

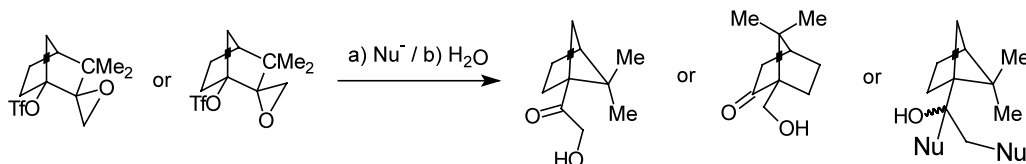
Chemoselective reaction of spiro[oxirane-2,2'-norborn]-1'-yl triflates with nucleophiles: a new case of HSAB-principle dependence

Tetrahedron Letters 42 (2001) 8293

Antonio García Martínez,^{a,*} Enrique Teso Vilar,^b Amelia García Fraile,^b Santiago de la Moya Cerero,^{a,*} Beatriz Lora Maroto^b and Cristina Díaz Morillo^a

^aDepto. de Química Orgánica I, Fac. de C.C. Químicas, Universidad Complutense de Madrid, Ciudad Universitaria, 28040 Madrid, Spain

^bDepto. de Química Orgánica y Biología, Fac. de Ciencias, UNED, Senda del Rey 9, 28040 Madrid, Spain



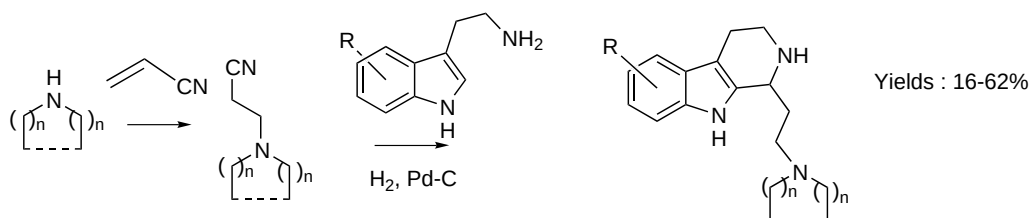
6',7'-Dihydrokeramamine C and analogues: synthesis and biological evaluation

Tetrahedron Letters 42 (2001) 8297

Annie Pouilhès,^a Monica Duval-Lungulescu,^a Stéphanie Lambel,^b Stéphane Léonce^b and Yves Langlois^{a,*}

^aLaboratoire de Synthèse des Substances Naturelles, associé au CNRS, Bâtiment 410, Université de Paris-Sud, 91405 Orsay, France

^bI.d.R. Servier, 11 rue des Moulineaux, 92150 Suresnes, France



Diethylzinc/Cu^{II}-mediated alkylation of aromatic amines and related compounds

Tetrahedron Letters 42 (2001) 8301

Cédric Brielles,^a Jerry J. Harnett^b and Eric Doris^{a,*}

^aCEA/Saclay, Service des Molécules Marquées, Département de Biologie Cellulaire et Moléculaire, 91191 Gif sur Yvette Cedex, France

^bInstitut Henri Beaufour, ZA de Courtaboeuf, 5 Av. du Canada, 91966 Les Ulis Cedex, France



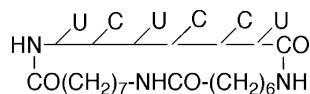
Liquid-phase synthesis of a cyclic hexameric peptide nucleic acid

Tetrahedron Letters 42 (2001) 8303

Geoffrey Depecker, Caroline Schwergold, Christophe Di Giorgio, Nadia Patino and Roger Condom^{*}

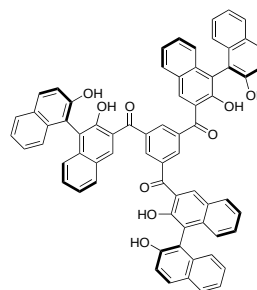
Laboratoire de Chimie Bio-Organique, UMR 6001 CNRS, Université de Nice Sophia-Antipolis, F-06108 Nice Cedex 2, France

A cyclic fully *N*-protected hexameric (aminoethylglycinamide) can be readily obtained by using a divergent approach in liquid phase and consists of coupling orthogonal fragments of suitable oligomers. This cyclic *N*-protected backbone is then converted into a peptide nucleic acid by a series of selective deprotection-coupling steps affording the desired structure in good overall yields. Such a procedure could provide a general approach for targeting any short cyclic peptide nucleic acids (containing every kind of nucleobase).

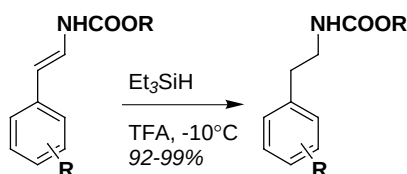
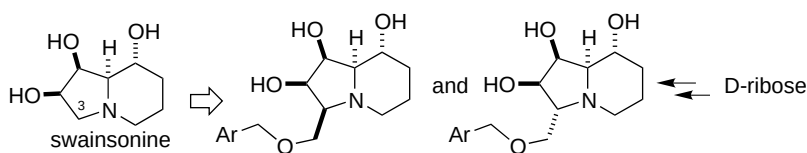


The preparation of 1,3,5-tris(1,1'-binaphthoyl)benzene via amine-catalyzed alkyne trimerization*Tetrahedron Letters 42 (2001) 8259*

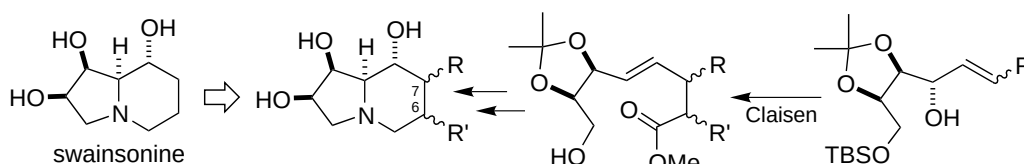
F. Christopher Pigge* and Zhanmiao Zheng

*Department of Chemistry and Biochemistry,
University of Missouri-St. Louis, St. Louis, MO 63121-4499, USA***Regioselective cationic reduction of 2-aryl-1-N-(ethoxycarbonyl)-enamines to 2-arylethylamine carbamates***Tetrahedron Letters 42 (2001) 8263*

Makoto N. Masuno and Tadeusz F. Molinski*

Department of Chemistry, University of California, Davis, One Shields Avenue, Davis, CA 95616, USA**Synthesis and mannosidase inhibitory activity of 3-benzyloxymethyl analogs of swainsonine***Tetrahedron Letters 42 (2001) 8267*William H. Pearson^{a,*} and Luyi Guo^b^a*Department of Chemistry, University of Michigan, Ann Arbor, MI 48109-1055, USA*^b*Department of Medicinal Chemistry, School of Pharmacy, University of Michigan, Ann Arbor, MI 48109-1065, USA***Synthesis and mannosidase inhibitory activity of 6- and 7-substituted analogs of swainsonine***Tetrahedron Letters 42 (2001) 8273*

William H. Pearson* and Erik J. Hembre

Department of Chemistry, University of Michigan, Ann Arbor, MI 48109-1055, USA

iPF_{2α}-III metabolism. First total synthesis of 2,3-dinor iPF_{2α}-III, a primary β-oxidation metabolite

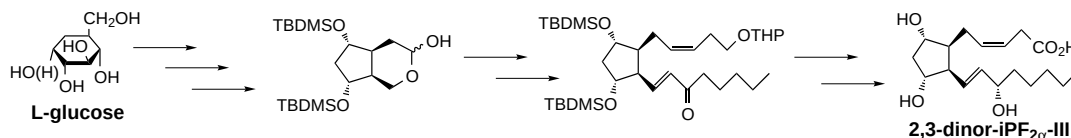
Tetrahedron Letters 42 (2001) 8277

Seongjin Kim,^a Young-Ju Jung,^a John A. Lawson,^b Garret A. FitzGerald^b and Joshua Rokach^{a,*}

^a*Claude Pepper Institute and Department of Chemistry, Florida Institute of Technology, 150 W. University Boulevard, Melbourne, FL 32901, USA*

^b*The Center for Experimental Therapeutics, University of Pennsylvania, Philadelphia, PA 19104, USA*

The first total stereospecific synthesis of a key iPF_{2α}-III metabolite is accomplished.



Total synthesis of (±)-rocaglamide and some aryl analogues

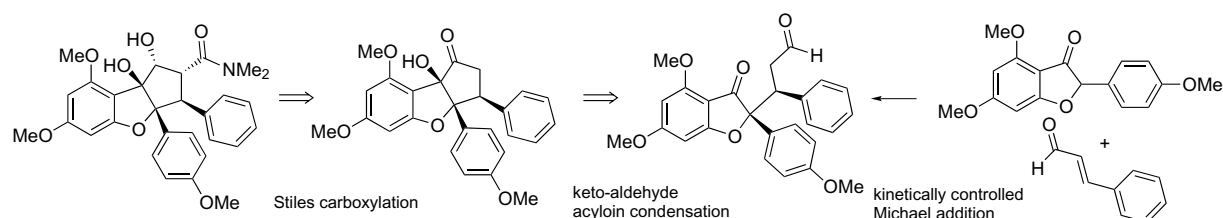
Tetrahedron Letters 42 (2001) 8281

Markus R. Dobler,^{a,*} Ian Bruce,^b Fredrik Cederbaum,^a Nigel G. Cooke,^b

Louis J. Diorazio,^b Roger G. Hall^a and Ed Irving^b

^a*Novartis Crop Protection AG, 4002 Basel, Switzerland*

^b*Novartis Pharmaceuticals, Central Research, Hulley Road, Macclesfield SK10 2NX, UK*



Nitro derivatives of 1,3-calix[4]arene bis-crown-6. Synthesis, structure and complexing properties.

Tetrahedron Letters 42 (2001) 8285

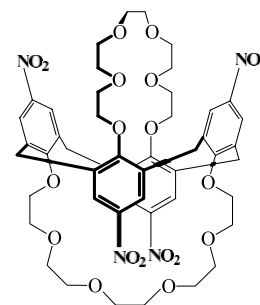
Hélène Dozol,^a Zouhair Asfari,^{a,*} Jacques Vicens,^a Pierre Thuéry,^b Martine Nierlich^b and Jean-François Dozol^c

^a*Ecole Chimie Polymères Matériaux, Groupe de Chimie des Interactions Moléculaires Spécifiques, associé au CNRS, 25 rue Becquerel, F-67087 Strasbourg, France*

^b*CEA/Saclay, SCM (CNRS URA 331), Bât. 125, F-91191 Gif sur Yvette, France*

^c*CEA/DEN Cadarache/DESD/SEP/LCD, F-13108 St Paul Lez Durance, France*

The synthesis of nitro derivatives of 1,3-calix[4]arene bis-crown-6 is reported. Complexation of cesium cation is also presented.



Photoinduced functionalization of the C-20 methyl group of the nor-diterpene atractylenin

Tetrahedron Letters 42 (2001) 8289

Silvestre Buscemi,^{*} Sergio Rosselli, Maurizio Bruno, Nicolò Vivona and Franco Piozzi

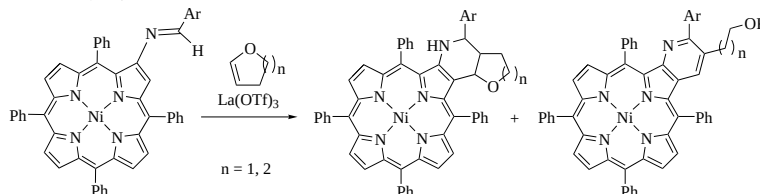
Dipartimento di Chimica Organica 'E. Paternò', Università degli Studi di Palermo, Viale delle Scienze-Parco d'Orleans II, I-90128 Palermo, Italy

Hetero-Diels–Alder reactions of β -imino-*meso*-tetraphenylporphyrin derivatives: a new approach to pyrido[2,3-*b*]porphyrins

Tetrahedron Letters 42 (2001) 8307

Cristina M. A. Alonso, Maria G. P. M. S. Neves, Augusto C. Tomé, Artur M. S. Silva and José A. S. Cavaleiro*

Department of Chemistry, University of Aveiro, 3810-193 Aveiro, Portugal



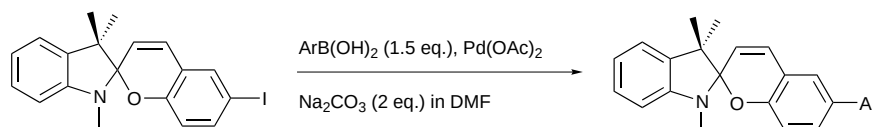
Suzuki coupling reaction of 6-iodo- or 6,8-diiodospiropyran: synthesis of spiropyran analogs

Tetrahedron Letters 42 (2001) 8311

Ji Hee Lee, Eun Soo Park and Cheol Min Yoon*

Graduate School of Biotechnology, Korea University, Sungbuk-ku, Anam-dong 1, 5-ka, 136-701, Seoul, South Korea

6-Iodospiropyrans and 6,8-diiodospiropyran were coupled with aryl boronic acid in the presence of palladium acetate and sodium carbonate in DMF to give the corresponding spiropyrans in high yields.

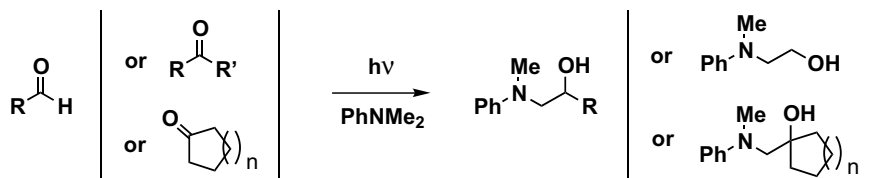


A facile preparation of ethanolamines by direct irradiation of some carbonyl compounds in *N,N*-dimethylaniline

Tetrahedron Letters 42 (2001) 8315

Sung Sik Kim,* Yoon Jung Mah and Ae Rhan Kim

Department of Chemistry, Chonbuk National University, Chonju 561-756, South Korea



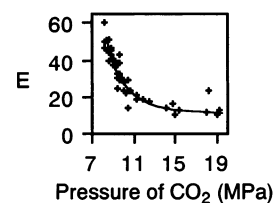
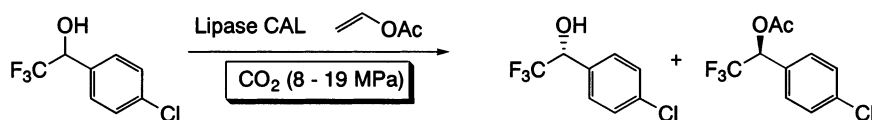
Control on enantioselectivity with pressure for lipase-catalyzed esterification in supercritical carbon dioxide

Tetrahedron Letters 42 (2001) 8319

Tomoko Matsuda,^{a,*} Ryuzo Kanamaru,^a Kazunori Watanabe,^a Tadao Harada^a and Kaoru Nakamura^b

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

^b*Institute for Chemical Research, Kyoto University, Uji, Kyoto 611-0011, Japan*



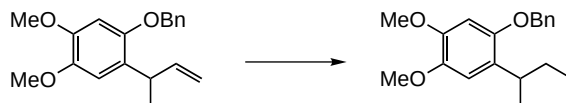
Effect of solvent and hydrogen during selective hydrogenation

Shojiro Maki,^{a,*} Yasuhiro Harada,^a Ryo Matsui,^a Makiko Okawa,^a Takashi Hirano,^a Haruki Niwa,^a Megumi Koizumi,^b Yoshinori Nishiki,^b Tsuneto Furuta,^b Hiroshi Inoue^c and Chiaki Iwakura^c

^a*Department of Applied Physics and Chemistry, The University of Electro-Communications, Chofu, Tokyo 182-8585, Japan*

^bPermelec Electrode Ltd. Endo, Fujisawa, Kanagawa 252-0816, Japan

Department of Applied Chemistry, Graduate School of Engineering, Osaka Prefecture University, Sakai, Osaka 599-8531, Japan

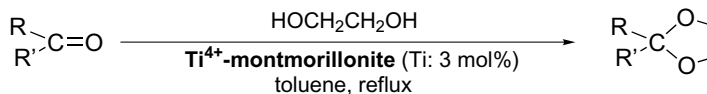


Tetrahedron Letters 42 (2001) 8329

Highly efficient heterogeneous acetalization of carbonyl compounds catalyzed by a titanium cation-exchanged montmorillonite

Tomonori Kawabata, Tomoo Mizugaki, Kohki Ebitani and Kiyotomi Kaneda*

*Department of Chemical Science and Engineering, Graduate School of Engineering Science, Osaka University,
1-3 Machikaneyama, Toyonaka, Osaka 560-8531, Japan*



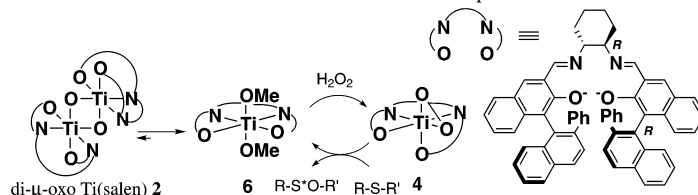
Tetrahedron Letters 42 (2001) 8333

Mechanistic consideration of Ti(salen)-catalyzed asymmetric sulfoxidation

Bunnai Saito and Tsutomu Katsuki*

Department of Chemistry, Faculty of Science, Graduate School, Kyushu University 33, CREST, JST (Japan Science and Technology)
Hakozaki, Higashi-ku, Fukuoka 812-8581, Japan

Asymmetric sulfoxidation using di- μ -oxo Ti(salen) **2** as the catalyst was revealed to proceed through C_2 -symmetric Ti(salen) **6** and peroxo Ti(salen) **4** in sequence on the basis of MS and NMR studies of the complexes and the observation of positive non-linear effect.



Tetrahedron Letters 42 (2001) 8337

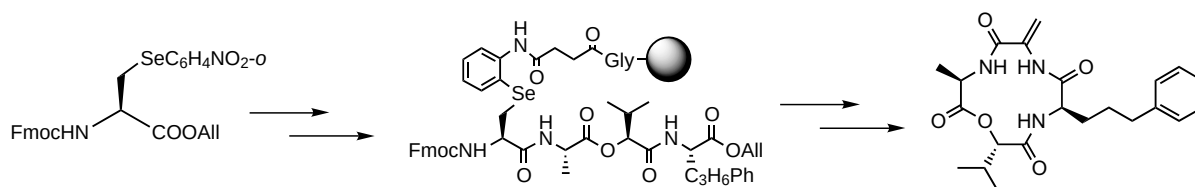
Solid-phase synthesis of dehydropeptide, AM-toxin II, using a novel selenyl linker by side-chain tethered strategy

Eiji Horikawa,^{a,b} Masato Kodaka,^a Yoshiaki Nakahara,^c Hiroaki Okuno^a and Kazuhiko Nakamura^{a,*}

^aNational Institute of Advanced Industrial Science and Technology (AIST), Central 6, Higashi 1-1-1 Tsukuba 305-8566, Japan

^bFaculty of Industrial Science and Technology, Science University of Tokyo, 2641 Yamazaki, Noda, Chiba 278-8510, Japan

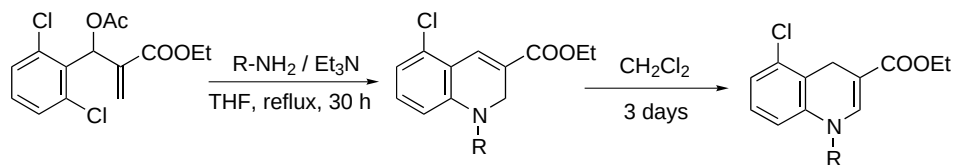
^cDepartment of Industrial Chemistry, Tokai University, Kitakaname 1117, Hiratsuka, Kanagawa 259-1292, Japan



Synthesis of *N*-substituted 1,4-dihydroquinolines from the Baylis–Hillman acetates via the successive S_N2' – S_NAr isomerization strategy

Jae Nyoung Kim,* Hyoung Shik Kim, Ji Hyeon Gong and Yun Mi Chung

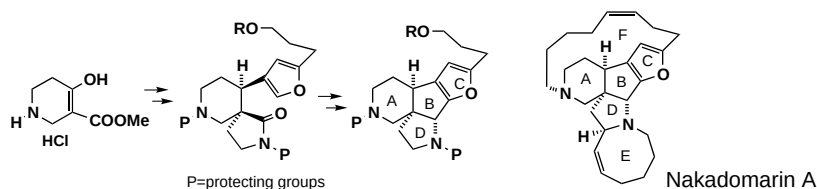
Department of Chemistry and Institute of Basic Science, Chonnam National University, Kwangju 500-757, South Korea



Synthetic approach towards nakadomarin A: efficient synthesis of the central tetracyclic core

Toshiaki Nagata, Atsushi Nishida* and Masako Nakagawa*

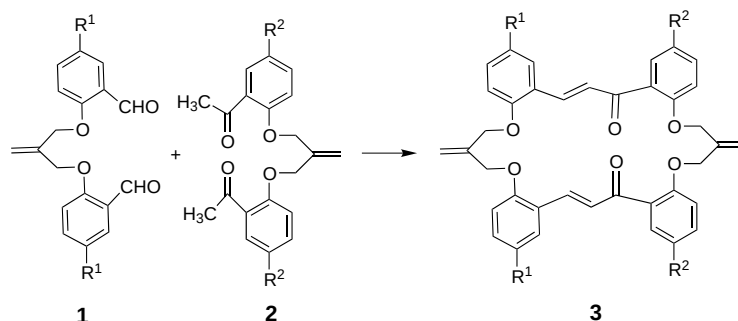
Graduate School of Pharmaceutical Sciences, Chiba University, 1-33 Yayoi-cho, Inage-ku, Chiba 263-8522, Japan



Novel synthesis of macrocycles with chalcone moieties through mixed aldol reaction

Maddali L. N. Rao, Hirohiko Houjou and Kazuhisa Hiratani*

Nanoarchitectonics Research Center,
National Institute of Industrial Science and
Technology, Tsukuba, Ibaraki 305-8562, Japan

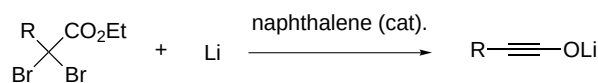


Practical synthesis of ynoate anions: naphthalene-catalyzed reductive lithiation of α,α -dibromo esters

Mitsuru Shindo,^{a,b,*} Ryoko Koretsune,^a Wakako Yokota,^a Kotaro Itoh^b and Kozo Shishido^a

^aInstitute for Medicinal Resources, University of Tokushima, Sho-machi 1, Tokushima 770-8505, Japan

^bConversion and Control by Advanced Chemistry, PRESTO, JST, Japan



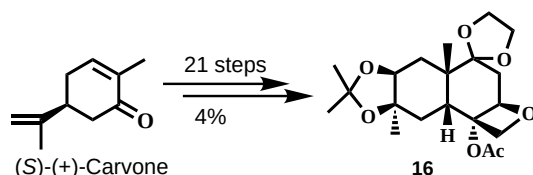
Synthesis of the CD ring in taxol from (S)-(+)-carvone

Tetrahedron Letters 42 (2001) 8361

Tony K. M. Shing,* Chi M. Lee and Ho Y. Lo

Department of Chemistry, The Chinese University of Hong Kong, Shatin, Hong Kong, China

The tricycle **16** containing a functionalized CD ring is constructed from (S)-(+)-carvone in 21 steps involving a Baeyer–Villiger oxidation, a redox reaction, a stereospecific Grignard addition, and an intramolecular S_N2 reaction as the key steps.



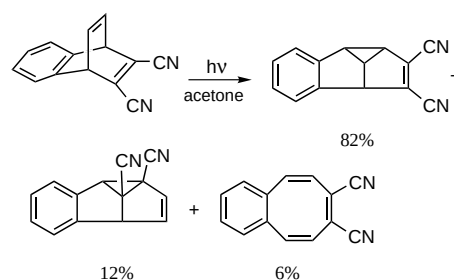
Substituent effect on regioselectivity in the di- π -methane rearrangement: synthesis of disubstituted benzobarrelene derivatives and their photochemistry

Tetrahedron Letters 42 (2001) 8365

Nermin S. Ünalı and Metin Balci*

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

2,3- and 2,5-Dicyanobenzobarrelenes have been synthesized and subjected to triplet-sensitized photoisomerization. The formation of these products is discussed in terms of the destabilizing effect of the substituents on the formation of cyclopropane ring.

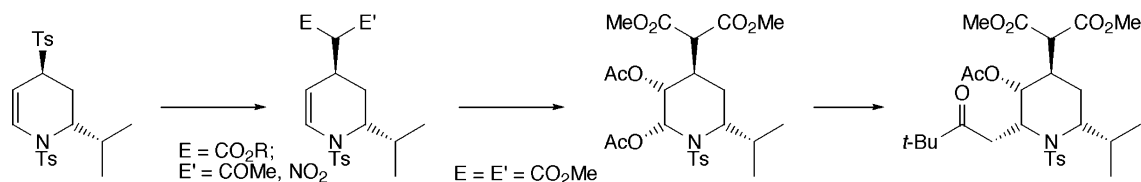


1,4-Bis(arylsulfonyl)-1,2,3,4-tetrahydropyridines in synthesis. Regio- and stereoselective S_N1 reactions

Tetrahedron Letters 42 (2001) 8369

Jean-Claude Adelbrecht, Donald Craig* and Serge Thorimbert

Centre for Chemical Synthesis, Department of Chemistry, Imperial College of Science, Technology and Medicine, London SW7 2AY, UK



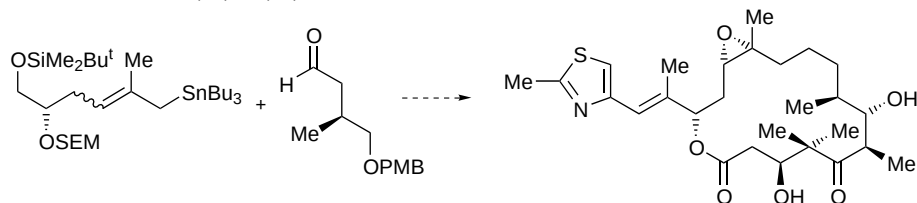
Total syntheses of epothilones B and D: applications of allylstannanes in organic synthesis

Tetrahedron Letters 42 (2001) 8373

Nathaniel Martin and Eric J. Thomas*

The Department of Chemistry, The University of Manchester, Manchester M13 9PL, UK

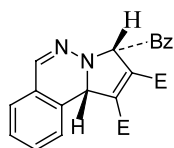
A total synthesis of epothilones B and D which features the use of allylstannane chemistry for the regiospecific and stereoselective introduction of the C(12)–C(13) double-bond is described.



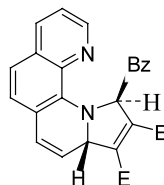
Primary cycloadducts of 1,10-phenanthroline and phthalazine with DMAD

Tetrahedron Letters 42 (2001) 8379

Florea Dumitrașcu,* Carmen Irena Mitan, Constantin Drăghici, Miron Teodor Căproiu and Dan Răileanu
Institute of Organic Chemistry 'C. D. Nenitzescu', Romanian Academy, Spl. Independentei 202B, Bucharest 15/254, R 71141 Romania



cis

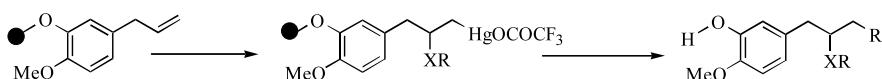


trans

Solvomercuration and demercuration of alkenes on solid-phase

Tetrahedron Letters 42 (2001) 8383

Sadagopan Raghavan,* K. A. Tony and S. Ramakrishna Reddy
Organic Division I, Indian Institute of Chemical Technology, Hyderabad 500 007, India



$X = O, NHR^1$

$R^2 = H, I, (CH_2)_2CN$

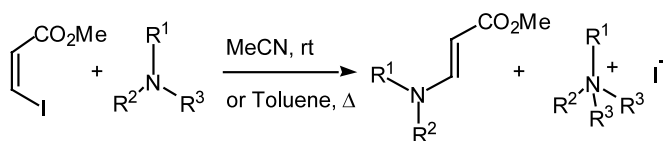
An unusual Michael addition–dealkylation or elimination via the reaction of tertiary or secondary amines with a (Z)-iodoacrylate

Tetrahedron Letters 42 (2001) 8387

Graham Maw,^a Carl Thirsk^b and Andrew Whiting^{b,*}

^aPfizer Global Research & Development, Sandwich, Kent CT13 9NJ, UK

^bDepartment of Chemistry, Faraday Building, UMIST, PO Box 88, Manchester M60 1QD, UK



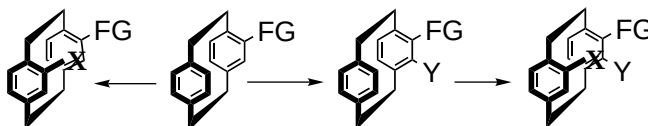
The synthesis of homochiral ligands based on [2.2]paracyclophane

Tetrahedron Letters 42 (2001) 8391

Andrew Pelter,^{a,*} Baldwin Mootoo,^b Anderson Maxwell^b and Alicia Reid^{a,b}

^aDepartment of Chemistry, University of Wales Swansea, Singleton Park, Swansea, SA2 8PP, UK

^bDepartment of Chemistry, University of the West Indies, St. Augustine, Trinidad and Tobago, West Indies



Dimethyl malonate as a one-carbon source: a novel method of introducing carbon substituents onto aromatic nitro compounds

N. Selvakumar,* B. Yadi Reddy, G. Sunil Kumar and Javed Iqbal

Discovery Chemistry (Synthesis), Dr. Reddy's Research Foundation, Bollaram Road, Miyapur, Hyderabad 500 050, India