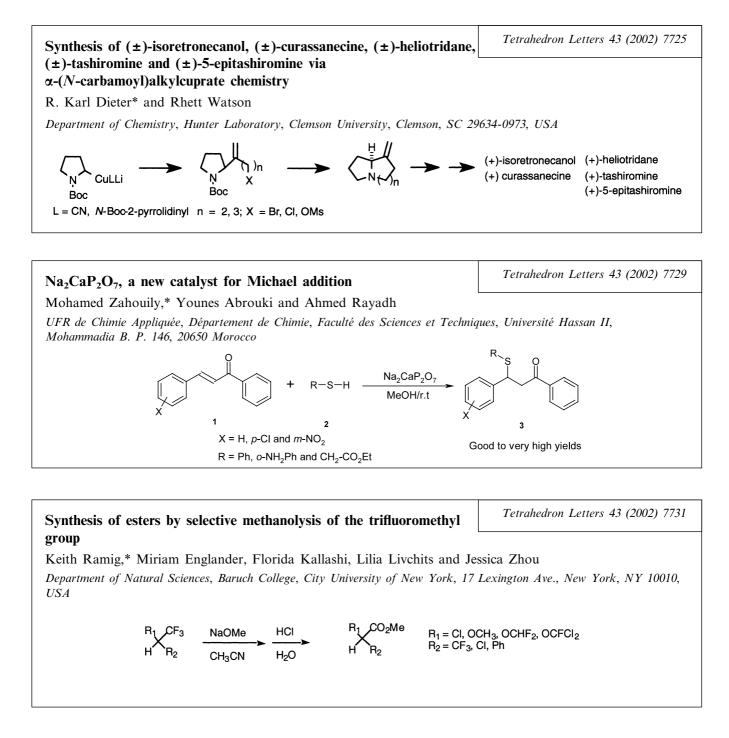
Département de chimie, Université de Montréal, CP 6128, Succursale centre-ville, Montréal, Québec, Canada H3C 3J7

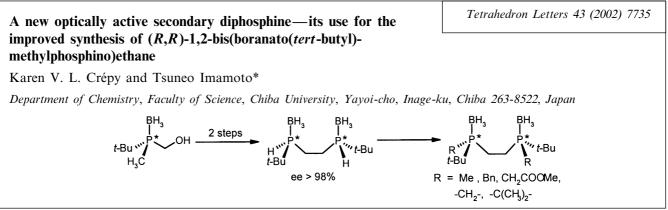


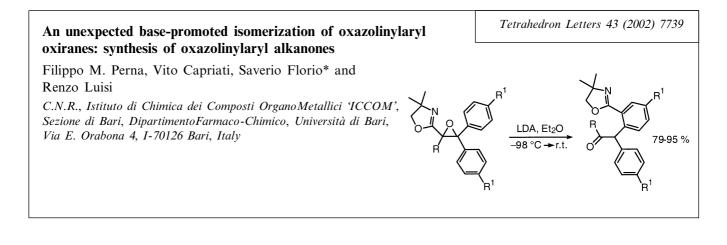
A convenient and highly stereoselective approach for α -galactosylation performed by galactopyranosyl dibenzyl phosphite with remote participating groups

Yu-Pei Cheng,^a Hui-Ting Chen^a and Chun-Cheng Lin^{a,b,*} ^aInstitute of Chemistry, Academia Sinica, Nankang, Taipei 115 Taiwan, ROC ^bDepartment of Chemistry, National Changhua University of Education, Changhua 500, Taiwan, ROC

B₇O -OBz TfOH BnO -0 BnO CH_2CI_2 BnO | OR 9 examples, yields from 64 to 95%



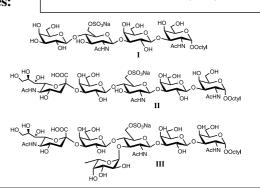




Chemoenzymatic synthesis of sulfated *O*-linked oligosaccharides: epitopes for MECA-79

Frederic Bélot,* David Rabuka, Minoru Fukuda and Ole Hindsgaul

Glycobiology Program, The Burnham Institute, 10901 North Torrey Pines Road, La Jolla, CA 92037, USA



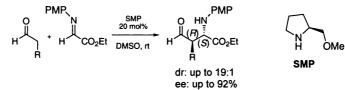
Tetrahedron Letters 43 (2002) 7743

Tetrahedron Letters 43 (2002) 7749

anti-Selective SMP-catalyzed direct asymmetric Mannich-type reactions: synthesis of functionalized amino acid derivatives

Armando Córdova and Carlos F. Barbas, III*

The Skaggs Institute for Chemical Biology and The Department of Molecular Biology, The Scripps Research Institute, 10550 North Torrey Pines Rd, La Jolla, CA 92037, USA

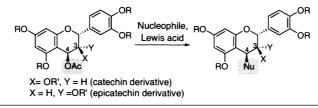


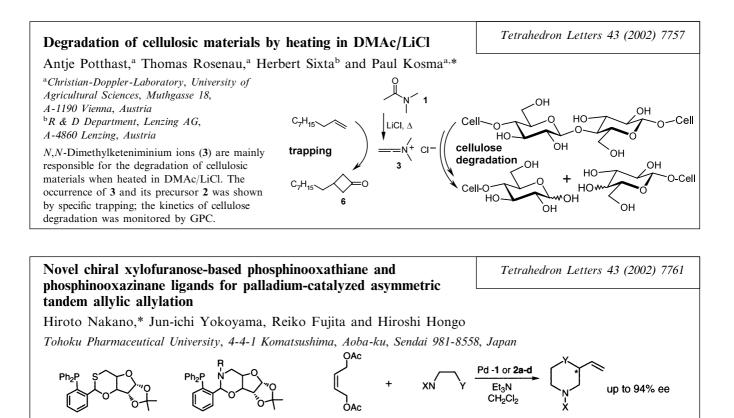
Stereoselective substitution of flavan skeletons: synthesis of dryopteric acid

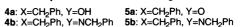
Tetrahedron Letters 43 (2002) 7753

Ken Ohmori, Naoko Ushimaru and Keisuke Suzuki*

Department of Chemistry, Tokyo Institute of Technology, and CREST, Japan Science and Technology Corporation (JST), O-okayama, Meguro-ku, Tokyo 152-8551, Japan







Non-phosgene synthesis of benzyl chloroformate (CbzCl)

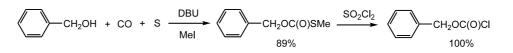
2a-c

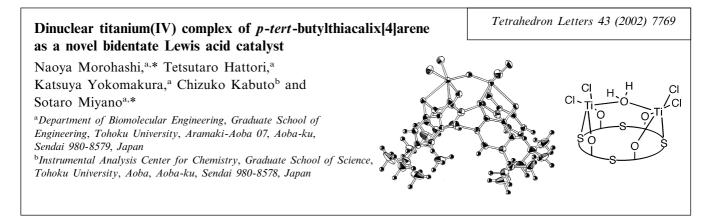
Tetrahedron Letters 43 (2002) 7765

Takumi Mizuno,^{a,*} Junko Takahashi^b and Akiya Ogawa^b

^aOsaka Municipal Technical Research Institute, 1-6-50, Morinomiya, Joto-ku, Osaka 536-8553, Japan ^bDepartment of Chemistry, Faculty of Science, Nara Women's University, Kitauoyanishi-machi, Nara 630-8506, Japan

Benzyl chloroformate (CbzCl) was synthesized by combining the carbonylation of benzyl alcohol with carbon monoxide and sulfur (or carbonyl sulfide) in the presence of DBU, with the chlorination using sulfuryl chloride.



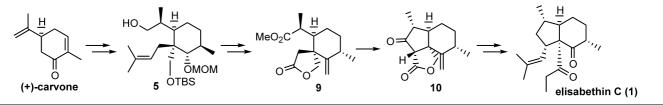


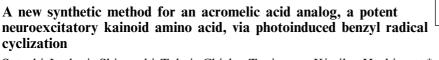
Tetrahedron Letters 43 (2002) 7773

Total synthesis and absolute configuration of marine *bisnor*-diterpenoid elisabethin C

Hiroaki Miyaoka, Daichi Honda, Hidemichi Mitome and Yasuji Yamada*

School of Pharmacy, Tokyo University of Pharmacy and Life Science, 1432-1 Horinouchi, Hachioji, Tokyo 192-0392, Japan

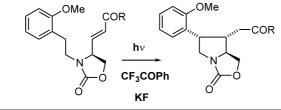




Tetrahedron Letters 43 (2002) 7777

Satoshi Itadani, Shigeyuki Takai, Chieko Tanigawa, Kimiko Hashimoto* and Haruhisa Shirahama

School of Science, Kwansei Gakuin University, Uegahara, Nishinomiya 662-8501, Japan



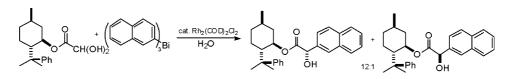
Anion sensors based on β , β' -disubstituted porphyrin derivatives Stephen D. Starnes,* Sailaja Arungundram and Colene H. Saunders Department of Chemistry and Biochemistry, New Mexico State University, Las Cruces, NM 88003, USA An anion sensor was designed that is characterized by the attachment of an anion binding site to a porphyrin chromophore through a planar, polycyclic, conjugated spacer. Tetrahedron Letters 43 (2002) 7785 $H_{HN} + H_{N} +$

Tetrahedron Letters 43 (2002) 7789

Rhodium-catalyzed reactions of arylbismuth and aryllead reagents with a chiral glyoxylate hydrate in air and water: water-promoted diastereoselectivity enhancement

Rui Ding,^a Cheng-Sheng Ge,^a Yong-Jun Chen,^a Dong Wang^{a,*} and Chao-Jun Li^{b,*}

^aCenter for Molecular Science, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100080, China ^bDepartment of Chemistry, Tulane University, New Orleans, LA 70118, USA

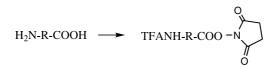


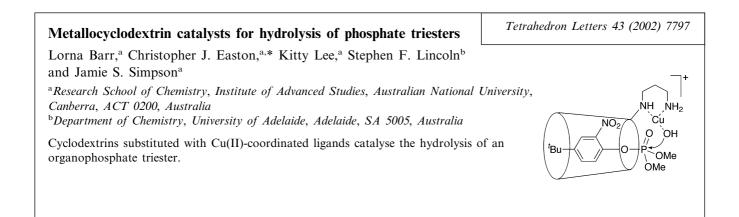
TFA-NHS as bifunctional protecting agent: simultaneous protection and activation of amino carboxylic acids

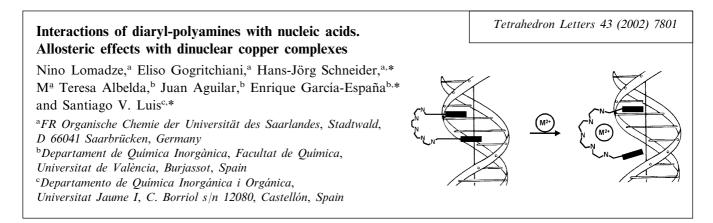
Tetrahedron Letters 43 (2002) 7793

T. Sudhakar Rao,* Satyam Nampalli, Padmanabhan Sekher and Shiv Kumar Amersham Biosciences, Bldg. 3/2, 800 Centennial Avenue, Piscataway, NJ 08855, USA

Reaction of amino carboxylic acids with TFA-NHS gives the corresponding protected active NHS esters.







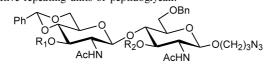
A highly convergent approach for the synthesis of disaccharide repeating units of peptidoglycan

Tetrahedron Letters 43 (2002) 7805

Abhijit Roy Chowdhury, Aloysius Siriwardena and Geert-Jan Boons*

Complex Carbohydrate Research Center, University of Georgia, 220 Riverbend Road, Athens, GA 30602-4712, USA

Use of orthogonal protecting groups (TBDMS and PMB) in combination with a two directional glycosylation strategy led to a convergent synthesis of two alternative repeating units of peptidoglycan.



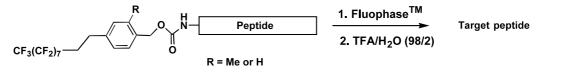
 R_1 = CH(CH₃)COOH, R_2 = PMB R_1 = TBDMS, R_2 = CH(CH₃)COOH

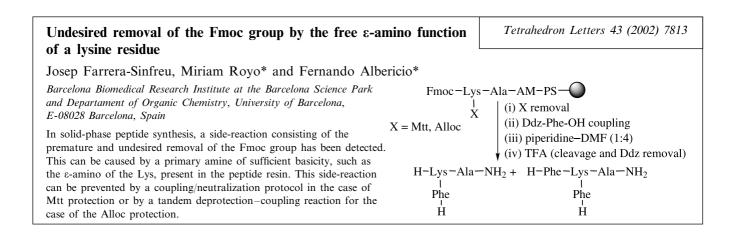
Use of benzyloxycarbonyl (Z)-based fluorophilic tagging reagents in the purification of synthetic peptides

Tetrahedron Letters 43 (2002) 7809

Dmitri V. Filippov,^a Dirk J. van Zoelen,^a Steven P. Oldfield,^a Gijs A. van der Marel,^a Herman S. Overkleeft,^a Jan W. Drijfhout^b and Jacques H. van Boom^{a,*}

^aLeiden Institute of Chemistry, Leiden University, PO Box 9502, 2300 RA Leiden, The Netherlands ^bDepartment of Immunohematology and Bloodtransfusion, Leiden University Medical Center, PO Box 9600, 2300 RC Leiden, The Netherlands

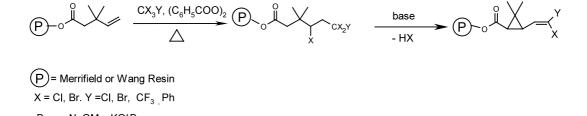




Free radical addition of haloalkanes to polymer bound olefins and its application to the solid-phase synthesis of pyrethroids

Tetrahedron Letters 43 (2002) 7817

H. M. Sampath Kumar,* P. Pawan Chakravarthy, M. Shesha Rao, P. Sunder Ram Reddy and J. S. Yadav Organic Chemistry Division-I, Indian Institute of Chemical Technology, Hyderabad 500 007, India

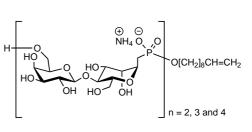


Synthesis of oligomeric phosphono analogues of *Leishmania* lipophosphoglycan fragments

Tetrahedron Letters 43 (2002) 7821

Vladimir S. Borodkin,^a Fiona C. Milne,^b Michael A. J. Ferguson^b and Andrei V. Nikolaev^{a,*}

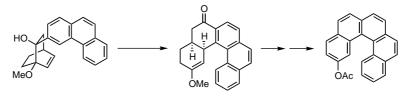
^aUniversity of Dundee, School of Life Sciences, Division of Biological Chemistry and Molecular Microbiology, Carnelley Building, Dundee DD1 4HN, UK ^bUniversity of Dundee, School of Life Sciences, Division of Biological Chemistry and Molecular Microbiology, Wellcome Trust Building, Dundee DD1 4HN, UK



Synthesis of 2-acetoxy[5]helicene by sequential double aromatic oxy-Cope rearrangement

Tetrahedron Letters 43 (2002) 7827

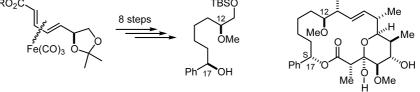
Yasushi Ogawa,^a Tetsuya Ueno,^a Michinori Karikomi,^{a,*} Katsura Seki,^b Kazuo Haga^a and Tadao Uyehara^a ^aDepartment of Applied Chemistry, Faculty of Engineering, Utsunomiya University, Utsunomiya 321-8585, Japan ^bCenter for Instrumental Analysis, Utsunomiya University, Utsunomiya 321-8585, Japan



Enantioselective synthesis of the C11–C17 segment of soraphen $A_{1\alpha}$ via organoiron methodology

Tetrahedron Letters 43 (2002) 7831

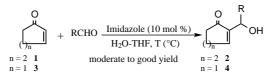
Yeyu Cao, Ahmad Farouk Eweas and William A. Donaldson* Department of Chemistry, Marquette University, PO Box 1881, Milwaukee, WI 53201-1881, USA The C11-C17 segment of the antifungal agent soraphen A1 α , with required inverted stereochemistry at C17, was prepared. The C12 stereocenter is derived from glyceraldehyde, while the C17 stereocenter is introduced by 1,6-asymmetric induction via a coordinated Fe(CO)₃. RO₂C TBSO TBSO



Imidazole-catalysed Baylis–Hillman reactions: a new route to allylic Tetrahedron Letters 43 (2002) 7835 alcohols from aldehydes and cyclic enones

Rafik Gatri and Mohamed Moncef El Gaïed*

Laboratoire de Chimie Organique, Faculté des Sciences de Tunis, Campus Universitaire, 1060 Tunis, Tunisia



Tetrahedron Letters 43 (2002) 7837

Allylic bromination of anhydrodihydroartemisinin and of its 10-trifluoromethyl analogue: a new access to 16-substituted artemisinin derivatives

Fabienne Grellepois, Fatima Chorki, Michèle Ourévitch, Benoit Crousse, Danièle Bonnet-Delpon* and Jean-Pierre Bégué

BIOCIS, CNRS, Faculté de Pharmacie, Rue J.B. Clément, Châtenay-Malabry F-92296, France

