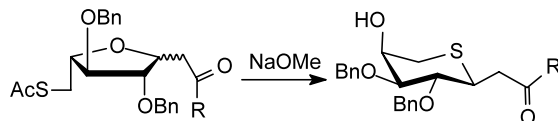


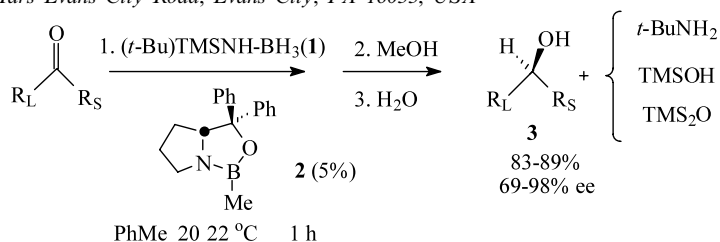
Synthesis of thio-*C*-glycosides from 2'-carbonylalkyl *C*-glycosides by a tandem β -elimination and intramolecular hetero-Michael addition

Tetrahedron Letters 44 (2003) 4431

Wei Zou,^{a,*} Edith Lacroix,^a Zerong Wang^a and Shih-Hsiung Wu^b^a*Institute for Biological Sciences, National Research Council of Canada, 100 Sussex Drive, Ottawa, Ontario K1A 0R6, Canada*^b*Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan*

Asymmetric oxazaborolidine-catalyzed reduction of prochiral ketones with *N*-*tert*-butyl-*N*-trimethylsilylamine-borane

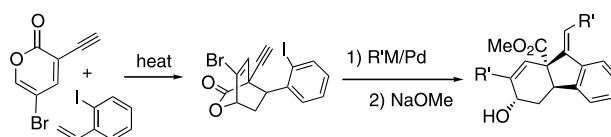
Tetrahedron Letters 44 (2003) 4435

Ramón E. Huertas,^{a,b} Joseph A. Corella^{a,b} and John A. Soderquist^{a,b,*}^a*Department of Chemistry, University of Puerto Rico, Rio Piedras, PR 00931, USA*^b*Callery Chemical Company, 1420 Mars-Evans City Road, Evans City, PA 16033, USA*

Synthesis of tetrahydrofluorenes from the cycloadduct of 3-ethynyl-5-bromo-2-pyrone via cyclocarbopalladation reactions

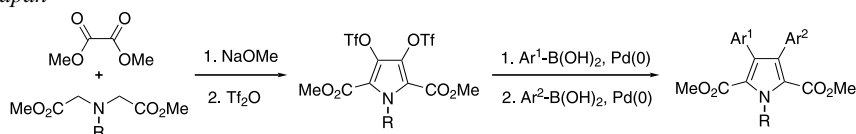
Tetrahedron Letters 44 (2003) 4439

Soo-Hyun Min, Soo-Jin Pang and Cheon-Gyu Cho*

Department of Chemistry, Hanyang University, Seoul 133-791, Republic of Korea

Short and flexible route to 3,4-diarylpyrrole marine alkaloids: syntheses of permethyl storniamide A, ningalin B, and lamellarin G trimethyl ether

Tetrahedron Letters 44 (2003) 4443

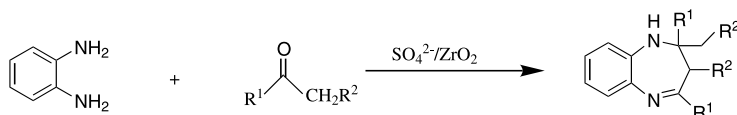
Masatomo Iwao,^{a,*} Toshiro Takeuchi,^a Naotaka Fujikawa,^a Tsutomu Fukuda^a and Fumito Ishibashi^b^a*Department of Applied Chemistry, Faculty of Engineering, Nagasaki University, 1-14 Bunkyo-machi, Nagasaki 852-8521, Japan*^b*Division of Marine Life Science and Biochemistry, Faculty of Fisheries, Nagasaki University, 1-14 Bunkyo-machi, Nagasaki 852-8521, Japan*

An efficient synthesis of 1,5-benzodiazepine derivatives catalyzed by a solid superacid sulfated zirconia

Tetrahedron Letters 44 (2003) 4447

Benjaram M. Reddy* and Pavani M. Sreekanth

Inorganic and Physical Chemistry Division, Indian Institute of Chemical Technology, Hyderabad 500 007, India



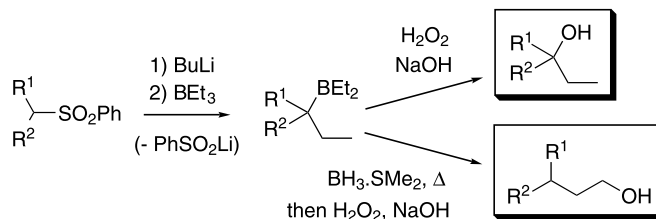
Preparation of alcohols from sulfones and trialkylboranes

Tetrahedron Letters 44 (2003) 4451

Célia Billaud,^a Jean-Philippe Goddard,^a Thierry Le Gall^{a,*} and Charles Mioskowski^{a,b,*}

^aCEA-Saclay, Service de Marquage Moléculaire et de Chimie Bioorganique, Bât. 547, 91191 Gif-sur-Yvette, France

^bLaboratoire de Synthèse Bio-Organique, UMR CNRS 7514, Faculté de Pharmacie, Université Louis Pasteur, 74 route du Rhin, BP 24, 67401 Illkirch, France



Efficient synthesis of thiazoloquinazolinone derivatives

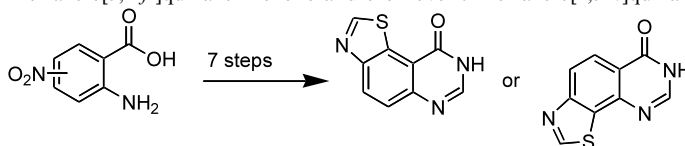
Tetrahedron Letters 44 (2003) 4455

François-René Alexandre,^{a,b} Amaya Bercibar,^b Roger Wrigglesworth^b and Thierry Besson^{a,*}

^aLaboratoire de Génie Protéique et Cellulaire, EA3169, Groupe de Chimie Organique, UFR Sciences Fondamentales et Sciences pour l'Ingénieur, Bâtiment Marie Curie, Université de la Rochelle, F-17042 La Rochelle cedex 1, France

^bPFIZER Global Research & Development, Fresnes Laboratories, 3-9 rue de la Loge, BP100, F-94265 Fresnes cedex, France

An original route to the rare 8*H*-thiazolo[5,4-*f*]quinazolin-9-one and the novel 7*H*-thiazolo[4,5-*h*]quinazolin-6-one is described.

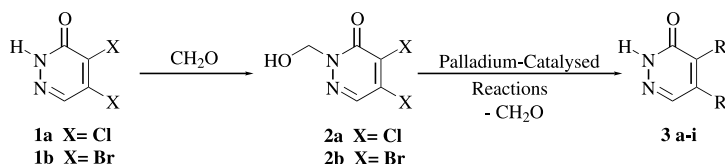


Pyridazines. Part 34: Retro-ene-assisted palladium-catalyzed synthesis of 4,5-disubstituted-3(2*H*)-pyridazinones

Tetrahedron Letters 44 (2003) 4459

Eddy Sotelo, Alberto Coelho and Enrique Raviña*

Laboratorio de Química Farmacéutica, Departamento de Química Orgánica, Facultad de Farmacia, Universidad de Santiago de Compostela, 15782 Santiago de Compostela, Spain



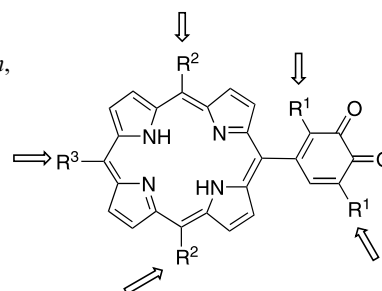
Synthetic potential and limitations of *o*-quinones as acceptor groups in electron transfer compounds

Tetrahedron Letters 44 (2003) 4463

Mathias O. Senge,* Sabine Hatscher, Zeynep Ökten and Marcus Speck

Institut für Chemie, Universität Potsdam, Karl-Liebknecht-Str. 24–25, D-14476 Golm, Germany

Syntheses for porphyrin-*o*-quinone diads and triads are described. Depending on the substituents R¹ and R² porphyrin decomposition, quinone ring-opening reactions or oxidative quinone dimerizations can occur.

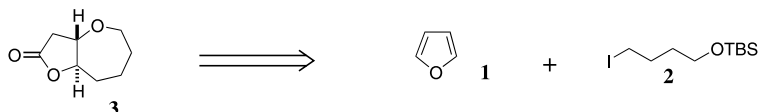


Synthesis of seven-membered oxacycles. Part 2: The furan approach

Tetrahedron Letters 44 (2003) 4467

Yagamare Fall,* Beatriz Vidal, David Alonso and Generosa Gómez

Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Vigo, 36200 Vigo, Spain

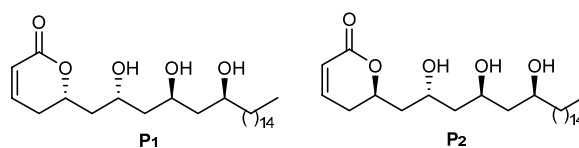


Enantioselective allyltitanations: synthesis of the proposed structures for passifloricin A

Tetrahedron Letters 44 (2003) 4471

Samir BouzBouz and Janine Cossy*

Laboratoire de Chimie Organique associé au CNRS, ESPCI, 10 rue Vauquelin, 75231 Paris Cedex 05, France

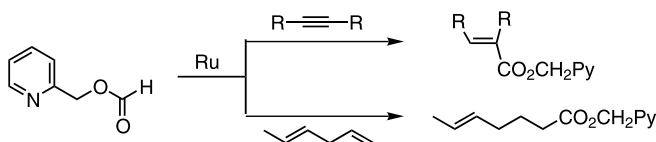


Ruthenium-catalyzed hydroesterification of alkynes and dienes based on a chelation-approach

Tetrahedron Letters 44 (2003) 4475

Youngim Na, Sangwon Ko, Lee Kyoung Hwang and Sukbok Chang*

Center for Molecular Design and Synthesis, Department of Chemistry and School of Molecular Science (BK 21), Korea Advanced Institute of Science and Technology (KAIST), Daejeon 305-701, Republic of Korea



Physarigins A–C, three new yellow pigments from a cultured myxomycete *Physarum rigidum*

Tetrahedron Letters 44 (2003) 4479

Yuka Misono,^a Akira Ito,^b Jun Matsumoto,^c Shigeru Sakamoto,^d Kentaro Yamaguchi^d and Masami Ishibashi^{a,*}

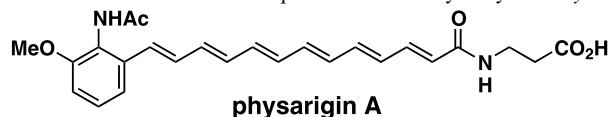
^aGraduate School of Pharmaceutical Sciences, Chiba University, 1-33 Yayoi-cho, Inage-ku, Chiba 263-8522, Japan

^bKyorin Pharmaceutical Co., Ltd, Kanda-Surugadai 2-5, Chiyoda-ku, Tokyo 101-8311, Japan

^cDepartment of Biology, Keio University, Hiyoshi 4-1-1, Kohoku-ku, Yokohama 223-8521, Japan

^dChemical Analysis Center, Chiba University, 1-33 Yayoi-cho, Inage-ku, Chiba 263-8522, Japan

Physarigins A–C, three new pigments have been isolated from a cultured plasmodium of myxomycete *Physarum rigidum* and their structures were elucidated by spectral data.

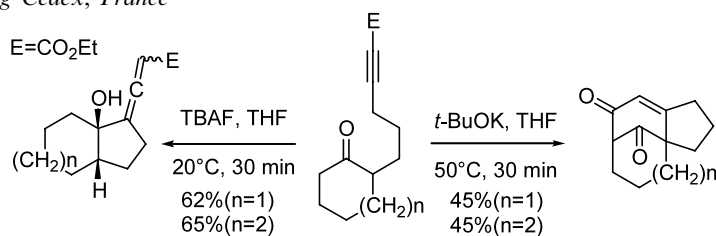


New cascade reactions starting from acetylenic ω -ketoesters: an easy access to electrophilic allenes and to 1,3-bridgehead ketones

Tetrahedron Letters 44 (2003) 4483

Aur lie Klein and Michel Miesch*

Universit  Louis Pasteur, Facult  de Chimie, Laboratoire de Chimie Organique Synth tique, 1, rue Blaise Pascal
BP 296/R8 67008 Strasbourg Cedex, France

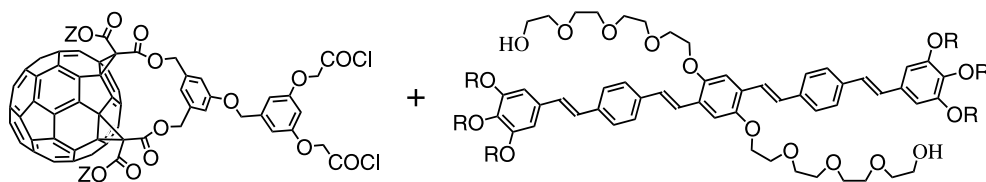


Synthesis of copolymers alternating oligophenylenevinylene subunits and fullerene moieties

Tetrahedron Letters 44 (2003) 4487

Manuel Guti rrez-Nava, Patrick Masson and Jean-Fran ois Nierengarten*

Groupe des Mat riaux Organiques, Institut de Physique et Chimie des Mat riaux de Strasbourg,
Universit  Louis Pasteur et CNRS, 23 rue du Loess, BP 43, 67034 Strasbourg Cedex 2, France



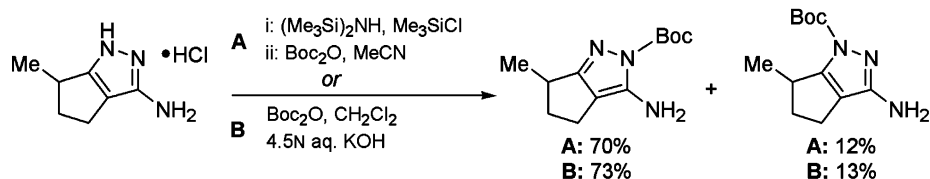
Selective ring N-protection of aminopyrazoles

Tetrahedron Letters 44 (2003) 4491

Werner Seelen,^a Martina Sch fer^b and Alexander Ernst^{a,*}

^aSchering AG, Medicinal Chemistry, Research Center Europe, M llerstra e 178, D-13342 Berlin, Germany

^bSchering AG, Structural Biology, Research Center Europe, M llerstra e 178, D-13342 Berlin, Germany

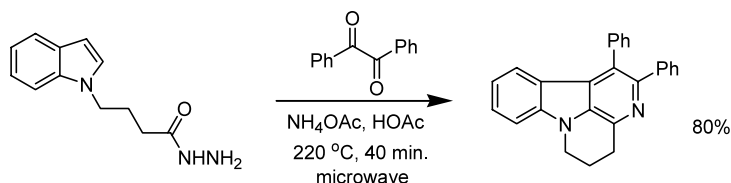


A 'one pot' microwave-mediated synthesis of the basic canthine skeleton: expedient access to unnatural β -carboline alkaloids

Tetrahedron Letters 44 (2003) 4495

Craig W. Lindsley,* David D. Wisnoski, Yi Wang, William H. Leister and Zhijian Zhao

Department of Medicinal Chemistry, Technology Enabled Synthesis Group, Merck Research Laboratories, PO Box 4, West Point, PA 19486, USA



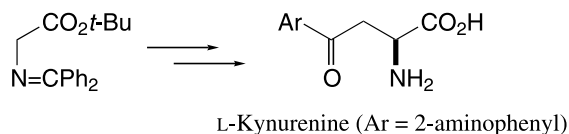
Enantioselective synthesis of aroylalanine derivatives

Tetrahedron Letters 44 (2003) 4499

Barry Lygo* and Benjamin I. Andrews

School of Chemistry, University of Nottingham, Nottingham NG7 2RD, UK

Application of the asymmetric PTC alkylation of a glycine imine to the synthesis of 3-aroylalanine derivatives, including the natural product L-kynurenine, is reported.

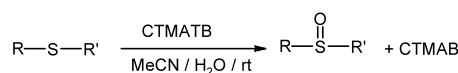


Synthesis of cetyltrimethylammonium tribromide (CTMATB) and its application in the selective oxidation of sulfides to sulfoxides

Tetrahedron Letters 44 (2003) 4503

Gopa Kar, Anil K. Saikia,* Upasana Bora, Sanjoy K. Dehury and Mihir K. Chaudhuri*

Department of Chemistry, Indian Institute of Technology Guwahati, Guwahati 781039, India



where R = R' = alkyl, aryl

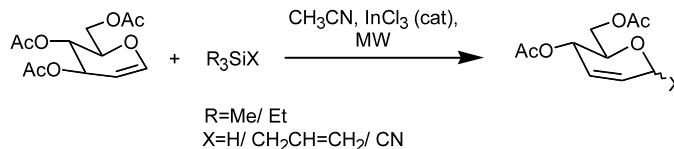
Microwave-induced, InCl₃-catalyzed Ferrier rearrangement of acetylglycals: synthesis of 2,3-unsaturated C-glycosides

Tetrahedron Letters 44 (2003) 4507

Saibal Kumar Das,* K. Anantha Reddy, Chandrasekhar Abbineni, Joyita Roy, K. V. L. Narasimha Rao, Rachna H. Sachwani and Javed Iqbal

Discovery Chemistry, Dr. Reddy's Laboratories Ltd., Discovery Research, Bollaram Road, Miyapur, Hyderabad 500050, India

Indium(III) chloride-catalyzed, microwave-assisted Ferrier rearrangement of different per-O-acetylglycals leads to an efficient synthesis of 2,3-unsaturated C-glycosides in good to excellent yields.



Infectopyrone, a potential mycotoxin from *Alternaria infectoria*

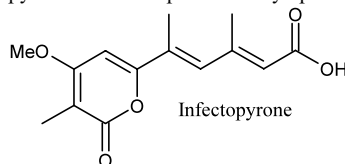
Tetrahedron Letters 44 (2003) 4511

Thomas Ostenfeld Larsen,^{a,*} Nigel B. Perry^b and Birgitte Andersen^a

^aBioCentrum-DTU, Soltofts Plads, Technical University of Denmark, 2800 Lyngby, Denmark

^bCrop and Food Research, Department of Chemistry, University of Otago, PO Box 56, Dunedin, New Zealand

A new metabolite, infectopyrone (**1**), has been isolated from the filamentous fungus *Alternaria infectoria*. The structure was elucidated by analysis of 2D NMR spectroscopic data. Infectopyrone is an α -pyrone resembling known toxins, and is a useful phenotaxonomic marker for the *A. infectoria* species-group. Infectopyrone was also produced by species within *Stemphyllium* and *Ulocladium*, and found in mouldy food.

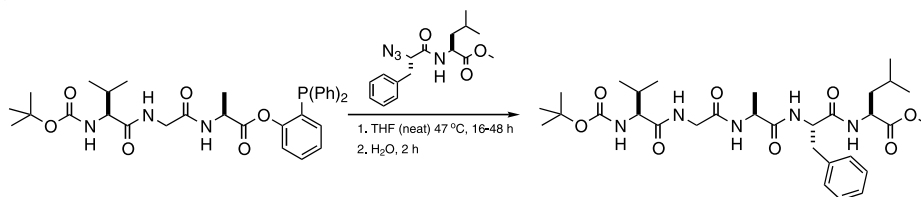


Chemoselective coupling of peptide fragments using the Staudinger ligation

Tetrahedron Letters 44 (2003) 4515

Remco Merks, Dirk T. S. Rijkers, Johan Kemmink and Rob M. J. Liskamp*

Department of Medicinal Chemistry, Utrecht Institute for Pharmaceutical Sciences, Faculty of Pharmaceutical Sciences, Utrecht University, PO Box 80082, 3508 TB Utrecht, The Netherlands



Neutral guests complexation with calix[4]arenes preorganised by intramolecular McMurry reaction

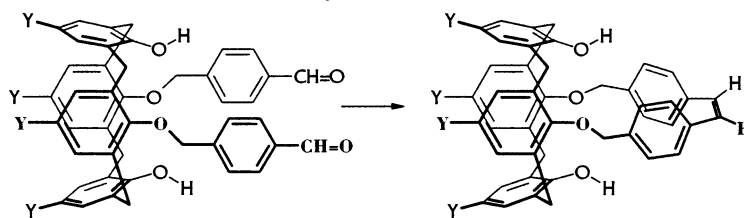
Tetrahedron Letters 44 (2003) 4519

Pavel Lhoták,^{a,*} Roman Zieba,^a Vit Hromádka,^a Ivan Stibor^{a,*} and Jan Sykora^b

^aDepartment of Organic Chemistry, Institute of Chemical Technology, Technická 5, 166 28 Prague 6, Czech Republic

^bInstitute of Chemical Process Fundamentals, ASCR, Rozvojova 135, 165 02 Prague 6, Czech Republic

Calix[4]arenes bearing aromatic aldehyde moieties on the lower rim were intramolecularly bridged by the McMurry reaction. The complexation ability towards neutral hosts was demonstrated by X-ray crystallography and ¹H NMR spectroscopy.

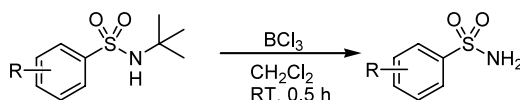


Boron trichloride as an efficient and selective agent for deprotection of *tert*-butyl aryl sulfonamides

Tetrahedron Letters 44 (2003) 4523

Yiqian Wan, Xiongyu Wu, Mahalingam A. Kannan and Mathias Alterman*

Department of Organic Pharmaceutical Chemistry, BMC, Uppsala University, PO Box 574, SE-751 23 Uppsala, Sweden



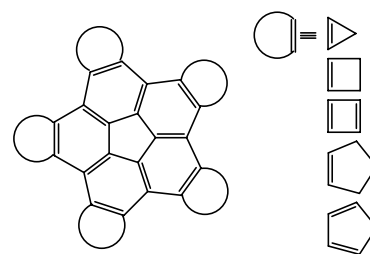
**Is *peri* hydrogen repulsion responsible for flattening buckybowls?
The effect of ring annelation to the rim of corannulene**

Tetrahedron Letters 44 (2003) 4527

T. C. Dinadayalane, S. Deepa and G. Narahari Sastry*

Molecular Modelling Group, Organic Chemical Sciences, Indian Institute of Chemical Technology, Hyderabad 500 007, India

Ring annelation to the rim of corannulene flattens the skeleton and reduces the bowl-to-bowl inversion barrier.



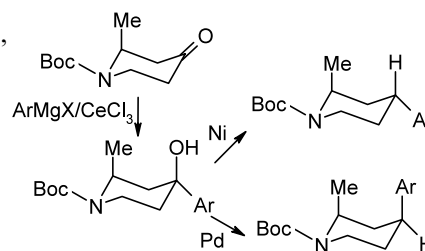
New stereoselective syntheses of *cis*- and *trans*-2-methyl-4-arylpiperidines

Tetrahedron Letters 44 (2003) 4531

Alain Merschaert,* Laurent Delhayé, Jean-Paul Kestemont, Willy Brioné, Pieter Delbeke, Vincent Mancuso, Freddy Napora, Khalid Diker, Daniel Giraud and Michel Vanmarsenille

Chemical Process Research and Development, Lilly Research Laboratories, Lilly Development Centre S.A., rue Granbonpré 11, 1348 Mont-Saint-Guibert, Belgium

The Ni-catalyzed stereoselective hydrogenolysis of *N*-Boc-2-methyl-4-aryl-piperidinols affords the corresponding *trans*-2-methyl-4-arylpiperidines derivatives. The *cis* isomers are obtained under Pd-catalysis.



**The importance of *peri*-interactions in determining the half-chair conformation of the dihydropyran ring in 2-benzopyrans.
Stereochemical consequences**

Tetrahedron Letters 44 (2003) 4535

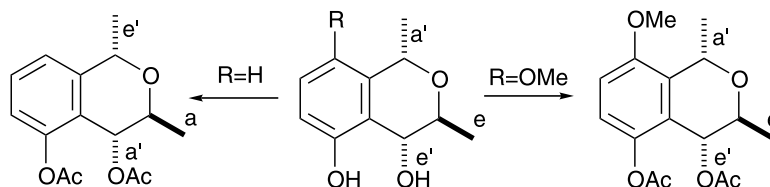
Rachna Aggarwal,^a Anthony A. Birkbeck,^a Charles B. de Koning,^b Robin G. F. Giles,^{a,*} Ivan R. Green,^c Shuk-Hui Li^a and Francois J. Oosthuizen^a

^a*Department of Chemistry, Murdoch University, Murdoch, WA 6150, Australia*

^b*Molecular Sciences Institute, School of Chemistry, University of the Witwatersrand, WITS, 2050, South Africa*

^c*Department of Chemistry, University of the Western Cape, Private Bag X17, Bellville, 7530, South Africa*

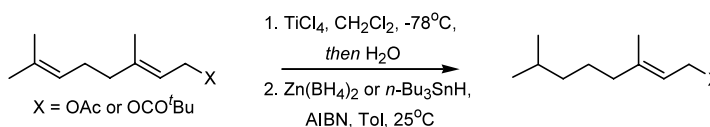
The two diols (R = H or OMe) on acetylation yield the diacetates with alternative half-chair conformations for the dihydropyran rings.



Tetrahedron Letters 44 (2003) 4539

Alexandre Demotie, Ian J. S. Fairlamb* and Sally K. Radford

Department of Chemistry, University of York, Heslington, York YO10 5DD, UK

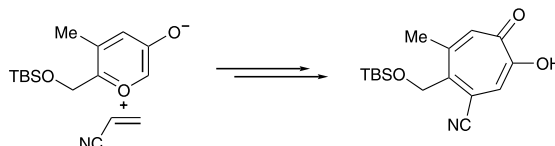


Expedient synthesis of a highly substituted tropolone via a 3-oxidopyrylium [5+2] cycloaddition reaction

Jack E. Baldwin,^{a,*} Alexander V. W. Mayweg,^a Gareth J. Pritchard^b and Robert M. Adlington^a

^aThe Dyson Perrins Laboratory, University of Oxford, South Parks Road, Oxford OX1 3QY, UK

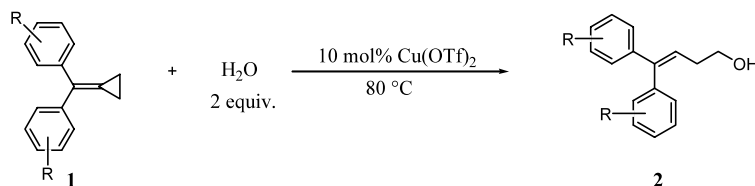
^bDepartment of Chemistry, Loughborough University, Loughborough, Leicestershire LE11 3TU, UK



Addition of water to arylidenecyclopropanes: a highly efficient method for the preparation of *gem*-aryl disubstituted homoallylic alcohols

Amal I. Siriwardana, Itaru Nakamura and Yoshinori Yamamoto*

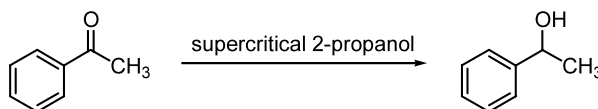
Department of Chemistry, Graduate School of Science, Tohoku University, Sendai 980-8578, Japan



Reduction of acetophenone using supercritical 2-propanol: the substituent effect and the deuterium kinetic isotope effect

Takashi Kamitanaka, Tomoko Matsuda and Tadao Harada*

Department of Materials Chemistry, Faculty of Science and Technology, Ryukoku University, Otsu, Shiga 520-2194, Japan



Tetramethylammonium fluorochromate(VI): a new and efficient oxidant for organic substrates

Ali Reza Mahjoub,^{a,*} Shahriare Ghammami^b and Mohammad Zaman Kassaei^a

^aDepartment of Chemistry, Tarbiat Modarres University, PO Box 14155-111, Tehran, Iran

^bDepartment of Chemistry, Faculty of Science, Imam Khomeini International University, Ghazvin, Iran

A new and efficient oxidant has been used for the oxidation of several organic substrates.



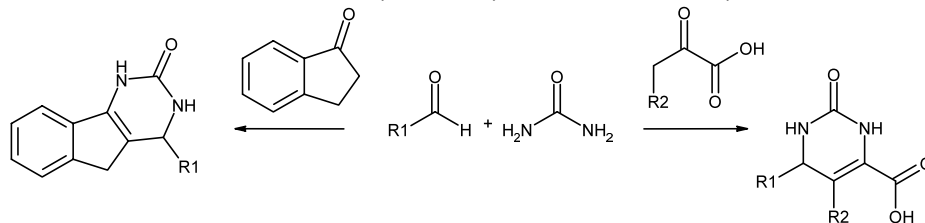
Cyclic ketones and substituted α -keto acids as alternative substrates for novel Biginelli-like scaffold syntheses

Tetrahedron Letters 44 (2003) 4559

Matthew M. Abelman,^{a,*} Stephen C. Smith^b and Donald R. James^a

^aSignature BioScience, Inc., 1240 South 47th Street, Richmond, CA 94804, USA

^bSyngenta Ltd., Jealott's Hill International Research Centre, Bracknell, Berkshire RG42 6EY, UK



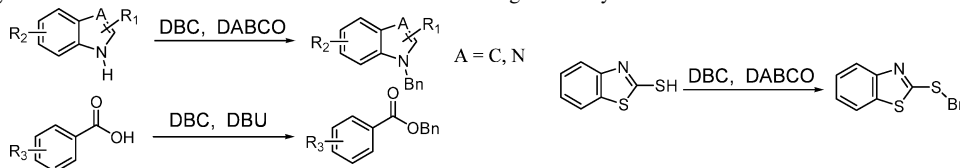
DABCO- and DBU-accelerated green chemistry for *N*-, *O*-, and *S*-benzylation with dibenzyl carbonate

Tetrahedron Letters 44 (2003) 4563

Wen-Chung Shieh,^{*} Mario Lozanov, Mauricio Loo, Oljan Repič and Thomas J. Blacklock

Chemical and Analytical Development, Novartis Institute for Biomedical Research, One Health Plaza, East Hanover, NJ 07936, USA

An environmentally friendly process for the benzylation of nitrogen, oxygen, or sulfur atoms with dibenzyl carbonate (DBC) has been developed. Catalytic amounts of DABCO or DBU can accelerate this 'green' alkylation.



A convenient synthesis of trisubstituted pyrido[2,3-*d*]pyrimidin-7-ones

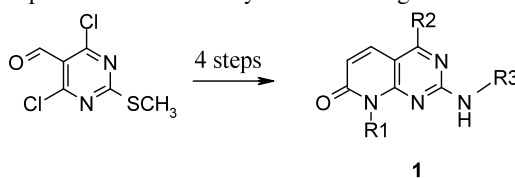
Tetrahedron Letters 44 (2003) 4567

Jiri Kasparec,^a Jerry L. Adams,^a Joseph Sisko^b and Domingos J. Silva^{a,*}

^aMedicinal Chemistry Department, GlaxoSmithKline, 1250 South Collegeville Road, Collegeville, PA 19426, USA

^bSynthetic Chemistry Department, GlaxoSmithKline, 709 Swedeland Road, PO Box 1539, King of Prussia, PA 19406, USA

A novel, highly efficient route for the synthesis of trisubstituted pyrido[2,3-*d*]pyrimidin-7-ones was developed. The target compounds were synthesized in five steps from commercially available reagents in about 40% overall yield.

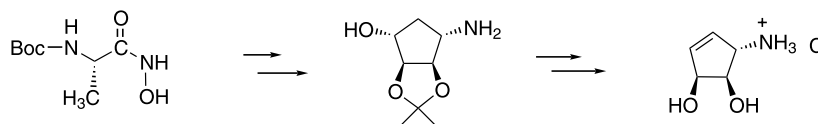


An enantioselective synthesis of the cyclopentene fragment of nucleoside Q

Tetrahedron Letters 44 (2003) 4571

Kyung-Hee Kim and Marvin J. Miller^{*}

Department of Chemistry and Biochemistry, University of Notre Dame, Notre Dame, IN 46556, USA

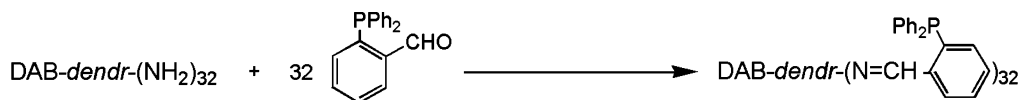


An iminophosphine dendrimeric ligand and its evaluation in the Heck reaction

Tetrahedron Letters 44 (2003) 4575

Dimitrios P. Catsoulacos, Barry R. Steele, Georgios A. Heropoulos, Maria Micha-Screttas and Constantinos G. Screttas*

Institute of Organic and Pharmaceutical Chemistry, National Hellenic Research Foundation, 48 Vas. Constantinou Ave., 116 35 Athens, Greece



Palladium-catalyzed reduction of olefins with triethylsilane

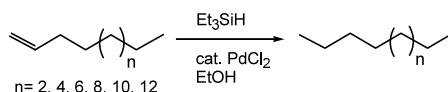
Tetrahedron Letters 44 (2003) 4579

Maryam Mirza-Aghayan,^{a,*} Rabah Boukherroub,^b Mohammad Bolourtchian^a and Maryam Hosseini^a

^a*Chemistry and Chemical Engineering Research Center of Iran (CCERCI), PO Box 14335-186, Tehran, Iran*

^b*Physique de la Matière Condensée, Ecole Polytechnique, Route de Saclay, 91128 Palaiseau, France*

The versatility of the palladium(II) chloride and triethylsilane system in the presence of ethanol as solvent has been tested in the hydrogenation of 1-alkenes.



Non-heme iron catalysts for the benzylic oxidation: a parallel ligand screening approach

Tetrahedron Letters 44 (2003) 4581

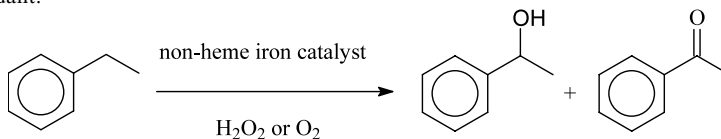
Marten Klopstra,^a Ronald Hage,^b Richard M. Kellogg^c and Ben L. Feringa^{a,*}

^a*Department of Organic and Molecular Inorganic Chemistry, Stratingh Institute, University of Groningen, Nijenborgh 4, 9747 AG Groningen, The Netherlands*

^b*Unilever R & D Vlaardingen, Olivier van Noortlaan 120, 3133 AT Vlaardingen, The Netherlands*

^c*Syncom BV, Kadijk 3, 9747 AT Groningen, The Netherlands*

Non-heme iron complexes catalyze benzylic oxidation affording the alcohol as the major product with H₂O₂ and the ketone as the major product with O₂ as the oxidant.



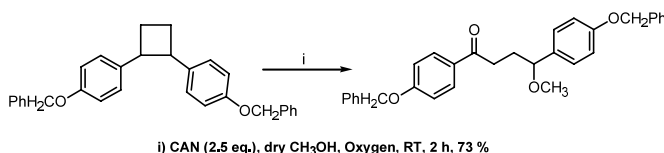
Cerium(IV) ammonium nitrate-mediated oxidative rearrangement of cyclobutanes and oxetanes

Tetrahedron Letters 44 (2003) 4585

Vijay Nair,* Roshini Rajan, Kishor Mohanan and V. Sheeba

Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum-695 019, India

A facile CAN-mediated oxidative rearrangement of alkoxyaryl cyclobutanes and oxetanes is described.



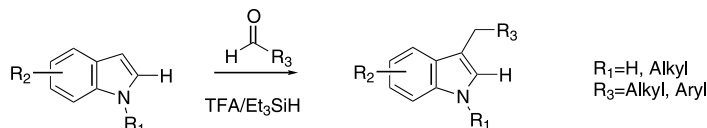
A general method for C₃ reductive alkylation of indoles

Tetrahedron Letters 44 (2003) 4589

Anu Mahadevan,^{a,*} Howard Sard,^a Mario Gonzalez^a and John C. McKew^{b,*}

^aOrganix Incorporated 240 Salem Street, Woburn, MA 01801, USA

^bWyeth Research, Department of Chemical and Screening Sciences, 200 Cambridge Park Drive, Cambridge, MA 02140, USA

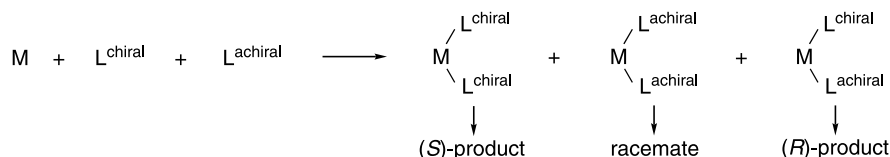


Mixtures of chiral and achiral monodentate ligands in asymmetric Rh-catalyzed olefin hydrogenation: reversal of enantioselectivity

Tetrahedron Letters 44 (2003) 4593

Manfred T. Reetz* and Gerlinde Mehler

Max-Planck-Institut für Kohlenforschung, Kaiser-Wilhelm-Platz 1, 45470 Mülheim/Ruhr, Germany



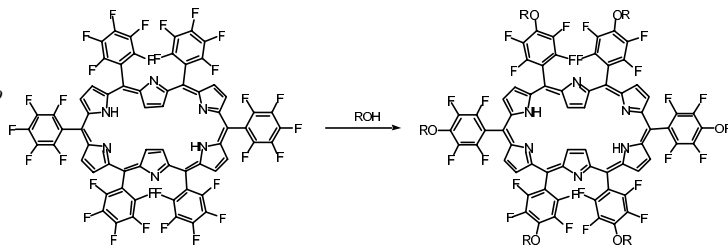
Regioselective nucleophilic substitution reaction of *meso*-hexakis(pentafluorophenyl) substituted [26]hexaphyrin

Tetrahedron Letters 44 (2003) 4597

Masaaki Suzuki, Soji Shimizu, Ji-Young Shin and Atsuhiko Osuka*

Department of Chemistry, Graduate School of Science, Kyoto University, and CREST (Core Research for Evolutional Science and Technology) of Japan Science and Technology Corporation (JST), Sakyo-ku, Kyoto 606-8502, Japan

Reaction of various alkoxides led to regioselective replacement of the *p*-fluorine substituents of *meso*-hexakis(pentafluorophenyl) substituted [26]hexaphyrin.



The first enantioselective synthesis of α-aminophosphinates

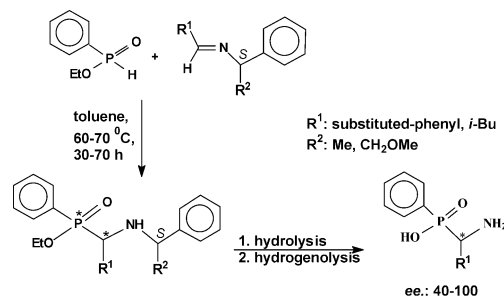
Tetrahedron Letters 44 (2003) 4603

Andrea Szabó,^a Zsuzsa M. Jászay,^b László Hegedűs,^a László Tőke^a and Imre Petneházy^{a,*}

^aDepartment of Organic Chemical Technology, Budapest University of Technology and Economics, H-1521 Budapest, Hungary

^bOrganic Chemical Technology Research Group of the Hungarian Academy of Sciences, H-1521 Budapest, Hungary

The first enantioselective synthesis of α-aminophosphinic acids was elaborated starting from ethyl phenylphosphinate and chiral imines without any catalyst.



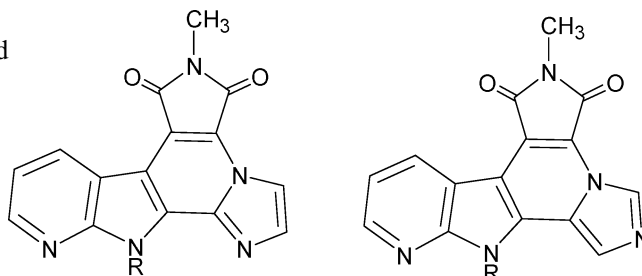
Synthesis of isogranulatimides A and B analogues possessing a 7-azaindole unit instead of an indole moiety

Tetrahedron Letters 44 (2003) 4607

Bernadette Hugon,^a Bruno Pfeiffer,^b Pierre Renard^b and Michelle Prudhomme^{a,*}

^aUniversité Blaise Pascal, Synthèse et Etude de Systèmes à Intérêt biologique, UMR 6504 du CNRS, 63177 Aubière, France

^bLes Laboratoires SERVIER, 1 rue Carle Hébert, 92415 Courbevoie, France



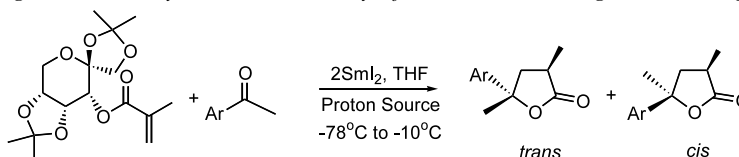
R = H or β -N-glucopyranose

Carbohydrates as chiral auxiliaries in enantioselective synthesis of four stereoisomers of optically active α,γ -substituted γ -butyrolactones

Tetrahedron Letters 44 (2003) 4613

Wei Wang, Yuwu Zhong and Guoqiang Lin*

Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, PR China



Auxiliaries based on Carbohydrates

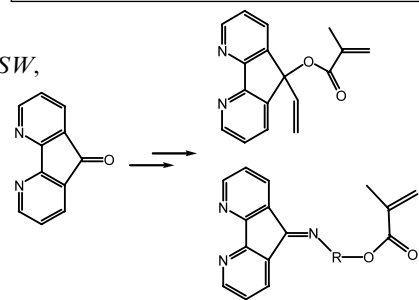
up to 99:1 for *cis:trans*
up to >99%ee for *cis*

Synthesis of ligand monomers derived from 4,5-diazafluoren-9-one

Tetrahedron Letters 44 (2003) 4617

Guangchang Zhou and Issifu I. Harruna*

Department of Chemistry, Clark Atlanta University, 223 James P. Brawley Drive SW, Atlanta, GA 30314, USA



R = $-\text{Ph}-$; $-\text{Ph}-\text{CH}_2\text{CH}_2-$