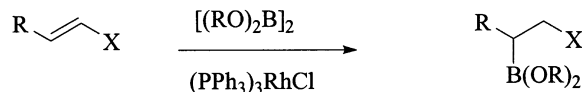
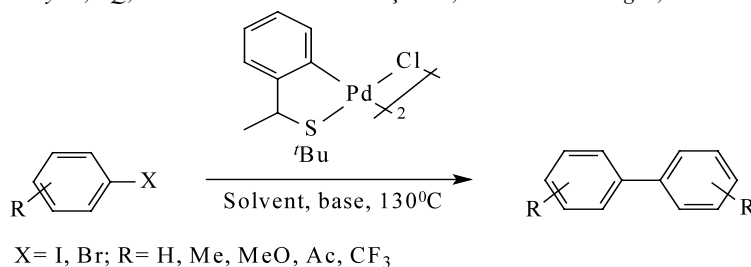


**Rhodium-catalyzed 1,4-addition reactions of diboron reagents to electron deficient olefins***Tetrahedron Letters 43 (2002) 2323*

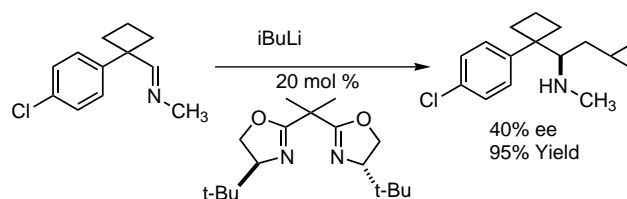
George W. Kabalka,\* Bhaskar C. Das and Sasmita Das

*Departments of Chemistry and Radiology, The University of Tennessee, Knoxville, TN 37916-1600, USA*The 1,4-addition of bis(pinacolato)diboron and bis(neopentyl glycolato)diboron to  $\alpha,\beta$ -unsaturated ketones, esters, nitriles, and aldehydes was developed using a rhodium catalyst.**Homocoupling of aryl iodides and bromides promoted by sulfur-containing palladacycles***Tetrahedron Letters 43 (2002) 2327*

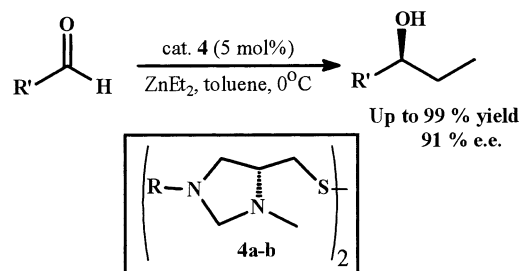
Priscila B. Silveira, Vanusa R. Lando, Jairton Dupont\* and Adriano L. Monteiro\*

*Laboratory of Molecular Catalysis, IQ, UFRGS. Av. Bento Gonçalves, 9500 Porto Alegre, 91501-970 RS Brazil***First asymmetric synthesis of (*R*)-desmethyisibutramine***Tetrahedron Letters 43 (2002) 2331*

Dhileepkumar Krishnamurthy,\* Zhengxu Han, Stephen A. Wald and Chris H. Senanayake\*

*Chemical Process Research and Development, Sepracor Inc., 111 Locke Drive, Marlborough, MA 01752, USA*A catalytic enantioselective addition of *i*BuLi to aldimine is used as the key step in the asymmetric synthesis of (*R*)-desmethyisibutramine, a single enantiomer version of a pharmacologically active metabolite of the anti-obesity drug sibutramine.**Synthesis of new chiral imidazolidine disulfides derived from L-cystine and their application in the enantioselective addition of diethylzinc to aldehydes***Tetrahedron Letters 43 (2002) 2335*

Antonio L. Braga,\* Fabrício Vargas, Claudio C. Silveira and Leandro H. de Andrade

*Departamento de Química, Universidade Federal de Santa Maria, Santa Maria, RS, 97105-900, Brazil*

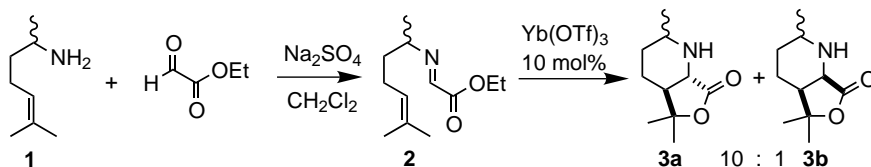
### Ytterbium(III) triflate-catalyzed electrophilic cyclization of glyoxalate-derived unsaturated imines

*Tetrahedron Letters* 43 (2002) 2339

Qiang Jia,<sup>a</sup> Wenhua Xie,<sup>a</sup> Wei Zhang,<sup>a</sup> Adam Janczuk,<sup>a</sup> Sanzhong Luo,<sup>b</sup> Baolian Zhang,<sup>b</sup> Jin Pei Cheng,<sup>b</sup> Mohamad B. Ksebati<sup>a</sup> and Peng G. Wang<sup>a,\*</sup>

<sup>a</sup>Department of Chemistry, Wayne State University, Detroit, MI 48202, USA

<sup>b</sup>Department of Chemistry, Nankai University, Tianjin 300071, PR China

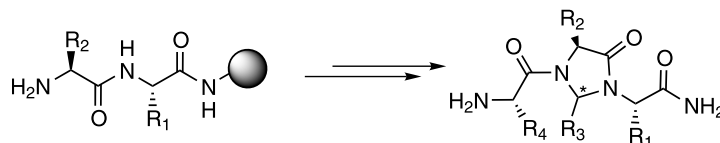


### An efficient approach for solid-phase synthesis of peptidomimetics based on 4-imidazolidinones

*Tetrahedron Letters* 43 (2002) 2343

Markéta Rinnová, Adel Nefzi and Richard A. Houghten\*

Torrey Pines Institute for Molecular Studies, 3550 General Atomics Court, San Diego, CA 92121, USA

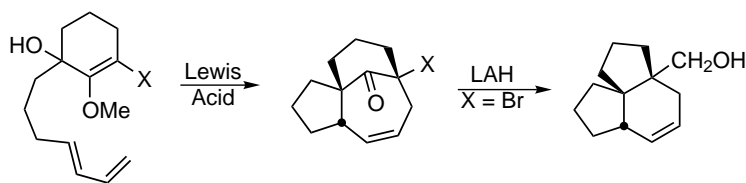


### Intramolecular 4+3 cycloadditions. A cyclohexenyl cation, its halogenated congener and a quasi-Favorskii rearrangement

*Tetrahedron Letters* 43 (2002) 2347

Michael Harmata,\* Gary Bohnert, Laszlo Kürti and Charles L. Barnes

Department of Chemistry, University of Missouri-Columbia, Columbia, MO 65211, USA



### Integrastatins: structure and HIV-1 integrase inhibitory activities of two novel racemic tetracyclic aromatic heterocycles produced by two fungal species

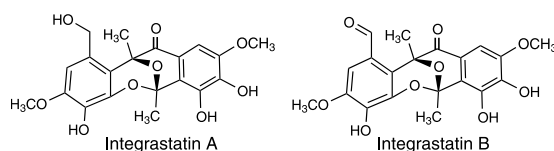
*Tetrahedron Letters* 43 (2002) 2351

Sheo B. Singh,<sup>a,\*</sup> Deborah L. Zink,<sup>a</sup> Donette S. Quamina,<sup>a</sup> Fernando Pelaez,<sup>b</sup> Ana Teran,<sup>b</sup> Peter Felock<sup>c</sup> and Daria J. Hazuda<sup>c</sup>

<sup>a</sup>Merck Research Laboratories, RY80Y-355, PO Box 2000, Rahway, NJ 07065, USA

<sup>b</sup>CIBE, Merck Sharp & Dohme de Espana, S. A. Josefa Valcárcel 38, 28027 Madrid, Spain

<sup>c</sup>Merck Research Laboratories, West Point, PA 19486, USA

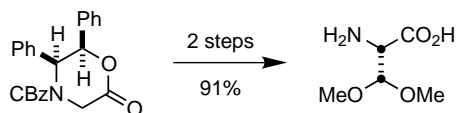


## The first asymmetric synthesis of (2*S*)- and (2*R*)-amino-3,3-dimethoxypropanoic acid

*Tetrahedron Letters* 43 (2002) 2355

Duane E. DeMong and Robert M. Williams\*

*Department of Chemistry, Colorado State University, Fort Collins, CO 80523, USA*



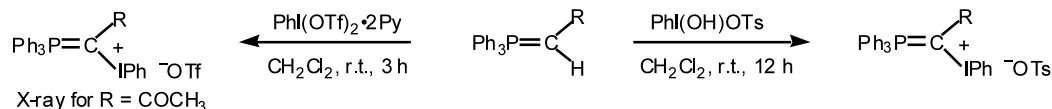
## Preparation, structure, and chemistry of phosphorane-derived phenyliodonium sulfonates

*Tetrahedron Letters* 43 (2002) 2359

Viktor V. Zhdankin,<sup>a,\*</sup> Olena Maydanovych,<sup>a</sup> Jon Herschbach,<sup>a</sup> Jessica Bruno,<sup>a</sup> Elena D. Matveeva<sup>b</sup> and Nikolai S. Zefirov<sup>b</sup>

<sup>a</sup>*Department of Chemistry, University of Minnesota Duluth, Duluth, MN 55812, USA*

<sup>b</sup>*Department of Chemistry, Moscow State University, Moscow 119899, Russia*



## First observation of non-covalent complexes for a tannin–protein interaction model investigated by electrospray ionisation mass spectroscopy

*Tetrahedron Letters* 43 (2002) 2363

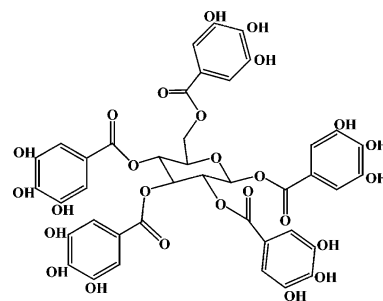
Sarah Vergé,<sup>a</sup> Tristan Richard,<sup>a</sup> Serge Moreau,<sup>b</sup> Suzanne Richelme-David,<sup>c</sup> Joseph Vercauteren,<sup>a</sup> Jean-Claude Promé<sup>d</sup> and Jean-Pierre Monti<sup>a,\*</sup>

<sup>a</sup>*GESNIT EA 491, Faculté des Sciences Pharmaceutiques, Université de Bordeaux 2, 146 rue Léo Saignat, 33076 Bordeaux cedex, France*

<sup>b</sup>*Laboratoire de Biophysique Moléculaire, INSERM U386, Université de Bordeaux 2, Bordeaux, France*

<sup>c</sup>*Service de Spectrométrie de Masse, FR 1744, Université Paul Sabatier, Toulouse, France*

<sup>d</sup>*Laboratoire de Synthèse et Physicochimie des Molécules d'Intérêt Biologique, Université Paul Sabatier, Toulouse, France*



## The constitution of micrococcin P1: the Bycroft–Gowland hypothesis confirmed

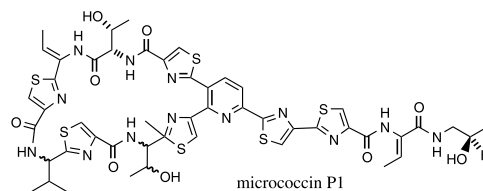
*Tetrahedron Letters* 43 (2002) 2367

Bernard Fenet,<sup>a</sup> Fabrice Pierre,<sup>b</sup> Eric Cundliffe<sup>c</sup> and Marco A. Ciufolini<sup>b,\*</sup>

<sup>a</sup>*Laboratoire de Résonance Magnétique Nucléaire-UMR CNRS 5012, Université Claude Bernard Lyon 1 et Ecole Supérieure de Chimie, Physique, Electronique de Lyon, 43, Bd du 11 Novembre 1918, 69622 Villeurbanne cedex, France*

<sup>b</sup>*Laboratoire de Synthèse et Méthodologie Organique (LSMO), UMR CNRS 5078, Université Claude Bernard Lyon 1 et Ecole Supérieure de Chimie, Physique, Electronique de Lyon, 43, Bd du 11 Novembre 1918, 69622 Villeurbanne cedex, France*

<sup>c</sup>*Department of Biochemistry, University of Leicester, Leicester LE1 7RH, UK*



Extensive 2D NMR studies confirm the hitherto unproved Bycroft–Gowland structural hypothesis for micrococcin P1.

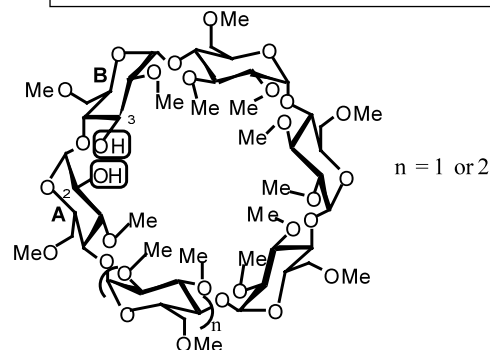
## Diisobutylaluminum-promoted secondary rim selective de-O-methylation of permethylated cyclodextrins

Tetrahedron Letters 43 (2002) 2371

Béregère du Roizel, Jean-Pierre Baltaze and Pierre Sinaÿ\*

Ecole Normale Supérieure, Département de Chimie, UMR CNRS 8642, 24 rue Lhomond, 75231 Paris Cedex 05, France

These selectively deprotected  $\alpha$ - and  $\beta$ -cyclodextrins (CDs) have been prepared in one step in 55% yield from the corresponding fully methylated CDs.



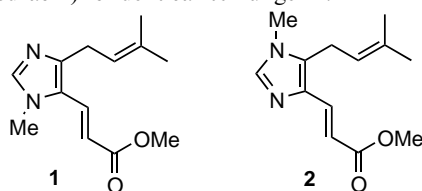
## Synthesis of visoltricin and fungerin: imidazole derivatives of *Fusarium* sp.

Tetrahedron Letters 43 (2002) 2375

Johann M. Rieder and Johann Lepschy\*

Bayerische Landesanstalt für Bodenkultur und Pflanzenbau, Vöttingerstr. 38, 85354 Freising, Germany

The imidazoles **1** and **2** were synthesized. Comparison of MS data showed that the naturally occurring isomer is fungerin **2**. Visoltricin (structure originally assigned as **1**) is identical to fungerin.



## Lycopanerols H, two high molecular weight ether lipids from *Botryococcus braunii* comprising an $\alpha$ -tocopherol unit

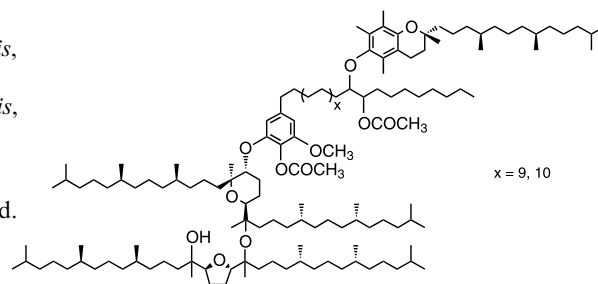
Tetrahedron Letters 43 (2002) 2377

Pierre Metzger<sup>a,\*</sup> and Marie-Noëlle Rager<sup>b,\*</sup>

<sup>a</sup>CNRS UMR 7573, Ecole Nationale Supérieure de Chimie de Paris, 11 Rue P. et M. Curie, 75231 Paris cedex 05, France

<sup>b</sup>CNRS UMR 7576, Ecole Nationale Supérieure de Chimie de Paris, 11 Rue P. et M. Curie, 75231 Paris cedex 05, France

Two ether lipids, C<sub>151</sub> and C<sub>153</sub> lycopanerols H, were isolated from the alga *Botryococcus braunii* and their structures determined.

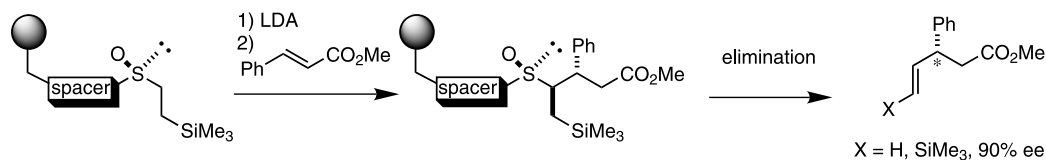


## Asymmetric conjugate addition reactions of polymer-supported highly enantioenriched $\beta$ -(trimethylsilyl)ethyl sulfoxides

Tetrahedron Letters 43 (2002) 2381

Shuichi Nakamura, Youhei Uchiyama, Satoshi Ishikawa, Ryuta Fukinbara, Yoshihiko Watanabe and Takeshi Toru\*

Department of Applied Chemistry, Nagoya Institute of Technology, Gokiso, Showa-ku, Nagoya 466-8555, Japan

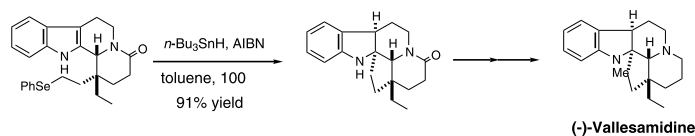


## Total synthesis of (–)-vallesamidine

Tetrahedron Letters 43 (2002) 2385

Hideo Tanino, Kazuhisa Fukuishi, Mina Ushiyama and Kunisuke Okada\*

Faculty of Pharmacy, Meijo University, Tenpaku, Nagoya 468-8503, Japan



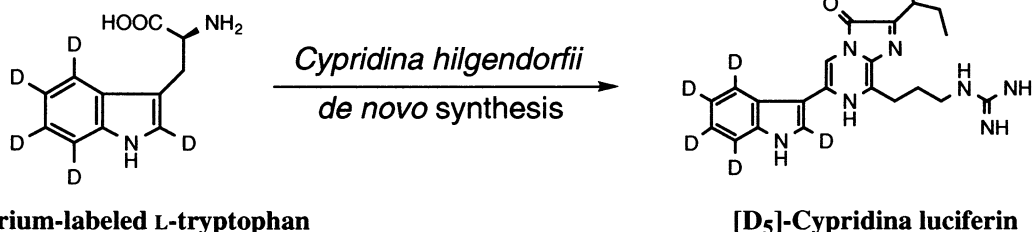
## Biosynthesis of luciferin in the sea firefly, *Cypridina hilgendorffii*: L-tryptophan is a component in *Cypridina* luciferin

Tetrahedron Letters 43 (2002) 2389

Yuichi Oba,<sup>a,\*</sup> Shin-ichi Kato,<sup>a</sup> Makoto Ojika<sup>a</sup> and Satoshi Inouye<sup>b</sup>

<sup>a</sup>Graduate School of Bioagricultural Sciences, Nagoya University, Chikusa-ku, Nagoya 464-8601, Japan

<sup>b</sup>Yokohama Research Center, Chisso Co., 5-1 Okawa, Kanazawa-ku, Yokohama 236-8605, Japan

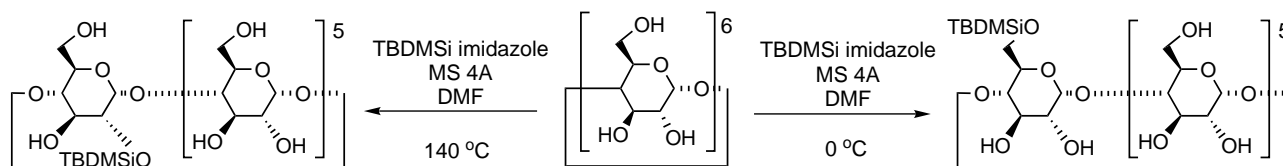


## Regioselective silylation of C-2 hydroxyl group of $\alpha$ -cyclodextrin dependent on reaction temperature

Tetrahedron Letters 43 (2002) 2393

Katsunori Teranishi\* and Fumiko Ueno

Faculty of Bioresources, Mie University, 1515 Kamihama, Tsu, Mie 514-8507, Japan

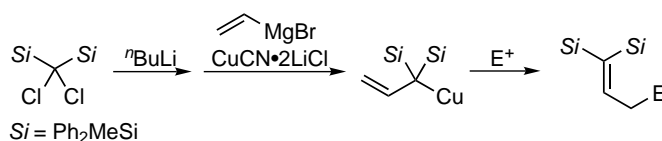


## Generation and regioselective reactions of $\alpha,\alpha$ -bis(silyl)-substituted allylcopper reagents—synthesis of 1,1-disilylalkenes

Tetrahedron Letters 43 (2002) 2399

Junichi Kondo, Atsushi Inoue, Hiroshi Shinokubo and Koichiro Oshima\*

Department of Material Chemistry, Graduate School of Engineering, Kyoto University, Sakyo-ku, Kyoto 606-8501, Japan

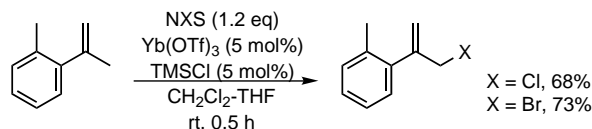


## An intriguing effect of $\text{Yb}(\text{OTf})_3$ -TMSCl in the halogenation of 1,1-disubstituted alkenes by NXS: selective synthesis of allyl halides

*Tetrahedron Letters* 43 (2002) 2403

Masamichi Yamanaka, Mitsuhiro Arisawa, Atsushi Nishida and Masako Nakagawa\*

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



## Synthesis of huperzine intermediates via Mn(III)-mediated radical cyclization

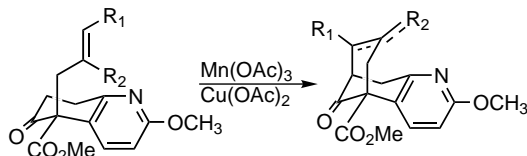
*Tetrahedron Letters* 43 (2002) 2407

Ihl Young Choi Lee,<sup>a,\*</sup> Myung Hee Jung,<sup>a</sup> Hyo Won Lee<sup>b</sup> and Joon Youn Yang<sup>b</sup>

<sup>a</sup>Korea Research Institute of Chemical Technology, Taejon 305-600, South Korea

<sup>b</sup>Department of Chemistry, Chungbuk National University, Cheongju, Chungbuk 361-763, South Korea

Key intermediates of huperzine were obtained via Mn(III)-mediated oxidative radical cyclization of allylic derivatives from 6-oxotetrahydroquinoline carboxylic esters to the corresponding bicyclic compounds.



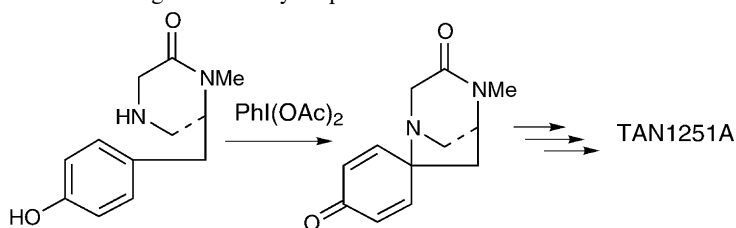
## Facile synthesis of enantiopure (-)-TAN1251A

*Tetrahedron Letters* 43 (2002) 2411

Hirotake Mizutani, Jun Takayama, Yukio Soeda and Toshio Honda\*

Faculty of Pharmaceutical Sciences, Hoshi University, Ebara 2-4-41, Shinagawa, Tokyo 142-8501, Japan

Formal total synthesis of (-)-TAN1251A was achieved via a carbon–nitrogen bond formation by the use of aromatic oxidation with hypervalent iodine reagent as a key step.



## Structure and antiviral properties of macrocaesalmin, a novel cassane furanoditerpenoid lactone from the seeds of *Caesalpinia minax* Hance

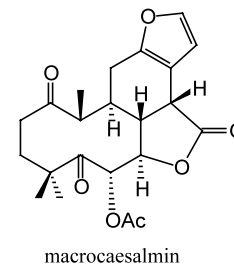
*Tetrahedron Letters* 43 (2002) 2415

Ren-Wang Jiang,<sup>a</sup> Paul Pui-Hay But,<sup>b</sup> Shuang-Cheng Ma,<sup>b</sup> Wen-Cai Ye,<sup>c</sup> Siu-Pang Chan<sup>a</sup> and Thomas C. W. Mak<sup>a,\*</sup>

<sup>a</sup>Department of Chemistry, The Chinese University of Hong Kong, Shatin, New Territories, Hong Kong SAR, PR China

<sup>b</sup>Department of Biology and Institute of Chinese Medicine, The Chinese University of Hong Kong, Shatin, New Territories, Hong Kong SAR, PR China

<sup>c</sup>Department of Phytochemistry, China Pharmaceutical University, Nanjing 210009, PR China



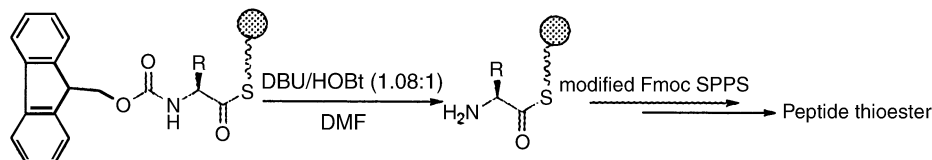
A novel cassane-type furanoditerpenoid lactone, named macrocaesalmin, possessing a ten-membered macrocyclic 1,5-diketone ring and an unprecedented *cis* B/D ring fusion mode, has been isolated from the seeds of *Caesalpinia minax* Hance.

## An improved deblocking agent for direct Fmoc solid-phase synthesis of peptide thioesters

Tetrahedron Letters 43 (2002) 2419

Xianzhang Bu, Guiyang Xie, Chi Wang Law and Zhihong Guo\*

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



## Full enzymatic synthesis of a precursor of bioactive pentapeptide OGP(10-14) in organic solvents

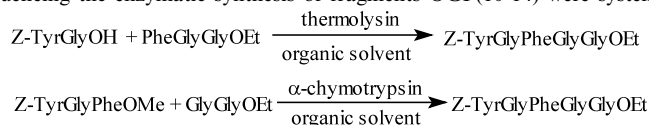
Tetrahedron Letters 43 (2002) 2423

Ping Liu,<sup>a</sup> Gui-ling Tian,<sup>a</sup> Kin-Sing Lee,<sup>b</sup> Man-Sau Wong<sup>b</sup> and Yun-hua Ye<sup>a,\*</sup>

<sup>a</sup>The Key Laboratory of Bioorganic Chemistry and Molecular Engineering, Ministry of Education, Department of Chemistry, Peking University, Beijing 100871 China

<sup>b</sup>Open Laboratory of Chirrotechnology and Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Kowloon, Hong Kong, China

Full enzymatic synthesis of a fragment of osteogenic growth peptide [OGP(10-14)] was achieved using proteases in organic solvents for the first time. The factors influencing the enzymatic synthesis of fragments OGP(10-14) were systematically studied.

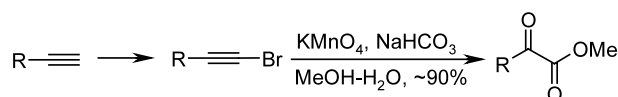


## An efficient method for synthesis of $\alpha$ -keto acid esters from terminal alkynes

Tetrahedron Letters 43 (2002) 2427

Lian-Sheng Li and Yu-Lin Wu\*

State Key Laboratory of Bio-organic & Natural Products Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Road, Shanghai 200032, China



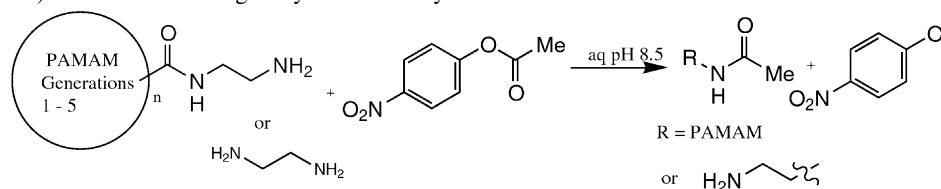
## The effect of size on the rate of an aminolysis reaction using a series of amine terminated PAMAM dendrimers

Tetrahedron Letters 43 (2002) 2431

John L. Burnett, Amy S. H. King, Ian K. Martin and Lance J. Twyman\*

Chemistry Department, Dainton Building, University of Sheffield, Sheffield S3 7HF, UK

When compared to an equivalent amine concentration of ethylenediamine, the initial rate of a simple aminolysis reaction in water (at pH 8.5) was found to be greatly enhanced by the use of amine terminated PAMAM dendrimers.

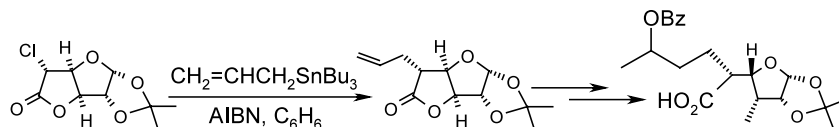


## A stereoselective synthesis of the C13–C19 fragment of sanglifehrin A

*Tetrahedron Letters* 43 (2002) 2435

Mukund K. Gurjar\* and Siddhartha Ray Chaudhuri

National Chemical Laboratory, Pune 411008, India

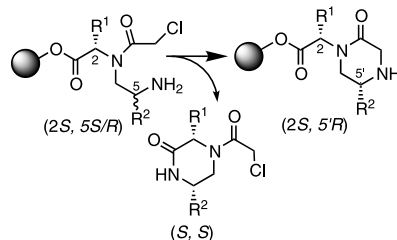


## Synthesis of diastereomerically pure 1,4,5-substituted-2-oxopiperazines on solid phase

*Tetrahedron Letters* 43 (2002) 2439

Nawaz M. Khan, Montserrat Cano and Shankar Balasubramanian\*

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

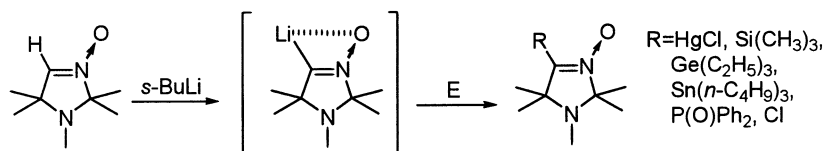


## A route to the synthesis of previously unknown $\alpha$ -heteroatom substituted nitrones

*Tetrahedron Letters* 43 (2002) 2445

Maxim A. Voinov\* and Igor A. Grigor'ev

Novosibirsk Institute of Organic Chemistry, Ave. akad. Lavrent'eva 9, 630090, Novosibirsk, Russia

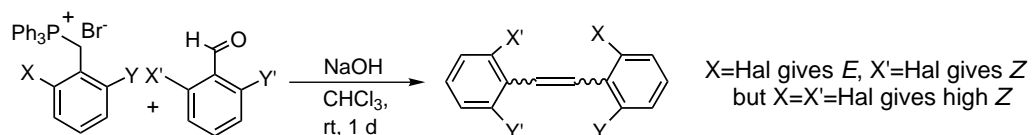


## Co-operative *ortho*-effects on the Wittig reaction. Interpretation of stereoselectivity in the reaction of *ortho*-halo-substituted benzaldehydes and benzyldenetriphenylphosphoranes

*Tetrahedron Letters* 43 (2002) 2449

Eoin C. Dunne, Éamonn J. Coyne, Peter B. Crowley and Declan G. Gilheany\*

Chemistry Department, Conway Institute of Biomolecular and Biomedical Sciences, University College Dublin, Belfield, Dublin 4, Ireland



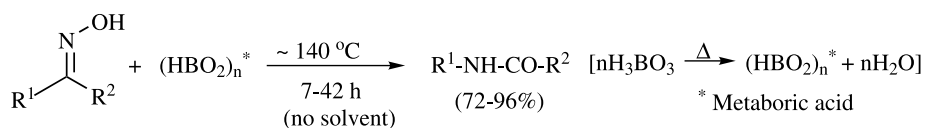


## Beckmann rearrangement of ketoximes on solid metaboric acid: a simple and effective procedure

*Tetrahedron Letters* 43 (2002) 2455

Sosale Chandrasekhar\* and Kovuru Gopalaiiah

*Department of Organic Chemistry, Indian Institute of Science, Bangalore 560 012, India*

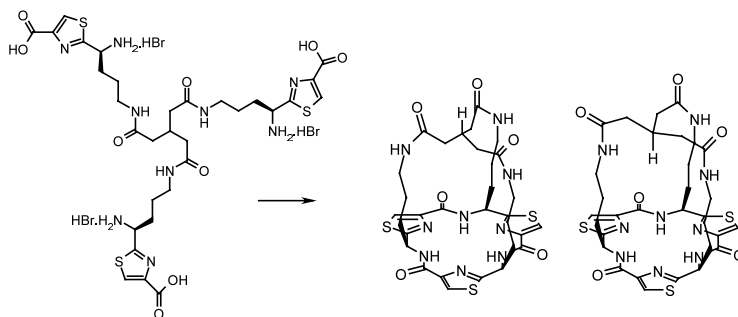


## The controlled assembly of modified cyclopeptide cages via scaffolded cyclooligomerisations

*Tetrahedron Letters* 43 (2002) 2459

Gerald Pattenden\* and Toby Thompson

*School of Chemistry, The University of Nottingham, University Park, Nottingham NG7 2RD, UK*



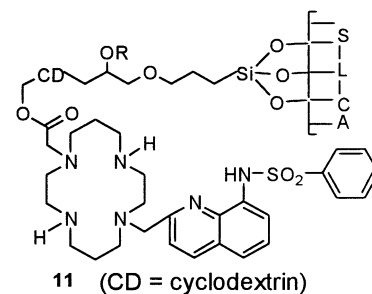
## Synthesis of cyclam-capped $\beta$ -cyclodextrin-bonded silica particles for use as chiral stationary phases in capillary electrochromatography

*Tetrahedron Letters* 43 (2002) 2463

Yinhan Gong,<sup>a</sup> Guoping Xue,<sup>b</sup> Yanqiao Xiang,<sup>b</sup> Jerald S. Bradshaw,<sup>b</sup> Milton L. Lee<sup>b</sup> and Hian Kee Lee<sup>a,\*</sup>

<sup>a</sup>*Department of Chemistry, National University of Singapore, 3 Science Drive 3, Singapore 117543*

<sup>b</sup>*Department of Chemistry and Biochemistry, Brigham Young University, Provo, UT 84602-5700, USA*

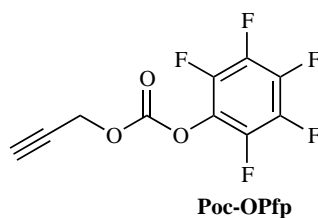


## Synthesis and applications of propargyl pentafluorophenyl carbonate for peptide synthesis

*Tetrahedron Letters* 43 (2002) 2467

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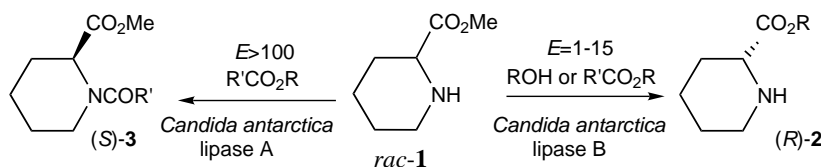


## Enantioselective lipase-catalyzed reactions of methyl pipecolinate: transesterification and *N*-acylation

*Tetrahedron Letters* 43 (2002) 2471

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## Rapid synthesis of high-loading resins using triple branched protected monomer for dendrimer synthesis

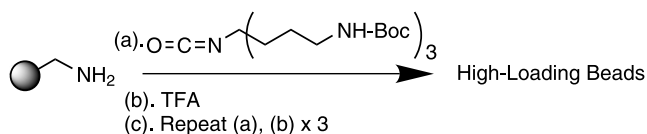
*Tetrahedron Letters* 43 (2002) 2475

Sylvain Lebreton,<sup>a</sup> Nicholas Newcombe<sup>b</sup> and Mark Bradley<sup>a,\*</sup>

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Resins with loading up to 96 nmol/ bead were prepared by solid-phase dendrimerisation using a symmetrical 1→3 C-branched isocyanate monomer.



## A novel 1→3 C-branched isocyanate monomer for resin amplification—a pseudo PS-PEG high-loading resin

*Tetrahedron Letters* 43 (2002) 2479

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