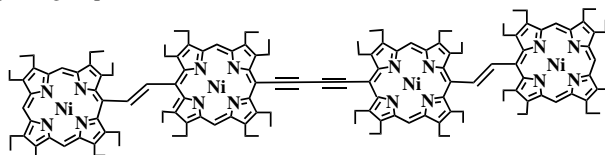


Synthesis and electronic properties of diacetylene- and vinylene-groups connected octaethylporphyrin tetramer

Tetrahedron Letters 43 (2002) 3097

Hiroyuki Higuchi,^{a,*} Takao Maeda,^a Keiko Miyabayashi,^b Mikio Miyake^b and Koji Yamamoto^a^aDepartment of Chemistry, Faculty of Science, Toyama University, 3190 Gofuku, Toyama 930-8555, Japan^bSchool of Materials Science, JAIST (Hokuriku), 1-1 Asahi-dai, Tatsunokuchi, Nomi, Ishikawa 923-1292, Japan

The diacetylene- and vinylene-groups connected OEP tetramer was synthesized. Its electronic properties are described, as compared with those of diacetylene-group and vinylene-group connected OEP dimers.



diacetylene- and vinylene-groups connected OEP tetramer

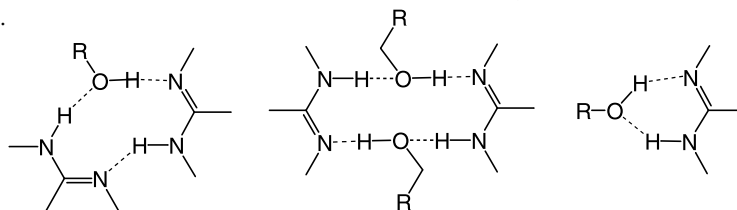
Supramolecular synthons in the co-crystal structures of 2-aminopyrimidine with diols and carboxylic acids

Tetrahedron Letters 43 (2002) 3101

Ning Shan, Andrew D. Bond and William Jones*

Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge CB2 1EW, UK

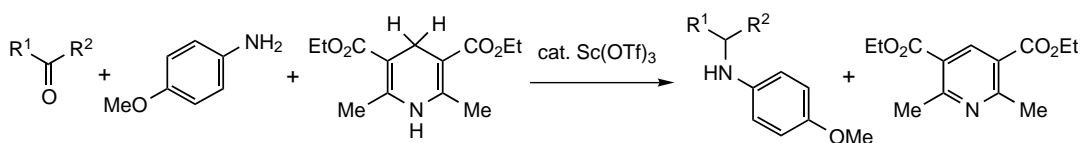
Supramolecular synthons have been discussed and rationalised in the co-crystal structures of 2-aminopyrimidine with diols and carboxylic acids.

**Reductive amination of aldehydes and ketones by a Hantzsch dihydropyridine using scandium triflate as a catalyst**

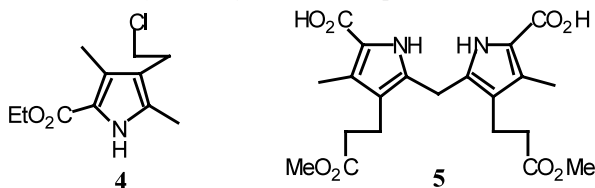
Tetrahedron Letters 43 (2002) 3105

Takashi Itoh, Kazuhiro Nagata, Ayako Kurihara, Michiko Miyazaki and Akio Ohsawa*

School of Pharmaceutical Sciences, Showa University, 1-5-8 Hatanodai, Shinagawa-ku, Tokyo 142-8555, Japan

**New route to protoporphyrins III and XIII from common starting pyrroles**

Tetrahedron Letters 43 (2002) 3109

Georges P.-J. Hareau,^{a,*} Saburo Neya,^b Noriaki Funasaki^b and Isao Taniguchi^a^aDepartment of Applied Chemistry & Biochemistry, Kumamoto University, 2-39-1, Kurokami, Kumamoto 860-8555, Japan^bDepartment of Physical Chemistry, Kyoto Pharmaceutical University, Yamashina, Kyoto 607-8414, JapanCompounds **4** and **5** have proved to be the only starting materials required in a remarkably simple new synthesis of protoporphyrins III and XIII.

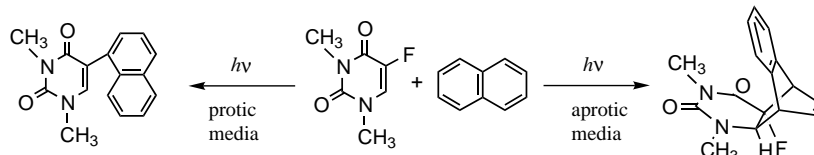
Stereoselective synthesis of 4a-fluoro-5,10-ethenobenzo[*f*]-quinazolines via photo-Diels–Alder reaction of 5-fluoro-1,3-dimethyluracil with naphthalenes

Tetrahedron Letters 43 (2002) 3113

Kazue Ohkura,^a Tatsuyuki Sugaoi,^a Ken-ichi Nishijima,^{a,b} Yuji Kuge^b and Koh-ichi Seki^{a,*}

^a*Faculty of Pharmaceutical Sciences, Health Sciences University of Hokkaido, Ishikari-Tobetsu, Hokkaido 061-0293, Japan*

^b*Graduate School of Medicine, Hokkaido University, Kita-15, Nishi-7, Kita-ku, Sapporo 060-8638, Japan*



Green chemistry approaches to the Knoevenagel condensation: comparison of ethanol, water and solvent free (dry grind) approaches

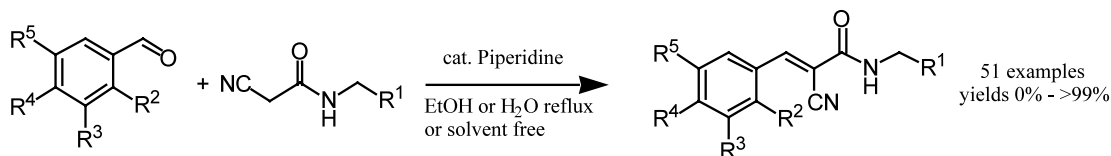
Tetrahedron Letters 43 (2002) 3117

Adam McCluskey,^{a,*} Philip J. Robinson,^b Tim Hill,^a Janet L. Scott^c and J. Kate Edwards^a

^a*Chemistry, School of Environmental and Life Sciences, The University of Newcastle, Callaghan NSW 2308, Australia*

^b*Children's Medical Research Institute, Westmead Hospital, Wentworthville, Sydney, Australia*

^c*Centre for Green Chemistry, PO Box 2, Monash University, Victoria 3800, Australia*



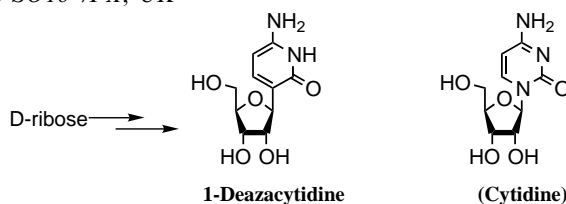
First synthesis of 1-deazacytidine, the C-nucleoside analogue of cytidine

Tetrahedron Letters 43 (2002) 3121

Matthieu Sollogoub,^a Keith R. Fox,^b Vicki E. C. Powers^a and Tom Brown^{a,*}

^a*Department of Chemistry, University of Southampton, Highfield, Southampton SO17 1BJ, UK*

^b*Division of Biochemistry and Molecular Biology, School of Biological Sciences, University of Southampton, Bassett Crescent East, Southampton SO16 7PX, UK*



Repetitive solid-phase synthesis of polyamines

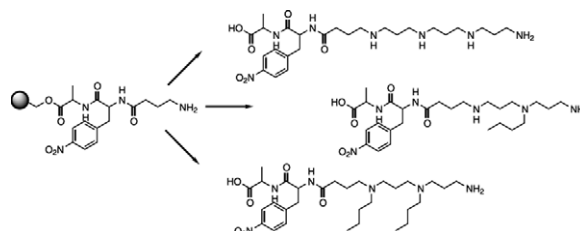
Tetrahedron Letters 43 (2002) 3125

Daniel Jönsson* and Anders Undén

Department of Neurochemistry & Neurotoxicology, Stockholm University, S-10691 Stockholm, Sweden

Primary amino groups are monoalkylated with acid labile benzhydryl-based protective groups and reductively alkylated with Fmoc-amino aldehydes.

Treatment with dilute TFA cleaves the protective groups preferentially allowing selective branching of the polyamine backbone.



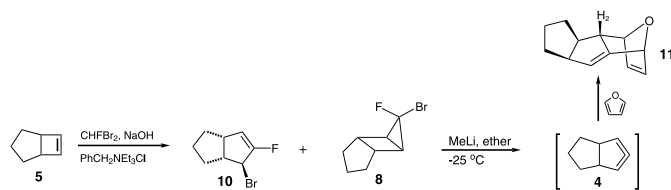
The first generation and trapping of a five-membered ring allene: 2-dehydro-3a,4,5,6,6a-pentahydropentalene

Tetrahedron Letters 43 (2002) 3129

Fatih Algi, Recep Özen and Metin Balci*

Department of Chemistry, Middle East Technical University, 06531 Ankara, Turkey

3-Bromo-3-fluorotricyclo[3.3.0.0^{2,4}]octane (**8**) was prepared by addition of bromofluorocarbene to bicyclo[3.2.0]hept-6-ene (**5**). Treatment of a solution of **8** in ether with MeLi in the presence of furan afforded the trapping product **11**.



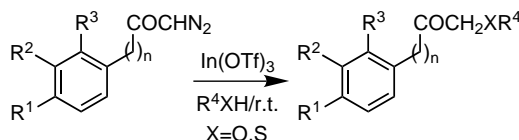
Indium triflate: a mild and efficient Lewis acid catalyst for O-H insertion reactions of α -dialkoxy ketones

Tetrahedron Letters 43 (2002) 3133

Sengodagounder Muthusamy,* Srinivasarao Arulnanda Babu and Chidambaram Gunanathan

Silicates and Catalysis Discipline, Central Salt and Marine Chemicals Research Institute, Bhavnagar 364 002, India

Insertion reactions of α -dialkoxy ketones with aliphatic/aromatic alcohols or benzenethiol have been developed in the presence of indium triflate as a catalyst.

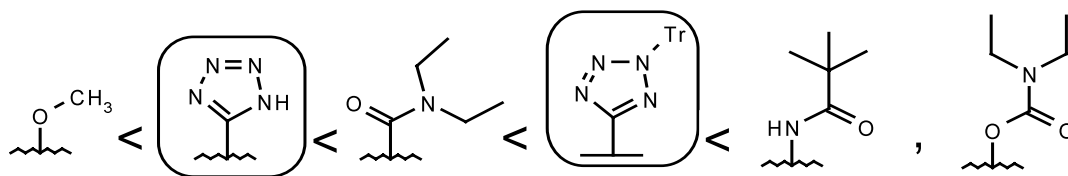


On the relative strength of the 1H-tetrazol-5-yl- and the 2-(triphenylmethyl)-2H-tetrazol-5-yl-group in directed ortho-lithiation

Tetrahedron Letters 43 (2002) 3137

Patrik Rhonnstad and David Wensbo*

Discovery Chemistry, AstraZeneca R&D Södertälje, S-151 85 Södertälje, Sweden



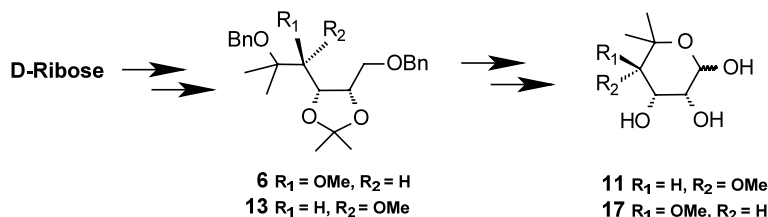
A novel synthesis of noviose and its C-(4) epimer

Tetrahedron Letters 43 (2002) 3141

David W. Gammon,* Roger Hunter* and Seanette Wilson

Department of Chemistry, University of Cape Town, Rondebosch 7701, South Africa

An efficient and stereoselective synthetic route has been developed to both noviose, **17** and its C-(4) epimer, **11**, thus providing a platform for the investigation of the structure-activity relationships (SAR) involving the methoxy group of noviose in the coumarin antibiotic Novobiocin.



Synthesis of the pentasaccharide hapten from the glycopeptidolipid antigen of *Mycobacterium avium* serovar 12

Tetrahedron Letters 43 (2002) 3145

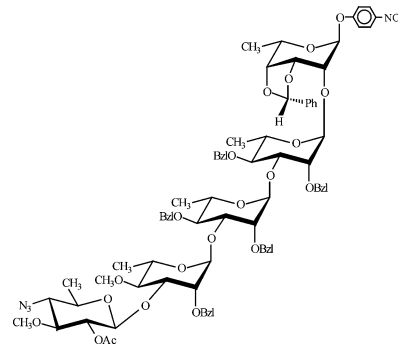
Zsolt Varga,^a István Bajza,^b Gyula Batta^c and András Lipták^{a,b,*}

^aDepartment of Biochemistry, University of Debrecen, PO Box 55, Debrecen H-4010, Hungary

^bResearch Group for Carbohydrates of the Hungarian Academy of Sciences, PO Box 55, Debrecen H-4010, Hungary

^cResearch Group for Antibiotics of the Hungarian Academy of Sciences, PO Box 70, Debrecen H-4010, Hungary

The title pentasaccharide was synthesized as a protected *p*-nitrophenyl glycoside using a 3+2 block synthesis.



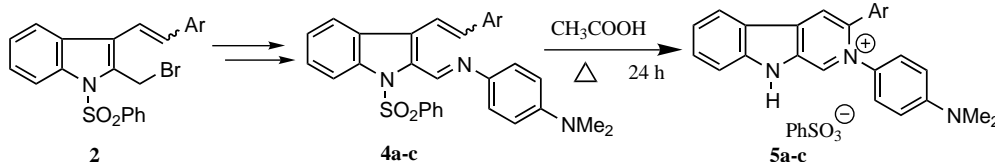
A facile synthesis of 2-[4'-dimethylaminophenyl]-3-aryl-β-carbolinium phenylsulfonates

Tetrahedron Letters 43 (2002) 3149

Sathananthan Kannadasan and Panayencheri C. Srinivasan*

Department of Organic Chemistry, University of Madras, Guindy Campus, Chennai 600 025, India

A convenient method for the synthesis of 2-[4'-dimethylaminophenyl]-3-aryl-β-carbolinium phenylsulfonates from the corresponding 2-*N'*-aryliminomethylene-3-β-arylvinyloindoles by thermal oxidative cyclization is reported.



Manganese triacetate oxidative lactonisation of electron-rich stilbenes possessing catechol and resorcinol substitution (resveratrol analogues)

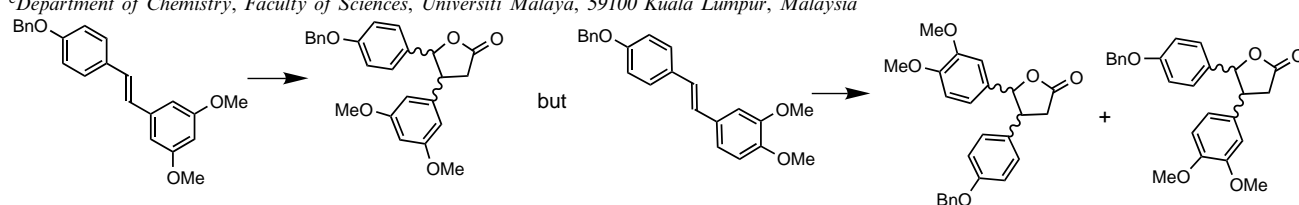
Tetrahedron Letters 43 (2002) 3151

N. F. Thomas,^{a,*} K. C. Lee,^b Thomas Paraidathathu,^b J. F. F. Weber^b and K. Awang^c

^aDepartment of Pharmacy, Faculty of Health, Science and Applied Science, Sedaya College, Taman Segar, Cheras, 56100 Kuala Lumpur, Malaysia

^bDepartment of Pharmacy, Faculty of Allied Health Science, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Kuala Lumpur, Malaysia

^cDepartment of Chemistry, Faculty of Sciences, Universiti Malaya, 59100 Kuala Lumpur, Malaysia



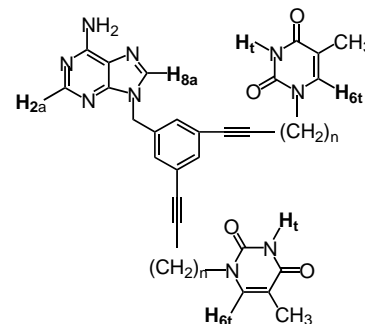
Intramolecular hydrogen bonding of nucleobases

Tetrahedron Letters 43 (2002) 3157

Geoffrey T. Crisp* and Yu-Lin Jiang

Department of Chemistry, Adelaide University, Adelaide 5005, South Australia, Australia

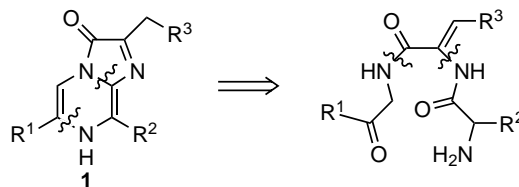
The intramolecular hydrogen bonding of a series of linked uracil, thymine and adenine derivatives is described.



A biomimetic synthesis of coelenterazine analogs

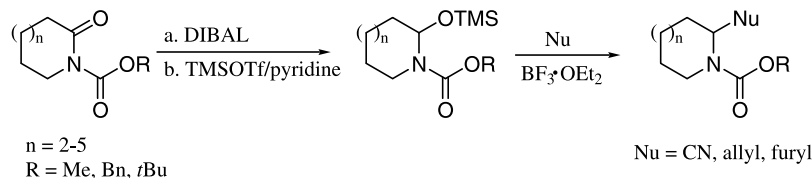
Ingrid Devillers, Axelle Arrault, Gilles Olive and
Jacqueline Marchand-Brynaert*

Unité de Chimie Organique et Médicinale, Université catholique de Louvain, Place Louis Pasteur, 1, Bâtiment Lavoisier,
B-1348 Louvain-la-Neuve, Belgium

**The versatile conversion of lactams to the α -alkylated azacycles via cyclic *N,O*-acetal TMS ether**

Young-Ger Suh,* Seok-Ho Kim, Jae-Kyung Jung and Dong-Yun Shin

College of Pharmacy, Seoul National University, San 56-1, Shinlim-Dong, Kwanak-Gu, Seoul 151-742, South Korea

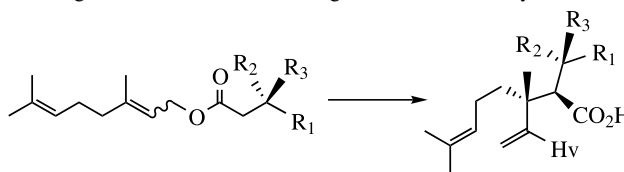
**Toward a total synthesis of brassinosteroids; structure assessment of the Ireland–Claisen products of geranyl and neryl esters**

O. Temmem,^a D. Uguen,^{a,*} A. De Cian^b and N. Gruber^b

^aLaboratoire de Synthèse Organique, associé au CNRS, Ecole Européenne de Chimie, Polymères et Matériaux, Université Louis Pasteur, 25, rue Becquerel, 67087 Strasbourg, France

^bLaboratoire de Cristallographie et Chimie Structurale, associé au CNRS, Université Louis Pasteur, 67070 Strasbourg, France

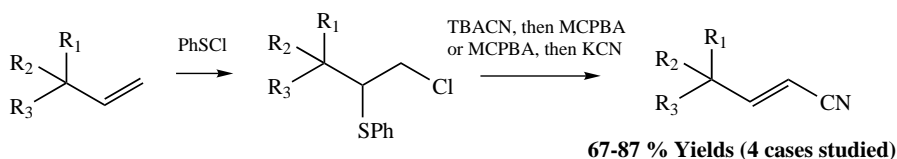
Chemical shift of H_v in $^1\text{H NMR}$ is diagnostic of the relative configuration at the newly-formed stereogenic centres for the three cases studied.

**Efficient dehydrocyanation of hindered 1-substituted olefins**

O. Temmem,^a D. Uguen,^{a,*} A. De Cian^b and N. Gruber^b

^aLaboratoire de Synthèse Organique, associé au CNRS, Ecole Européenne de Chimie, Polymères et Matériaux, Université Louis Pasteur, 25, rue Becquerel, 67087 Strasbourg, France

^bLaboratoire de Cristallographie et Chimie Structurale, associé au CNRS, Université Louis Pasteur, 67070 Strasbourg, France

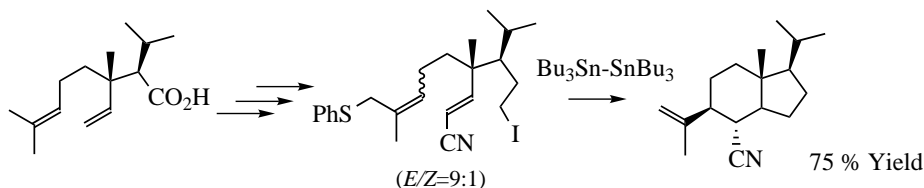


Toward a total synthesis of brassinosteroids; stereoselective generation of the hydrindane ring system

Tetrahedron Letters 43 (2002) 3181

O. Temmem, T. Zoller and D. Uguen*

Laboratoire de Synthèse Organique, associé au CNRS Ecole Européenne de Chimie, Polymères et Matériaux, Université Louis Pasteur, 25, rue Becquerel, 67087 Strasbourg, France



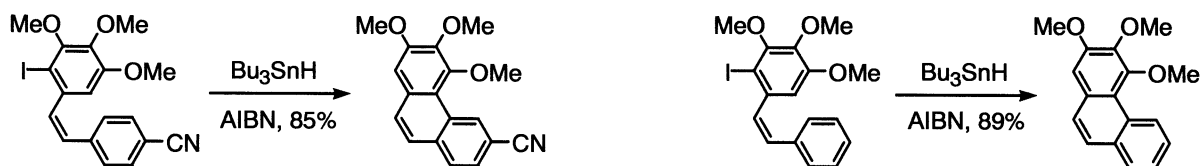
Radical cyclisations to arenes for the synthesis of phenanthrenes

Tetrahedron Letters 43 (2002) 3185

David C. Harrowven,^{a,*} Michael I. T. Nunn^a and David R. Fenwick^b

^aDepartment of Chemistry, The University, Southampton SO17 1BJ, UK

^bDiscovery Chemistry, Pfizer Global Research and Development, Sandwich, Kent CT13 9NJ, UK



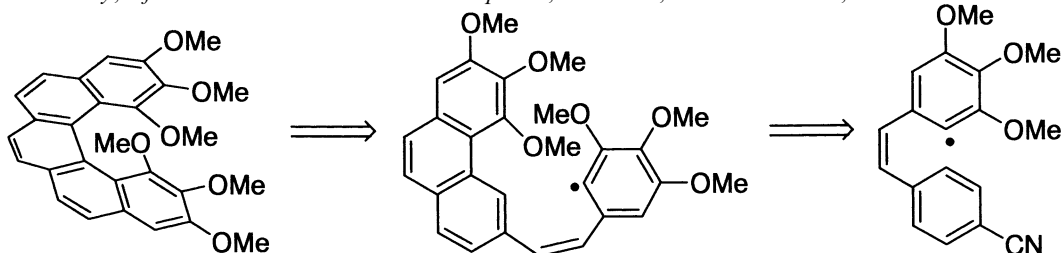
[5]Helicenes by iterative radical cyclisations to arenes

Tetrahedron Letters 43 (2002) 3189

David C. Harrowven,^{a,*} Michael I. T. Nunn^a and David R. Fenwick^b

^aDepartment of Chemistry, The University of Southampton, Southampton SO17 1BJ, UK

^bDiscovery Chemistry, Pfizer Global Research and Development, Sandwich, Kent CT13 9NJ, UK



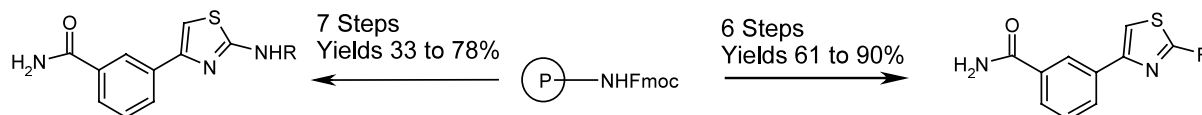
Solid support synthesis of 2,4-disubstituted thiazoles and aminothiazoles

Tetrahedron Letters 43 (2002) 3193

Saïd El Kazzouli,^{a,b} Sabine Berteina-Raboin,^{a,*} Abderrahim Mouaddib^b and Gérald Guillaumet^a

^aInstitut de Chimie Organique et Analytique, UMR-CNRS 6005, Université d'Orléans, rue de Chartres, BP 6759, 45067 Orléans Cedex 2, France

^bFaculté des Sciences et Techniques de Beni-Mellal, Université Caddi-Ayyad, BP 523, 23000 Beni-Mellal, Morocco



Terreulactone A, a novel meroterpenoid with anti-acetylcholinesterase activity from *Aspergillus terreus*

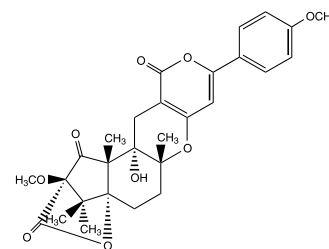
Tetrahedron Letters 43 (2002) 3197

Won-Gon Kim,^a Kyung-Mi Cho,^{a,b} Chong-Kil Lee^b and Ick-Dong Yoo^{a,*}

^a*Korea Research Institute of Bioscience and Biotechnology, PO Box 115, Yusong, Taejeon 305-600, South Korea*

^b*Department of Pharmacy, Chung-Buk National University, Cheong-Ju 361-763, South Korea*

A novel sesquiterpene lactone type meroterpenoid, terreulactone A, was isolated from the solid-state fermentation of *Aspergillus terreus* and its structure was established by various spectral analysis.

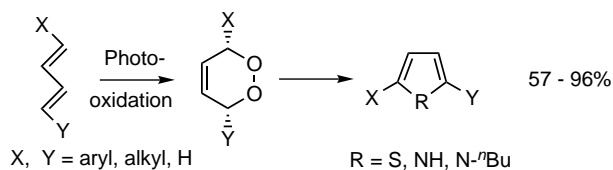


A one-pot synthesis of thiophene and pyrrole derivatives from readily accessible 3,5-dihydro-1,2-dioxines

Tetrahedron Letters 43 (2002) 3199

Cassie E. Hewton, Marc C. Kimber and Dennis K. Taylor*

Department of Chemistry, Adelaide University, South Australia 5005, Australia



Chemical versus enzymatic acetylation of α -bromo- ω -hydroxyaldehydes: decyclization of hemiacetals by lipase

Tetrahedron Letters 43 (2002) 3203

Ly Villo,^a Andrus Metsala,^a Omar Parve^{a,*} and Tõnis Pehk^b

^a*Department of Bioorganic Chemistry, Institute of Chemistry at Tallinn Technical University, Akadeemia tee 15, 12 618 Tallinn, Estonia*

^b*Department of Chemical Physics, National Institute of Chemical Physics and Biophysics, Akadeemia tee 23, 12 618 Tallinn, Estonia*



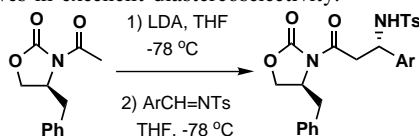
Stereoselective nucleophilic addition of chiral lithium enolates to (*N*-tosyl)imines: enantioselective synthesis of β -aryl- β -amino acid derivatives

Tetrahedron Letters 43 (2002) 3209

Zhihua Ma, Yonghua Zhao, Nan Jiang, Xianglin Jin and Jianbo Wang*

Key Laboratory of Bioorganic Chemistry and Molecular Engineering of Ministry of Education, Department of Chemical Biology, College of Chemistry, Peking University, Beijing 100871, China

The reaction of the chiral lithium enolates derived from (*S*)-(-)-4-benzyl-2-oxazolidinone acetamide with *N*-tosyl arylaldehyde imines gives β -aryl- β -amino acid derivatives in excellent diastereoselectivity.

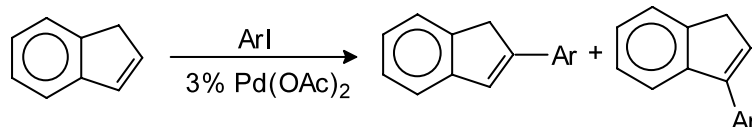


A facile synthesis of 2-arylindenes by Pd-catalyzed direct arylation of indene with aryl iodides

Tetrahedron Letters 43 (2002) 3213

Ilya E. Nifant'ev,* Alexander A. Sitnikov, Nonna V. Andriukhova, Ilya P. Laishevtsev and Yuri N. Luzikov
Department of Chemistry, Moscow State University, Moscow 119899, Russia

A series of 2-arylindenes were prepared by the reaction of aryl iodides with indene in the presence of a catalytic amount of Pd(OAc)₂.

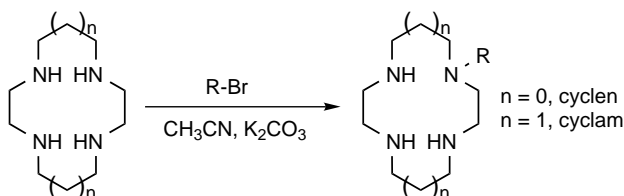


A convenient method for the preparation of mono N-alkylated cyclams and cyclens in high yields

Tetrahedron Letters 43 (2002) 3217

Cong Li and Wing-Tak Wong*

Department of Chemistry and Open Laboratory of Chemical Biology of the Institute of Molecular Technology for Drug Discovery and Synthesis, The University of Hong Kong, Pokfulam Road, Hong Kong, PR China



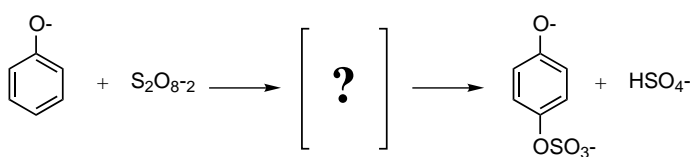
On the mechanism of the Elbs peroxydisulfate oxidation and a new peroxide rearrangement

Tetrahedron Letters 43 (2002) 3221

Elizabeth C. Behrman,^a Ssuhlen Chen^b and Edward J. Behrman^{b,*}

^aDepartment of Physics, Wichita State University, Wichita, KS 67260, USA

^bDepartment of Biochemistry, The Ohio State University, 484 West 12th Avenue, Columbus, OH 43210, USA



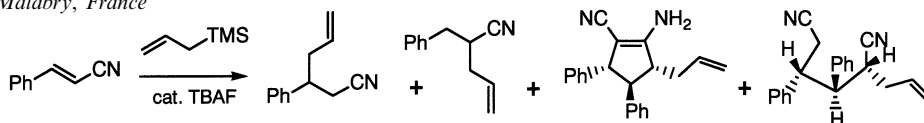
Reinvestigation of the fluoride-triggered condensation of allyltrimethylsilane with cinnamionitrile: 'abnormal Sakurai' and sequential 'abnormal Sakurai'-Michael-Thorpe Ziegler side reactions

Tetrahedron Letters 43 (2002) 3225

Laurent Keller,^a Françoise Dumas,^{a,*} Mathieu Pizzonero,^a Jean d'Angelo,^{a,*} Georges Morgant^b and Dung Nguyen-Huy^b

^aUnité de Chimie Organique Associée au CNRS, Université Paris-Sud, Faculté de Pharmacie, 5, rue J.-B. Clément, 92296 Châtenay-Malabry, France

^bLaboratoire de Cristalochimie Bioinorganique, Université Paris-Sud, Faculté de Pharmacie, 5, rue J.-B. Clément, 92296 Châtenay-Malabry, France

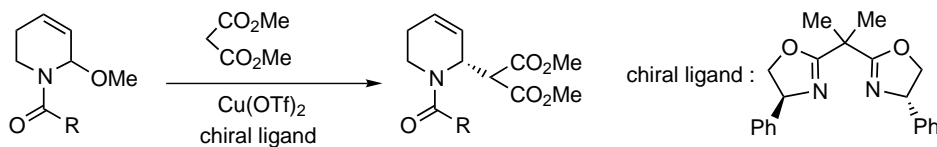


Copper ion-catalyzed asymmetric carbon–carbon bond-forming reaction at the 2-position of a piperidine skeleton

Tetrahedron Letters 43 (2002) 3229

Osamu Onomura, Yasuhisa Kanda, Yasuharu Nakamura, Toshihide Maki and Yoshihiro Matsumura*

Faculty of Pharmaceutical Sciences, Nagasaki University, 1-14 Bunkyo-machi, Nagasaki 852-8521, Japan

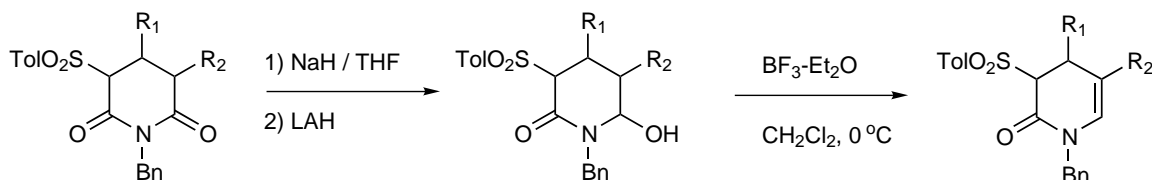


Regioselective reduction of *N*-alkyl-3-sulfonyl glutarimides. Synthesis of 3,4-dihydro-3-tosylpyridin-2-ones

Tetrahedron Letters 43 (2002) 3233

Bo-Rui Chang, Chung-Yi Chen and Nein-Chen Chang*

Department of Chemistry, National Sun Yat-Sen University, Kaohsiung 804, Taiwan, ROC

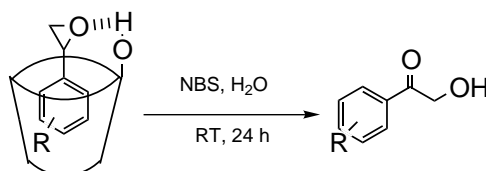


A mild and efficient biomimetic synthesis of α -hydroxymethyl-arylketones from oxiranes in the presence of β -cyclodextrin and NBS in water

Tetrahedron Letters 43 (2002) 3237

M. Arjun Reddy, N. Bhanumathi and K. Rama Rao*

Organic Chemistry Division I, Indian Institute of Chemical Technology, Hyderabad 500 007, India

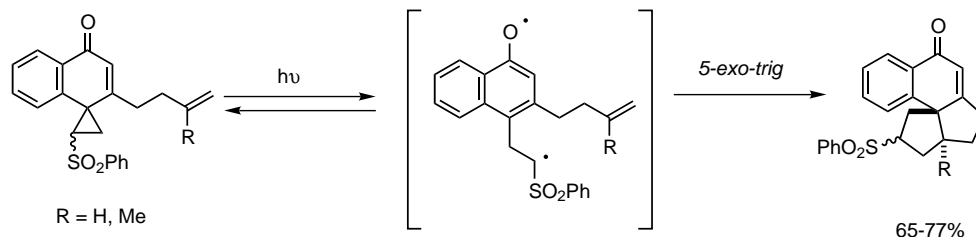


Intramolecular photocycloaddition of olefin-tethered benzo[*a*]spiro-[2,5]octa-1,4-dien-3-one derivatives

Tetrahedron Letters 43 (2002) 3239

Xuqing Zhang* and Arthur G. Schultz

Rensselaer Polytechnic Institute, Chemistry Department, 110 8th St., Troy, NY 12180, USA



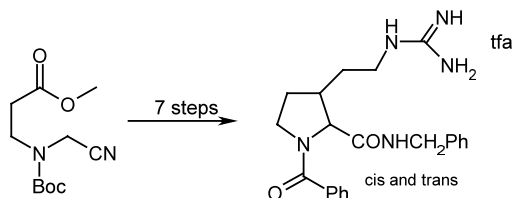
New strategies towards proline derivatives as conformationally constrained arginine analogues

Tetrahedron Letters 43 (2002) 3243

Nadia Pellegrini, Martine Schmitt,* Sébastien Guery and Jean-Jacques Bourguignon

Laboratoire de Pharmacochimie de la Communication Cellulaire, UMR 7081 CNRS/ULP, Université Louis Pasteur, Faculté de Pharmacie, 74 Route du Rhin, 67401 Illkirch Cedex, France

Preparation of *cis* and *trans* 3-substituted prolines as conformationally constrained arginine analogues

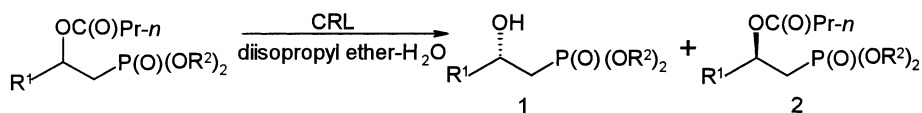


Candida rugosa lipase catalyzed enantioselective hydrolysis in organic solvents. Convenient preparation of optically pure 2-hydroxy-2-arylethanephosphonates

Tetrahedron Letters 43 (2002) 3247

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R¹ = *x*-C₆H₄, 2-naphthyl, 2-furyl; R² = Me, Et, *n*-Pr, *i*-Pr

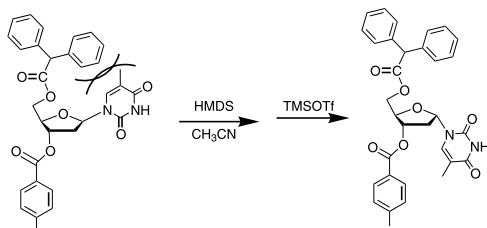
E up to >100

A convenient method for the conversion of β -thymidine to α -thymidine based on TMSOTf-mediated C1'-epimerization

Tetrahedron Letters 43 (2002) 3251

Yuichi Sato, Gohsuke Tateno, Kohji Seio and Mitsuo Sekine*

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A facile synthesis of 2,4-diaza-1-borines from anilines

Tetrahedron Letters 43 (2002) 3255

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Conversion of an aniline and a nitrile to a 2,4-diaza-1-borine was achieved by successive treatment with AlCl₃ and BCl₃. The product was isolated as a hydrated HCl salt, and the structure was confirmed by X-ray analysis.

