

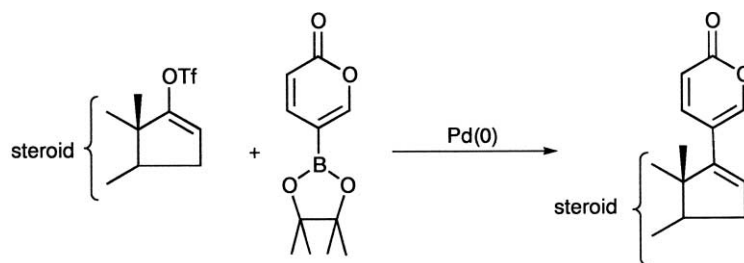
A Suzuki coupling approach to bufadienolides

Tetrahedron Letters 42 (2001) 9081

Edward C. Gravett,^a Philip J. Hilton,^b Keith Jones^{a,*} and Fernando Romero^a

^a*School of Chemical and Pharmaceutical Sciences,
Kingston University, Kingston-upon-Thames,
Surrey, KT1 2EE, UK*

^b*St Thomas' Hospital, London SE1 7EH, UK*

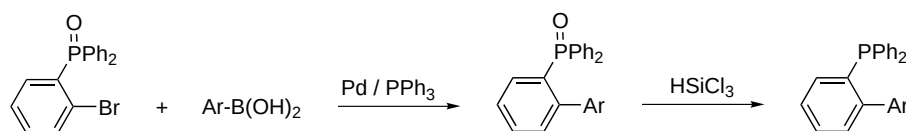


Synthesis of biphenyl-based phosphines by Suzuki coupling

Tetrahedron Letters 42 (2001) 9085

Colin Baillie, Weiping Chen and Jianliang Xiao*

Leverhulme Centre for Innovative Catalysis, Department of Chemistry, University of Liverpool, Liverpool L69 7ZD, UK

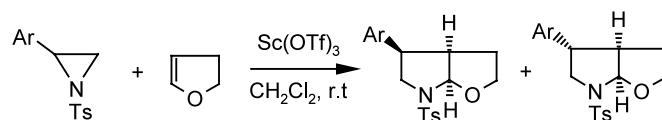


Scandium triflate-catalyzed 1,3-dipolar cycloaddition of aziridines with alkenes

Tetrahedron Letters 42 (2001) 9089

J. S. Yadav,* B. V. Subba Reddy, Sushil Kumar Pandey, P. Srihari and I. Prathap

Organic Chemistry Division 1, Indian Institute of Chemical Technology, Hyderabad 500 007, India



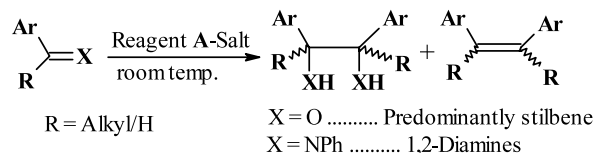
Highly active salted low-valent titanium reagents for various SET induced reactions

Tetrahedron Letters 42 (2001) 9093

Shyam Rele, Subrata Chattopadhyay and Sandip K. Nayak*

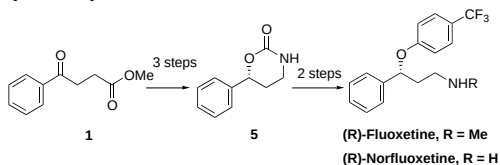
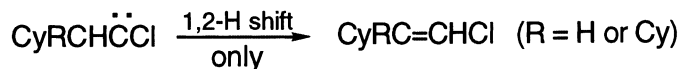
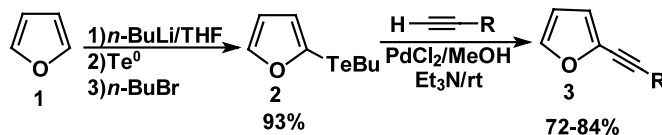
Bio-Organic Division, Bhabha Atomic Research Centre, Mumbai 400 085, India

Highly active low-valent titanium (LVT) reagents prepared by external addition of inorganic salts to the preformed LVT reagent A (TiCl₃-Li-THF) could carry out McMurry olefination and other SET reactions at ambient temperature.

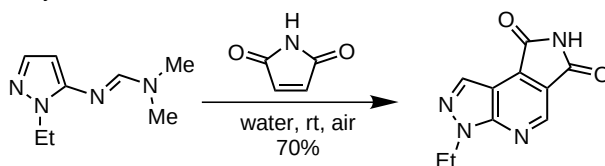


A practical asymmetric synthesis of (*R*)-fluoxetine and its major metabolite (*R*)-norfluoxetine*Tetrahedron Letters* 42 (2001) 8919James W. Hilborn,^b Zhi-Hui Lu,^{a,*} Alex R. Jurgens,^b Q. Kevin Fang,^a Paul Byers,^a Stephen A. Wald^a and Chris H. Senanayake^{a,*}^a*Sepracor, Inc., Chemical Process R&D, 111 Locke Dr., Marlborough, MA 01752, USA*^b*Sepracor Canada Ltd, 24 Ivey Lane, Windsor, N.S. Canada B0N 2T0*

A convenient and chromatography-free synthesis for the enantiomers of fluoxetine and norfluoxetine is described.

**Rearrangements of cyclopropylmethylchlorocarbene and dicyclopropylmethylchlorocarbene***Tetrahedron Letters* 42 (2001) 8923Robert A. Moss,^{*} Wei Ma, Shunqi Yan and Fengmei Zheng*Department of Chemistry and Chemical Biology, Rutgers, The State University of New Jersey, New Brunswick, NJ 08903, USA***New acetylenic furan derivatives: synthesis and anti-inflammatory activity***Tetrahedron Letters* 42 (2001) 8927Gilson Zeni,^{a,*} Diogo S. Lüdtkke,^a Cristina W. Nogueira,^a Rodrigo B. Panatieri,^a Antonio L. Braga,^a Claudio C. Silveira,^a Hélio A. Stefani^b and Joao B. T. Rocha^a^a*Departamento de Química, Laboratório de Bioquímica Toxicológica-UFSM 97105-900, Santa Maria RS, Brazil*^b*Faculdade de Ciências Farmacêuticas, USP São Paulo, SP, Brazil***Synthesis of fused pyridopyrrolidine dione derivatives using hetero Diels–Alder reactions***Tetrahedron Letters* 42 (2001) 8931Helen J. Mason, Ximao Wu, Rebecca Schmitt, John E. Macor and Guixue Yu^{*}*Hopewell Discovery Chemistry, Bristol-Myers Squibb, PO Box 5400, Princeton, NJ 08543-5400, USA*

Hetero Diels–Alder reactions of heteroaromatic amidines and maleimide afforded novel fused pyridopyrrolidine dione scaffolds in moderate to good yields under mild conditions.

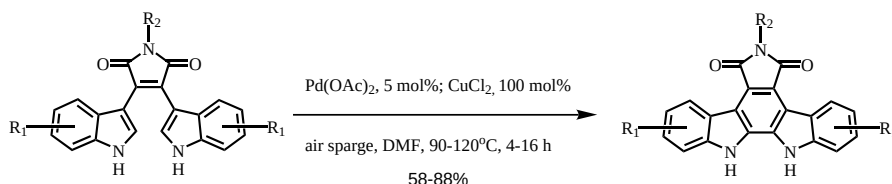


Practical synthesis of the rebeccamycin aglycone and related analogs by oxidative cyclization of bisindolylmaleimides with a Wacker-type catalytic system

Tetrahedron Letters 42 (2001) 8935

Jianji Wang,* Miguel Rosingana, Daniel J. Watson, Eric D. Dowdy, Robert P. Discordia, Nachimuthu Soundarajan and Wen-Sen Li

Bristol-Myers Squibb Pharmaceutical Research Institute, Process Research & Development, One Squibb Drive, New Brunswick, NJ 08903, USA

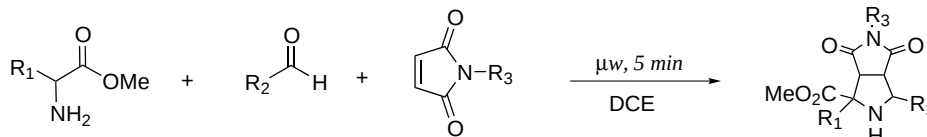


Microwave-assisted synthesis of a [3+2] cycloaddition library

Tetrahedron Letters 42 (2001) 8939

Noel S. Wilson, Christopher R. Sarko* and Gregory P. Roth

Department of Medicinal Chemistry, Boehringer Ingelheim Pharmaceuticals Inc., 900 Ridgebury Road, Ridgefield, CT 06877-0368, USA



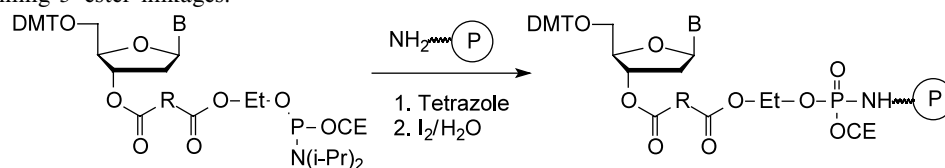
Linker phosphoramidite reagents for oligonucleotide synthesis on underivatized solid-phase supports

Tetrahedron Letters 42 (2001) 8943

Richard T. Pon* and Shuyuan Yu

Department of Biochemistry and Molecular Biology, University of Calgary, Calgary, Alberta, Canada T2N 4N1

Underivatized amino or hydroxyl supports can be used as 'Universal' supports by reacting them with phosphoramidite reagents containing 3'-ester linkages.



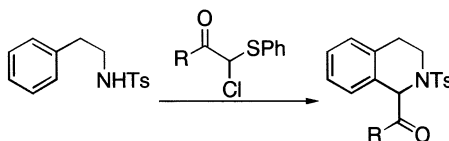
Elaboration of 1-benzoyltetrahydroisoquinoline derivatives employing a Pictet-Spengler cyclization with α -chloro- α -phenylthioketones. Synthesis of O-methylvelucryptine

Tetrahedron Letters 42 (2001) 8947

Claudio C. Silveira,^{a,*} Carmem R. Bernardi,^a Antonio L. Braga^a and Teodoro S. Kaufman^b

^a*Departamento de Química, Universidade Federal de Santa Maria, 97105.900, Santa Maria, RS, Brazil*

^b*Instituto de Química Orgánica de Síntesis (CONICET-UNR), Suipacha 570, S2002LRK Rosario, Argentina*



Homoallylic alcohols and trichloroacetamides as hydrogen bond donors for directed dihydroxylation

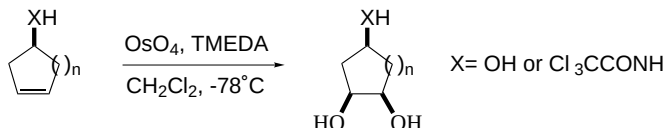
Tetrahedron Letters 42 (2001) 8951

Timothy J. Donohoe,^{a,*} Lee Mitchell,^a Michael J. Waring,^a Madeleine Helliwell,^a Andrew Bell^b and Nicholas J. Newcombe^c

^aDepartment of Chemistry, The University of Manchester, Oxford Road, Manchester M13 9PL, UK

^bPfizer Limited, Sandwich, Kent CT13 9NJ, UK

^cAstraZeneca Pharmaceuticals, Mereside, Alderley Park, Macclesfield, Cheshire SK10 4TG, UK

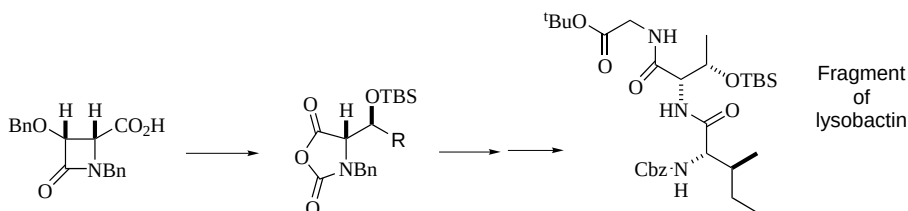


A concise synthesis of α -amino acid *N*-carboxy anhydrides of (2*S*,3*S*)- β -substituted serines

Tetrahedron Letters 42 (2001) 8955

Claudio Palomo,^{*} Mikel Oiarbide, Iñaki Ganboa and José I. Miranda

Departamento de Química Orgánica I, Facultad de Química, Universidad del País Vasco, Apdo 1072, 20080 San Sebastián, Spain



Ring-closing metathesis, Kharasch addition and enol ester synthesis catalysed by a novel class of ruthenium(II) complexes

Tetrahedron Letters 42 (2001) 8959

Bob De Clercq and Francis Verpoort^{*}

Ghent University, Department of Inorganic and Physical Chemistry, Krijgslaan 281 (S-3), 9000 Ghent, Belgium

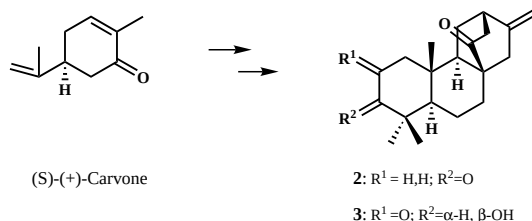
Stereoselective synthesis of polyoxygenated atisane-type diterpenoids

Tetrahedron Letters 42 (2001) 8965

Antonio Abad,^{*} Consuelo Agulló, Ana C. Cuñat and Ismael Navarro

Departamento de Química Orgánica, Universitat de Valencia, Dr. Moliner 50, 46100-Burjassot Valencia, Spain

A general stereoselective approach to atisanes from carvone is described. The synthesis of the bioactive natural atisanes **2** and **3** following this approach is presented.



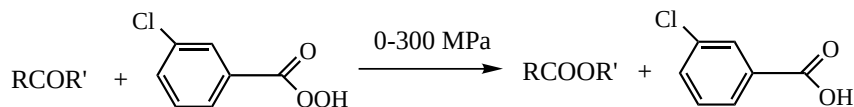
High pressure mechanistic diagnosis in Baeyer–Villiger oxidation of aliphatic ketones

Tetrahedron Letters 42 (2001) 8969

Gérard Jenner

Laboratoire de Piézochimie Organique (UMR 7509), Faculté de Chimie, Université Louis Pasteur, 67008 Strasbourg, France

The activation volume varies between -2 and -8 cm³ mol⁻¹. The migration step is rate determining with all events occurring in concert.

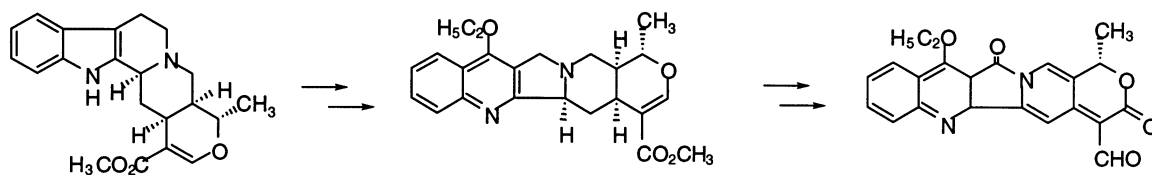


Partial synthesis of camptothecin analogs. Part 3: Easy approach to a quinoline–lactone system

Tetrahedron Letters 42 (2001) 8973

Cécile Dumas, Jacques Royer and Henri-Philippe Husson*

Laboratoire de Chimie Thérapeutique, UMR 8638 associée au CNRS et à l'Université René Descartes, Faculté des Sciences Pharmaceutiques et Biologiques, 4 Avenue de l'Observatoire, 75270 Paris cedex 06, France

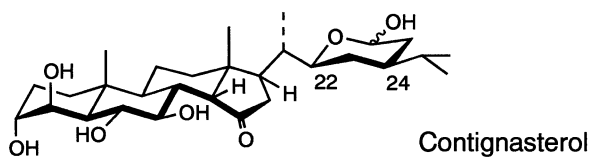


Stereocontrolled synthesis of contignasterol's side chain

Tetrahedron Letters 42 (2001) 8977

Irene Izzo,* Vincenza Pironti, Carmela Della Monica, Guido Sodano and Francesco De Riccardis

Dipartimento di Chimica, Università di Salerno, Via S. Allende, Baronissi, I-84081 Salerno, Italy



Synthesis of silylated β -enaminones and applications to the synthesis of silyl heterocycles

Tetrahedron Letters 42 (2001) 8981

Luis A. Calvo, Ana M. González-Nogal,* Alfonso González-Ortega and M. Carmen Sañudo

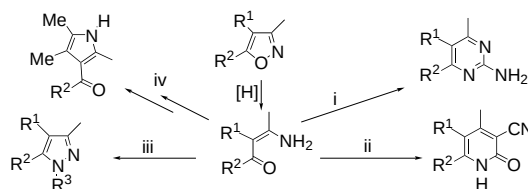
Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Valladolid, Dr Mergelina s/n, 47011 Valladolid, Spain

i = H₂NCN

ii = NCCH₂CN

iii = R³NHNH₂

iv = 1. N-Methoxy-N-methylalaninamide
2. MeLi



R¹= H, SiMe₃, SiMe₂Ph, CH₂SiMe₃
R²= SiMe₃, CH₂SiMe₃, CH₂SiMe₂Ph,
CH₂SiMePh₂, CH₂Si^tBuPh₂
R³= Me, Et, Ph, CONH₂

Unexpected ring C enlargement of the aspidospermane skeleton

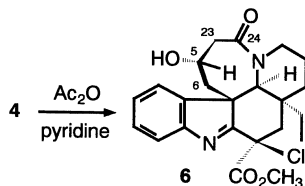
Tetrahedron Letters 42 (2001) 8985

Guy Lewin,^{a,*} Corinne Schaeffer^b and Reynald Hocquemiller^a

^aLaboratoire de Pharmacognosie, (BIOCIS, UPRES-A 8076 CNRS), Faculté de Pharmacie, av. J.B. Clément, 92296 Châtenay-Malabry, Cedex, France

^bInstitut de Recherches Servier, 11 rue des Moulineaux, 92150 Suresnes, France

Treatment of (–)-16-chloro-1-dehydro-5-methoxy-vincadifformine **4** with Ac₂O–pyridine led to the rearranged compound **6** through an unexpected ring C expansion.

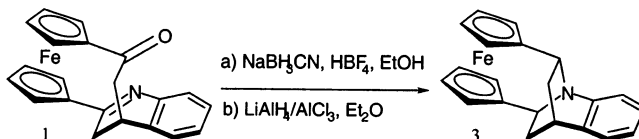


Synthesis and electrochemical properties of a new range of strained 2-aza-[3]ferrocenophanes

Tetrahedron Letters 42 (2001) 8989

Alberto Tarraga,^{*} Pedro Molina,^{*} Juan Luis Lopez and Maria D. Velasco^{*}

Departamento de Química Orgánica, Facultad de Química, Universidad de Murcia, Campus de Espinardo, E-30100 Murcia, Spain



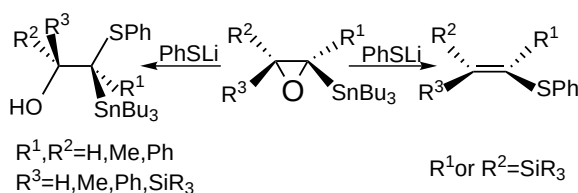
Regio- and stereospecific cleavage of stannylepoxides with lithium phenylsulfide

Tetrahedron Letters 42 (2001) 8993

Purificación Cuadrado and Ana M. González-Nogal^{*}

Departamento de Química Orgánica, Universidad de Valladolid, 47011 Valladolid, Spain

α -Phenylthio- β -hydroxystannanes and α - or β -silylated vinylsulfides have been synthesized.

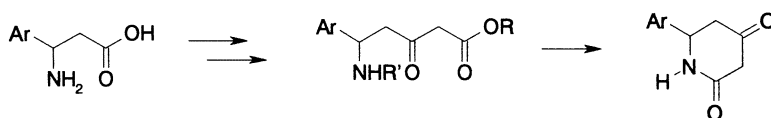


An expedient synthesis of 6-arylpiperidine-2,4-diones by chain-extension of β -aryl- β -aminoacids

Tetrahedron Letters 42 (2001) 8997

Nicolas Leflemme, Patrick Dallemagne^{*} and Sylvain Rault

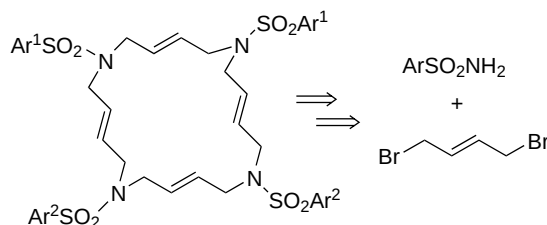
Centre d'Etudes et de Recherche sur le Médicament de Normandie, UFR des Sciences Pharmaceutiques, 1, rue Vaubénard, 14032 Caen cedex, France



Preparation of nitrogen-containing 20-membered tetraolefinic macrocycles: (*E,E,E,E*)-1,6,11,16-tetra(arylsulfonyl)-1,6,11,16-tetraazacyclicosa-3,8,13,18-tetraenes

Tetrahedron Letters 42 (2001) 9001

Belén Blanco, Silvia Cerezo, Marcial Moreno-Mañas,* Roser Pleixats and Jan Spengler
Department of Chemistry, Universitat Autònoma de Barcelona, Cerdanyola, 08193 Barcelona, Spain



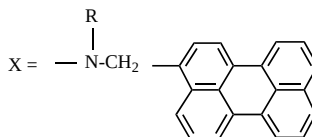
Synthesis and binding properties of perylene-oligo-2'-deoxyribo-nucleotide conjugates

Tetrahedron Letters 42 (2001) 9005

Ulysse Asseline* and Eric Cheng

Centre de Biophysique Moléculaire, CNRS UPR 4301, affiliated with the University of Orléans and with INSERM, Rue Charles Sadron, 45071 Orléans Cedex 02, France

- 8** X-(CH₂)₂-O-p-^{5'}TTTTCTTTTC^{3'}
9 X-(CH₂)₆-O-p-^{5'}TTTTCTTTTC^{3'}
14 ^{5'}TTTTCTTTTC^{3'}-p-NH-(CH₂)₈-X



8, 9 R = H

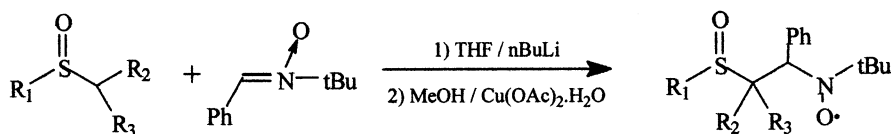
14 R = H₃C-C(=O)-

Synthesis of β -sulfinyl nitroxides

Tetrahedron Letters 42 (2001) 9011

Eric Drockenmuller and Jean-Marie Catala*

Institut Charles Sadron, 6 rue Boussingault, 67083 Strasbourg Cedex, France



R ₁	R ₂	R ₃
Ph	H	H
Me	H	H
Et	Me	H
iPr	Me	Me

Novel indole-type glucosinolates from woad (*Isatis tinctoria* L.)

Tetrahedron Letters 42 (2001) 9015

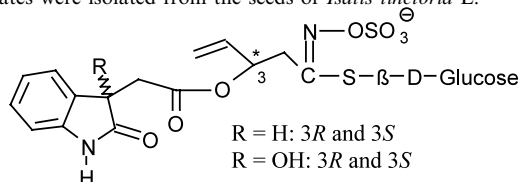
Antoine Fréchar, ^aNicolas Fabre, ^{a,*} Christophe Péan, ^bSabine Montaut, ^aMarie-Thérèse Fauvel, ^aPatrick Rollin^c and Isabelle Fourasté^a

^aLaboratoire Pharmacophores Rédox, Phytochimie et Radiobiologie, EA 3030, Université Paul Sabatier, Faculté des Sciences Pharmaceutiques, 35 chemin des Maraîchers, F-31062 Toulouse cedex 4, France

^bInstitut de Recherches Servier, 11 rue des Moulineaux, F-92150 Suresnes, France

^cInstitut de Chimie Organique et Analytique, UMR 6005, Université d'Orléans, BP 6759, F-45067 Orléans cedex 2, France

Four novel indole-type glucosinolates were isolated from the seeds of *Isatis tinctoria* L.

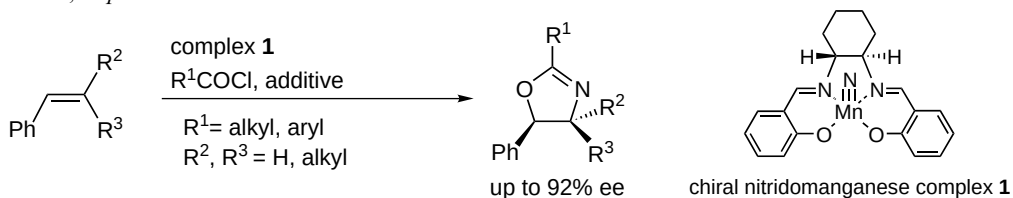


Direct asymmetric synthesis of oxazolines from olefins using a chiral nitridomanganese complex: a novel three-component coupling leading to chiral oxazolines

Tetrahedron Letters 42 (2001) 9019

Satoshi Minakata, Masaaki Nishimura, Toru Takahashi, Yoji Oderaotoshi and Mitsuo Komatsu*

Department of Applied Chemistry, Graduate School of Engineering, Osaka University, Yamadaoka 2-1, Suita, Osaka 565-0871, Japan



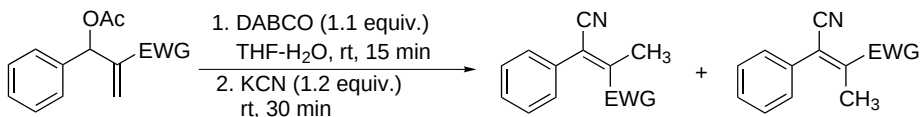
Synthesis of ethyl 3-cyano-2-methylcinnamates and 3-cyano-2-methylcinnamionitriles from the Baylis–Hillman acetates

Tetrahedron Letters 42 (2001) 9023

Yun Mi Chung,^a Ji Hyeon Gong,^a Taek Hyeon Kim^b and Jae Nyoung Kim^{a,*}

^aDepartment of Chemistry and Institute of Basic Science, Chonnam National University, Kwangju 500-757, South Korea

^bFaculty of Applied Chemistry, Chonnam National University, Kwangju 500-757, South Korea



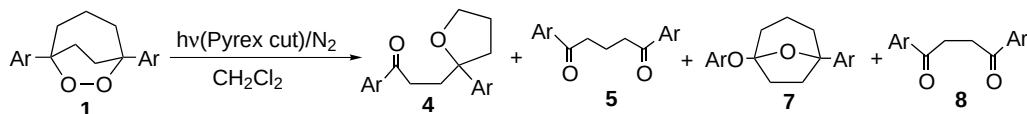
Novel photo-rearrangement of 1,5-di(*p*-methoxyphenyl)-6,7-dioxabicyclo[3.2.2]nonane through an *O*-neophyl-type 1,2-aryl shift: evidence for a 1,6-dioxyl diradical intermediate

Tetrahedron Letters 42 (2001) 9027

Masaki Kamata* and Ken-ichi Komatsu

Department of Chemistry, Faculty of Education and Human Science, Niigata University, Ikarashi, Niigata 950-2181, Japan

Photolysis and thermolysis of **1** were studied. The photolysis of **1a** (Ar = *p*-MeOC₆H₄) afforded a rearrangement product **7a** via a novel *O*-neophyl-type 1,2-aryl shift, while the thermolysis afforded **5a** and **8a**.



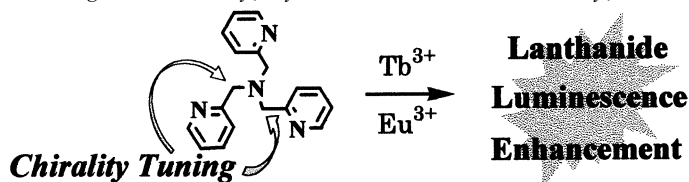
Stereo-controlled substitution on tris(2-pyridylmethyl)amine ligands and chirality tuning of luminescence in their lanthanide complexes

Tetrahedron Letters 42 (2001) 9031

Takashi Yamada,^a Satoshi Shinoda,^a Jun-ichi Uenishi^b and Hiroshi Tsukube^{a,*}

^aDepartment of Chemistry, Graduate School of Science, Osaka City University, Sugimoto, Sumiyoshi-ku, Osaka 558-8585, Japan

^bDepartment of Pharmaceutical Organic Chemistry, Kyoto Pharmaceutical University, Misasagi, Yamashina, Kyoto 607-8412, Japan



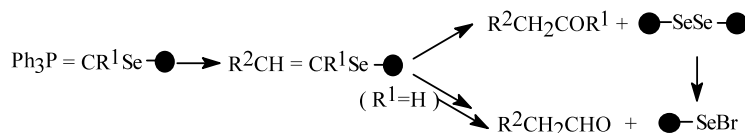
Reactions of aldehydes with polymer-supported selenoalkylidenetri-phenylphosphoranes. A facile method for the synthesis of carbonyl compounds

Tetrahedron Letters 42 (2001) 9035

Xian Huang^{a,b,*} and Shou-Ri Sheng^a

^aDepartment of Chemistry, Zhejiang University, Xixi Campus, Hangzhou 310028, PR China

^bState Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai 200032, PR China

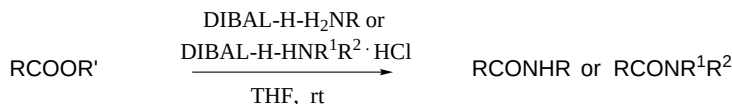


DIBAL-H-H₂NR and DIBAL-H-HNR¹R²·HCl complexes for efficient conversion of lactones and esters to amides

Tetrahedron Letters 42 (2001) 9039

Pei-Qiang Huang,^{*} Xiao Zheng and Xian-Ming Deng

Department of Chemistry, Xiamen University, Xiamen, Fujian 361005, PR China

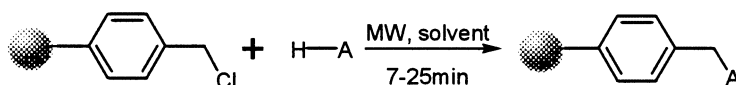


Microwave-assisted preparation of functionalised resins for combinatorial synthesis

Tetrahedron Letters 42 (2001) 9043

Hao Yang, Yanqing Peng, Gonghua Song^{*} and Xuhong Qian

Institute of Pesticides & Pharmaceuticals, East China University of Science and Technology, Shanghai 200237, China



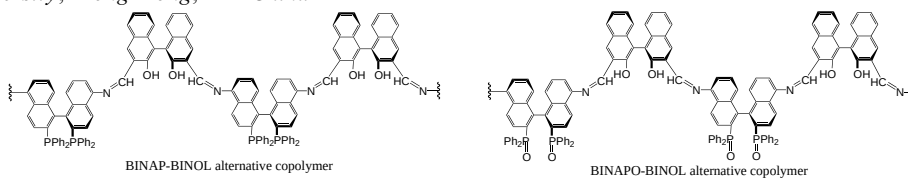
New soluble bifunctional polymeric chiral ligands for enantioselectively catalytic reactions

Tetrahedron Letters 42 (2001) 9047

Qing-Hua Fan,^{a,*} Guo-Hua Liu,^a Guo-Jun Deng,^a Xiao-Min Chen^a and Albert S. C. Chan^{b,*}

^aLMRSS, Center for Molecular Science, Institute of Chemistry, The Chinese Academy of Sciences, Beijing 100080, PR China

^bOpen Laboratory of Chirotechnology and Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, PR China



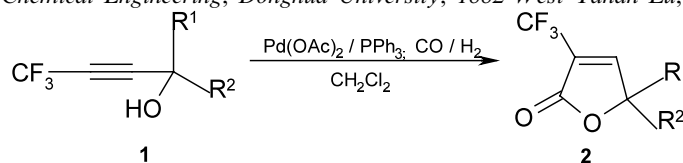
Palladium-catalyzed cyclocarbonylation of trifluoromethyl propargylic alcohols producing 3-trifluoromethyl-2(5*H*)-furanones (γ -lactones)

Tetrahedron Letters 42 (2001) 9051

Zhong-Xing Jiang^a and Feng-Ling Qing^{a,b,*}

^aLaboratory of Organofluorine Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, China

^bCollege of Chemistry and Chemical Engineering, Donghua University, 1882 West Yanan Lu, Shanghai 200051, China



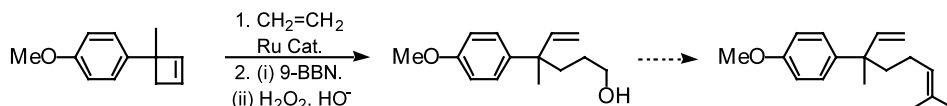
Employment of a cyclobutene ring-opening metathesis reaction towards a concise synthesis of ($\pm$)-sporochinol A

Tetrahedron Letters 42 (2001) 9055

Martin J. Bassindale,^a Peter Hamley^b and Joseph P. A. Harrity^{a,*}

^aDepartment of Chemistry, University of Sheffield, Brook Hill, Sheffield S3 7HF, UK

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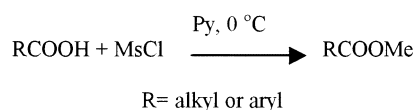
A new reagent for the methylation of carboxyl groups

Tetrahedron Letters 42 (2001) 9059

Bina S. Siddiqui,^{*} Firdous and Sabira Begum

H.E.J. Research Institute of Chemistry, University of Karachi, Karachi 75270, Pakistan

The general applicability of methanesulfonyl chloride as a methylating agent for carboxyl groups has been observed for the first time.



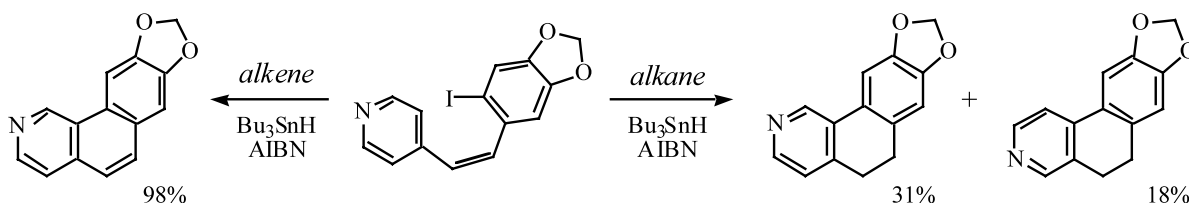
Intramolecular radical cyclisations to pyridines

Tetrahedron Letters 42 (2001) 9061

David C. Harrowven,^{a,*} Benjamin J. Sutton^a and Steven Coulton^b

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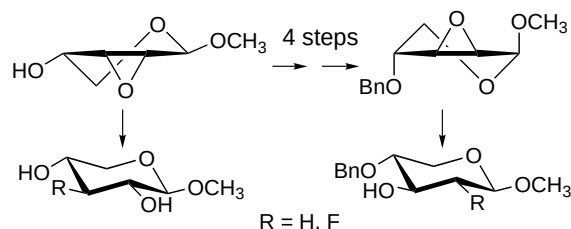
A common access to 2- and 3-substituted methyl β -D-xylopyranosides

Tetrahedron Letters 42 (2001) 9065

Mária Mastihubová* and Peter Biely

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The synthesis of diacetates of methyl β -D-xylopyranoside substituted at positions 2 and 3 by hydrogen or fluorine via a new common route is reported.



Syntheses of (6S)-6-fluoro- and (6R)-6-hydroxyshikimic acids

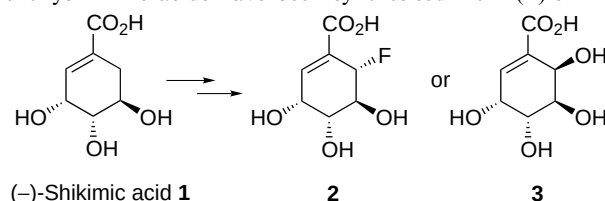
Tetrahedron Letters 42 (2001) 9069

Chuanjun Song,^{a,b} Shende Jiang^a and Gurdial Singh^{a,*}

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(6S)-6-Fluoro- and (6R)-6-hydroxyshikimic acids have been synthesised from (–)-shikimic acid.



Indium mediated Barbier-type allylation of aldimines in alcoholic solvents

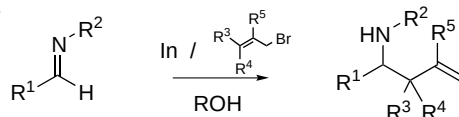
Tetrahedron Letters 42 (2001) 9073

Tirayut Vilaivan,^{a,*} Chutima Winotapan,^a Tetsuro Shinada^b and Yasufumi Ohfuné^b

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^b*Department of Material Science, Graduate School of Science, Osaka City University, 3-3-138, Sugimoto, Sumiyoshi-ku, Osaka 558-8585, Japan*

Barbier-type allylation of aldimines with allyl bromides in the presence of indium powder took place rapidly in alcoholic solvents to give homoallylic amines in fair to good yields.



Synthesis of menthyl sulfinate and sulfoxides on solid phase

Tetrahedron Letters 42 (2001) 9077

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