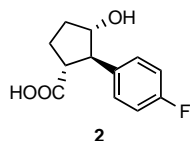


**Expedient synthesis of tri-substituted cyclopentane derivatives***Tetrahedron Letters 43 (2002) 4569*

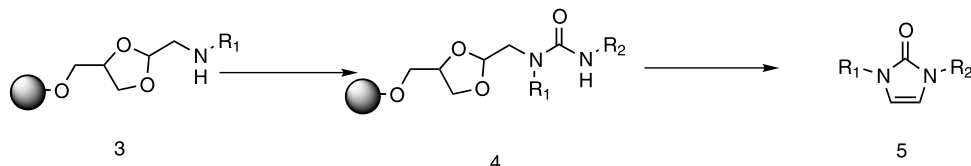
Ranjit C. Desai,\* Peter Cicala, Laura C. Meurer and Paul E. Finke

*Department of Medicinal Chemistry, Merck Research Laboratories, P.O. Box 2000, Rahway, NJ 07065, USA*

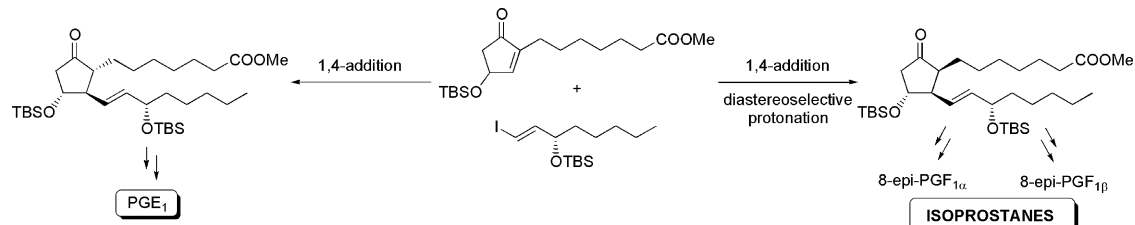
An efficient preparation of the cyclopentane scaffold having three contiguous chiral centers is described.

**A traceless solid-phase synthesis of 2-imidazolones***Tetrahedron Letters 43 (2002) 4571*

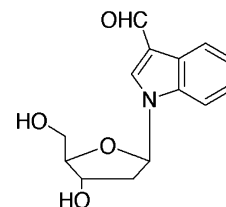
Jie-Fei Cheng,\* Christopher Kaiho, Mi Chen, Thomas Arrhenius and Alex Nadzan

*Department of Chemistry, Chugai Pharma USA, LLC, 6275 Nancy Ridge Dr., San Diego, CA 92121, USA*Resin-bound acetal amines (**3**) that are formed via amination of the bromide precursor are reacted with isocyanates to give the urea acetals (**4**), which upon treatment with TFA afford 2-imidazolones (**5**) in good yield and purity.**Total synthesis of isoprostanes via the two-component coupling process***Tetrahedron Letters 43 (2002) 4575*

Ana R. Rodríguez and Bernd W. Spur\*

*Department of Cell Biology, University of Medicine and Dentistry of New Jersey, SOM, Stratford, NJ 08084, USA***A facile incorporation of the aldehyde function into DNA: 3-formylindole nucleoside as an aldehyde-containing universal nucleoside***Tetrahedron Letters 43 (2002) 4581*

Akimitsu Okamoto, Kazuki Tainaka and Isao Saito\*

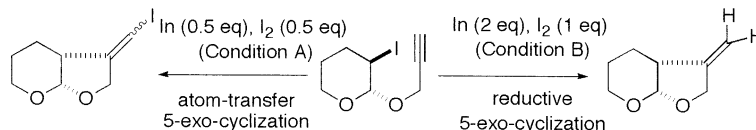
*Department of Synthetic Chemistry and Biological Chemistry, Faculty of Engineering, Kyoto University, CREST, Japan Science and Technology Corporation, Kyoto 606-8501, Japan*

## Indium-mediated atom-transfer cyclizations and reductive cyclizations

Tetrahedron Letters 43 (2002) 4585

Reiko Yanada,\* Nobuaki Nishimori, Akira Matsumura, Nobutaka Fujii and Yoshiji Takemoto  
Graduate School of Pharmaceutical Sciences, Kyoto University, Yoshida, Sakyo-ku, Kyoto 606-8501, Japan

Novel indium-mediated atom-transfer 5-*exo*-cyclization and reductive 5-*exo*-cyclization reaction is described.



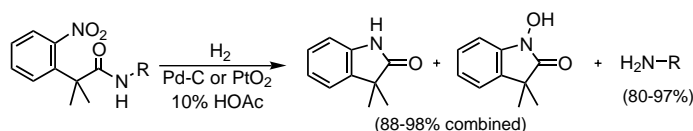
## 2,2-Dimethyl-2-(*o*-nitrophenyl)acetyl (DMNA) as an assisted cleavage protecting group for amines

Tetrahedron Letters 43 (2002) 4589

Yongying Jiang, Jun Zhao and Longqin Hu\*

Department of Pharmaceutical Chemistry, Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA

DMNA as an amino protecting group for several amino acids and dipeptides was efficiently removed in a one-step process using hydrogenation in the presence of Pd-C or PtO<sub>2</sub> catalyst and 10% HOAc in MeOH.



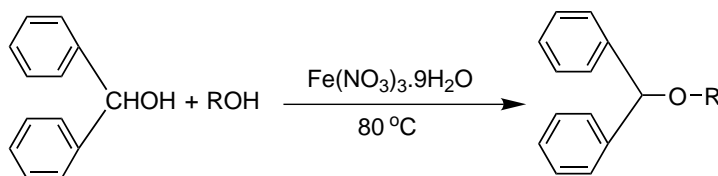
## Iron-catalyzed solvent-free conversion of alcohols and phenols into diphenylmethyl (DPM) ethers

Tetrahedron Letters 43 (2002) 4593

Vasudevan V. Namboodiri and Rajender S. Varma\*

Clean Processes Branch, National Risk Management Research Laboratory, US Environmental Protection Agency, MS 443, 26 W. Martin Luther King Drive, Cincinnati, OH 45268, USA

Solvent-free preparation of diphenylmethyl (DPM) ethers of alcohols and phenols is described in the presence of a catalytic amount of iron salts.



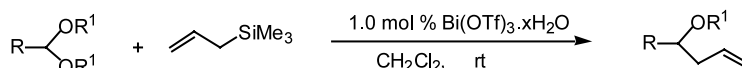
## Bismuth triflate catalyzed allylation of acetals: a simple and mild method for synthesis of homoallyl ethers

Tetrahedron Letters 43 (2002) 4597

Laura C. Wieland, Herbert M. Zerth and Ram S. Mohan\*

Department of Chemistry, Illinois Wesleyan University, Bloomington, IL 61701, USA

The allylation of acetals using allyltrimethylsilane is efficiently catalyzed by bismuth triflate (1.0 mol%). The reaction proceeds smoothly at room temperature to afford the corresponding homoallyl ether in good yield. The mild reaction conditions, the low toxicity of bismuth salts, and the high catalytic efficiency of the system make this procedure particularly attractive for large-scale synthesis.

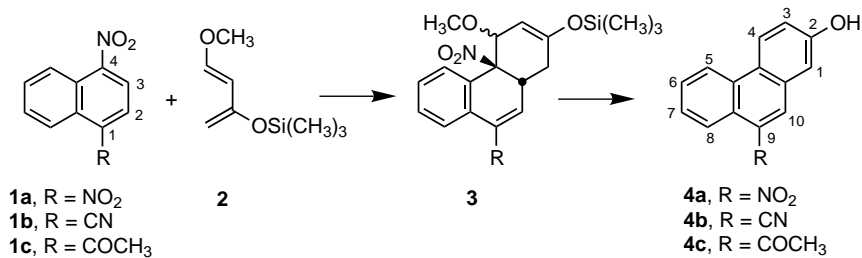


## One-step synthesis of 2,9-disubstituted phenanthrenes via Diels–Alder reactions using 1,4-disubstituted naphthalenes as dienophiles

*Tetrahedron Letters* 43 (2002) 4601

Elisa Paredes, Betina Biolatto, María Kneeteman and Pedro Mancini\*

Area de Química Orgánica, Departamento de Química, Facultad de Ingeniería Química, Universidad Nacional del Litoral, Santiago del Estero 2829, 3000 Santa Fe, Argentina



## Covilanone: a new rearranged labdane type diterpene

*Tetrahedron Letters* 43 (2002) 4605

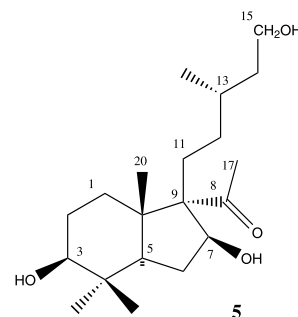
J. M. L. Rodilla,<sup>a,\*</sup> M. I. Ismael,<sup>a</sup> L. A. Silva,<sup>a</sup> J. P. Cesário Serrano,<sup>a</sup> J. G. Urones<sup>b</sup> and F. Sanz<sup>c</sup>

<sup>a</sup>Departamento de Química, Universidade da Beira Interior, 6200 Covilhã, Portugal

<sup>b</sup>Departamento de Química Orgánica, Facultad de Ciencias Químicas, Universidad de Salamanca, Plaza de los Caídos 1–5, 37008 Salamanca, Spain

<sup>c</sup>Servicio de Difracción de Rayos X, Universidad de Salamanca, 37008 Salamanca, Spain

A bicyclic diterpene triol, **5**, with a new rearranged labdane carbon skeleton was isolated from the aerial parts of *Halimium viscosum* (S. João da Pesqueira). Its structure was established by FAB MS and two-dimensional NMR experiments and its stereochemistry by NOE and X-ray study.



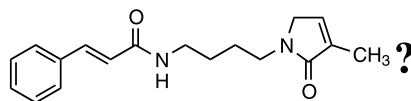
## Aglairubine—discrepancies during the course of structure elucidation

*Tetrahedron Letters* 43 (2002) 4609

Richard Detterbeck and Manfred Hesse\*

Organisch-chemisches Institut der Universität Zürich, Winterthurerstrasse 190, CH-8057 Zürich, Switzerland

A short synthesis of the originally proposed structure for the putrescine alkaloid aglairubine is presented as well as for a conceivable structure alternative. Due to the ascertained mismatch of spectroscopical data for synthetic and natural compounds, the published aglairubine structure has to be revised.



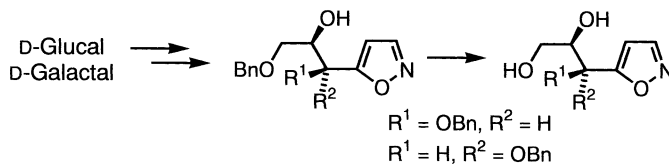
## Glycol-mediated synthesis of enantiomerically pure 5-substituted isoxazoles containing a differentially *O*-benzylated glycerol moiety

*Tetrahedron Letters* 43 (2002) 4613

Hans-Georg Weinig, Pietro Passacantilli,\* Marcello Colapietro and Giovanni Piancatelli\*

Dipartimento di Chimica Università 'La Sapienza' and Istituto di Chimica Biomolecolare, Sezione di Roma, Piazzale Aldo Moro 5, 00185 Roma, Italy

Novel 5-substituted chiral isoxazoles bearing a glycerol moiety in the side chain have been prepared starting from D-glucal and D-galactal, respectively.

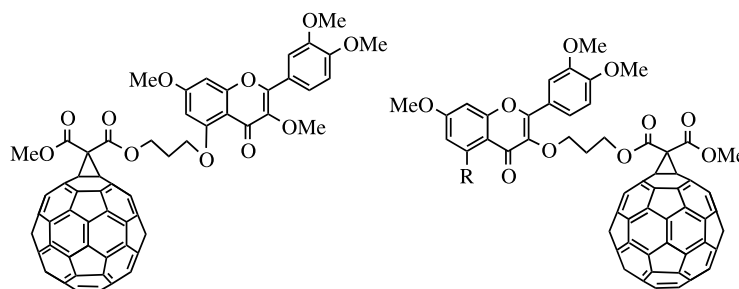


## Synthesis of [60]fullerene–quercetin dyads

Tetrahedron Letters 43 (2002) 4617

Maria D. L. de la Torre, Augusto C. Tomé,\* Artur M. S. Silva  
and José A. S. Cavaleiro

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



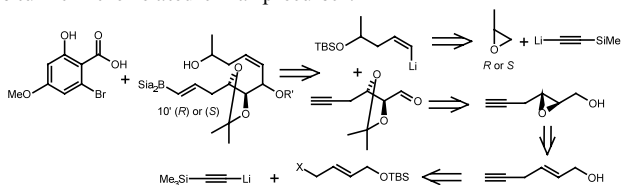
## Convergent stereospecific synthesis of C292 (or LL-Z1640-2), and hypothemycin. Part 1

Tetrahedron Letters 43 (2002) 4621

Patrice Sellès and Robert Lett\*

Unité Mixte CNRS-AVENTIS Pharma (UMR 26) 102, route de Noisy, 93235 Romainville, France

Stereospecific synthesis of the precursors required for the 14-membered ring formation either via an intramolecular Suzuki coupling or via an intermolecular Suzuki coupling followed by a macrolactonisation. One-pot Suzuki couplings were here achieved with vinyldisiamylboranes generated in situ from the related chiral precursor.



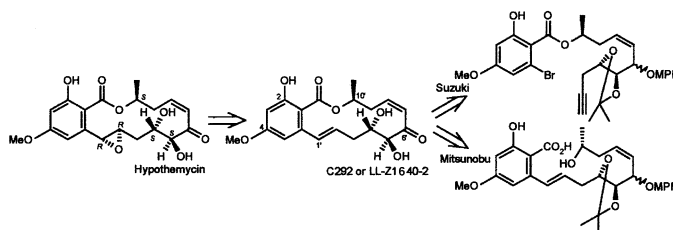
## Convergent stereospecific synthesis of LL-Z1640-2 (or C292), hypothemycin and related macrolides. Part 2

Tetrahedron Letters 43 (2002) 4627

Patrice Sellès and Robert Lett\*

Unité Mixte CNRS-AVENTIS Pharma (UMR 26) 102, route de Noisy, 93235 Romainville, France

The total synthesis of the resorcylic macrolides C292 (or LL-Z1640-2) and hypothemycin is reported. The 14-membered ring formation has been achieved either via an intramolecular Suzuki coupling or much more efficiently via a Mitsunobu macrolactonisation. Reaction conditions had to be found to preserve the  $Z_{7,8}$  enone; a highly selective epoxidation afforded hypothemycin.



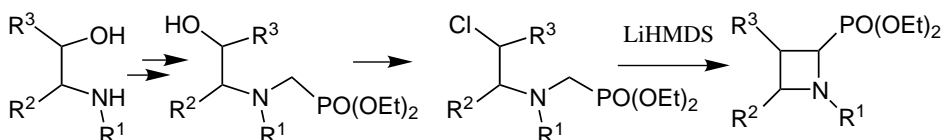
## An efficient asymmetric synthesis of azetidine 2-phosphonic acids

Tetrahedron Letters 43 (2002) 4633

Claude Agami,<sup>b</sup> François Couty<sup>a,\*</sup> and Nicolas Rabasso<sup>b</sup>

<sup>a</sup>SIRCOB, UPRESA CNRS 8086, Université de Versailles, 45, avenue des Etats-Unis, 78035 Versailles Cédex, France

<sup>b</sup>Laboratoire de Synthèse Asymétrique, UMR 7611, Université Pierre et Marie Curie, 4 place Jussieu, 75005 Paris, France



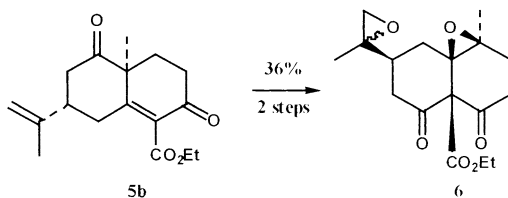
## From eudesmanes to eudesmanes: rearrangement of a cyperone derivative with introduction of oxygenated substituents at C-10 and C-4

*Tetrahedron Letters* 43 (2002) 4637

Josiane Beauhaire and Paul-Henri Ducrot\*

*Unité de Phytopharmacie et Médiateurs Chimiques, Inra, Route de Saint-Cyr, F-78026 Versailles, France*

Transformation of cyperone derivative **5b** in diketo epoxide **6**, a potential intermediate for agarofuran sesquiterpenes syntheses, is described in two steps and 36% yield.

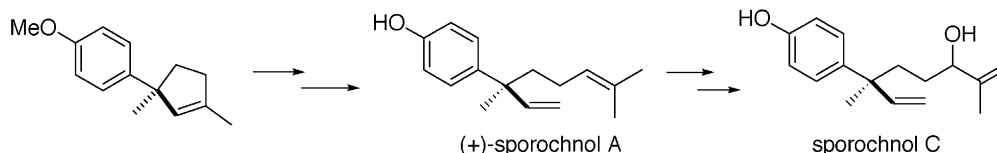


## Total synthesis of sporochinols, fish deterrents from a marine alga

*Tetrahedron Letters* 43 (2002) 4641

Susumu Ohira,\* Atsuhito Kuboki, Taisuke Hasegawa, Takato Kikuchi, Tatsuhiko Kutsukake and Maki Nomura

*Department of Biological Chemistry, Faculty of Science, Okayama University of Science, 1-1 Ridai-cho, Okayama 700-0005, Japan*



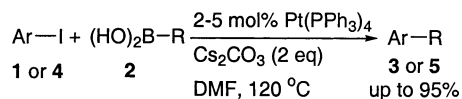
## Platinum-catalyzed cross-couplings of organoboronic acids with aryl iodides

*Tetrahedron Letters* 43 (2002) 4645

Chang Ho Oh,\* Young Mook Lim and Choong Ho You

*Department of Chemistry, Hanyang University, Sungdong-Gu, Seoul 133-791, South Korea*

Tetrakis(triphenylphosphine)platinum in DMF has been used as a mild catalyst for chemoselective cross-couplings of organoboronic acids with aryl iodides in the presence of the bromide functionality.



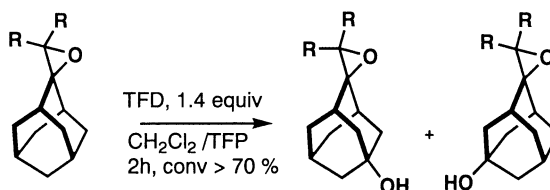
## Chemo- and regioselective oxidation of adamantyl derivatives by dioxiranes

*Tetrahedron Letters* 43 (2002) 4649

Lucia D'Accolti,<sup>a,b</sup> Ping Kang,<sup>a</sup> Saeed Khan,<sup>a</sup> Ruggero Curci<sup>b</sup> and Christopher S. Foote<sup>a,\*</sup>

<sup>a</sup>*Department of Chemistry and Biochemistry, University of California, Los Angeles, CA 90095, USA*

<sup>b</sup>*Dipartimento di Chimica, Università di Bari, via Amendola 173, I-70126 Bari, Italy*



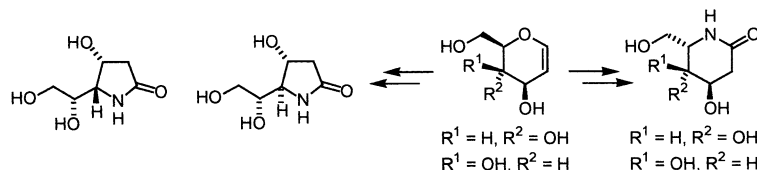
## Glycal-mediated syntheses of enantiomerically pure polyhydroxylated $\gamma$ - and $\delta$ -lactams

*Tetrahedron Letters* 43 (2002) 4653

Antonella Squarcia, Fabrizio Vivolo, Hans-Georg Weinig, Pietro Passacantilli\* and Giovanni Piancatelli\*

*Dipartimento di Chimica, Università 'La Sapienza' and Centro CNR di Studio per la Chimica delle Sostanze Organiche Naturali, Piazzale Aldo Moro 5, I-00185 Roma, Italy*

Syntheses of four new  $\gamma$ - and  $\delta$ -lactams starting from D-glucal and D-galactal, respectively, are described.



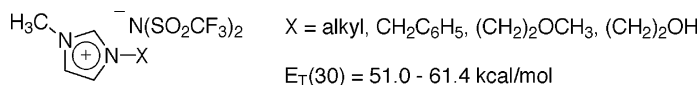
## Expanding the polarity range of ionic liquids

*Tetrahedron Letters* 43 (2002) 4657

Sergei V. Dzyuba and Richard A. Bartsch\*

*Department of Chemistry and Biochemistry, Texas Tech University, Box 41061, Lubbock, TX 79409-1061, USA*

Polarity of ionic liquids can be changed markedly by the introduction of functional group-containing substituents.

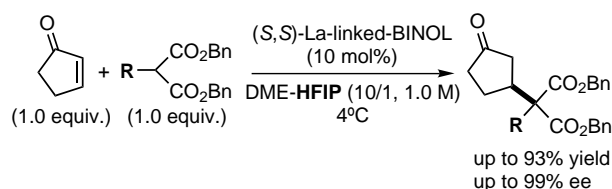


## Highly enantioselective catalytic Michael reaction of $\alpha$ -substituted malonates using La-linked-BINOL complex in the presence of HFIP (1,1,1,3,3,3-hexafluoroisopropanol)

*Tetrahedron Letters* 43 (2002) 4661

Ryo Takita, Takashi Ohshima and Masakatsu Shibasaki\*

*Graduate School of Pharmaceutical Sciences, The University of Tokyo, Hongo, Bunkyo-ku, Tokyo 113-0033, Japan*

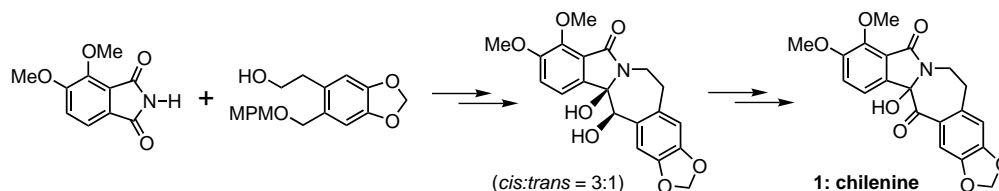


## A novel synthetic approach to isoindolobenzazepine alkaloid, chilenine, employing SmI<sub>2</sub>-mediated pinacolic coupling reaction

*Tetrahedron Letters* 43 (2002) 4667

Hidemi Yoda,\* Akira Nakahama, Tomomi Koketsu and Kunihiko Takabe

*Department of Molecular Science, Faculty of Engineering, Shizuoka University, Johoku 3-5-1, Hamamatsu 432-8561, Japan*

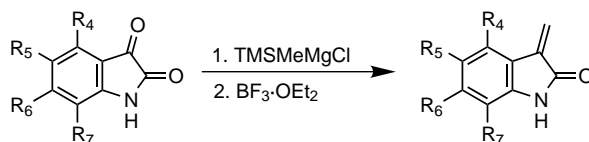


**A convenient synthesis of 3-methyleneoxindoles:  
cytotoxic metabolites of indole-3-acetic acids**

*Tetrahedron Letters* 43 (2002) 4671

Sharon Rossiter\*

*Gray Cancer Institute, PO Box 100, Mount Vernon Hospital, Northwood, Middlesex HA6 2JR, UK*



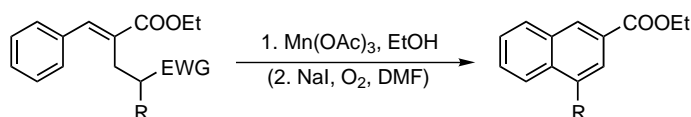
**Synthesis of 1,3-disubstituted naphthalenes from the Baylis–Hillman acetates with the aid of manganese(III) acetate**

*Tetrahedron Letters* 43 (2002) 4675

Yang Jin Im,<sup>a</sup> Ka Young Lee,<sup>a</sup> Taek Hyeon Kim<sup>b</sup> and Jae Nyoung Kim<sup>a,\*</sup>

<sup>a</sup>*Department of Chemistry and Institute of Basic Science, Chonnam National University, Kwangju 500-757, South Korea*

<sup>b</sup>*Faculty of Applied Chemistry, Chonnam National University, Kwangju 500-757, South Korea*

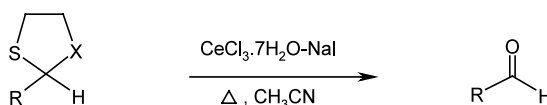


**CeCl<sub>3</sub>·7H<sub>2</sub>O-Promoted highly chemoselective hydrolysis of  
1,3-oxathio- and dithioacetals**

*Tetrahedron Letters* 43 (2002) 4679

J. S. Yadav,\* B. V. S. Reddy, S. Raghavendra and M. Satyanarayana

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

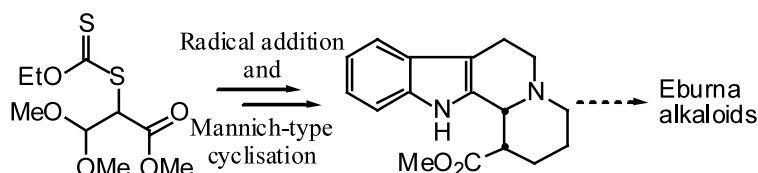


**Efficient construction of polycyclic alkaloid synthetic precursors  
by a xanthate free radical addition and Mannich cyclisation cascade**

*Tetrahedron Letters* 43 (2002) 4683

Edward W. Tate and Samir Z. Zard\*

*Laboratoire de Synthèse Organique associé au CNRS, Ecole Polytechnique, F-91128 Palaiseau, France*

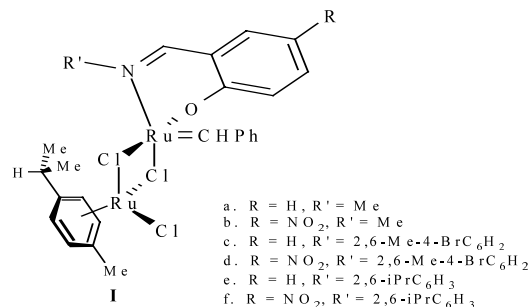


**Radical reactions catalysed by homobimetallic ruthenium(II) complexes bearing Schiff base ligands: atom transfer radical addition and controlled polymerisation**

Bob De Clercq and Francis Verpoort\*

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

*Tetrahedron Letters* 43 (2002) 4687



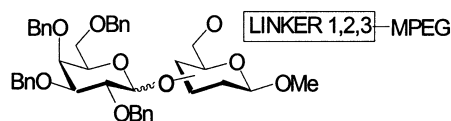
**Demixing libraries of saccharides using a multi-linker approach in combination with a soluble polymeric support**

Galal A. Elsayed, Tong Zhu and Geert-Jan Boons\*

Complex Carbohydrate Research Center, 220 Riverbend Road, Athens, GA 30602, USA

A new method for demixing libraries of compounds that are attached to a soluble polymeric support by tagging starting materials with selective cleavable linkers is described.

*Tetrahedron Letters* 43 (2002) 4691

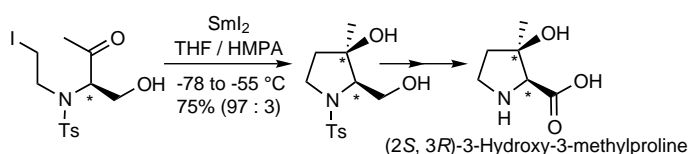


**Synthetic studies on polyoxypeptins: stereoselective synthesis of (2*S*,3*R*)-3-hydroxy-3-methylproline using SmI<sub>2</sub>-mediated cyclization**

Kazuishi Makino, Ai Kondoh and Yasumasa Hamada\*

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

*Tetrahedron Letters* 43 (2002) 4695

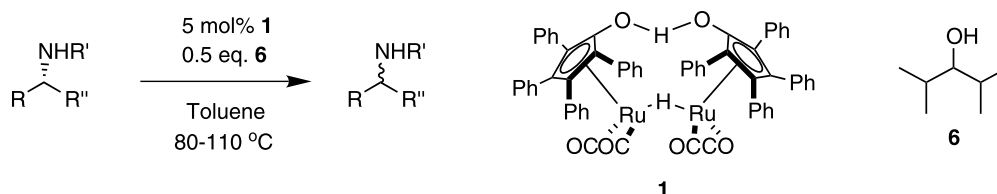


**An efficient and mild ruthenium-catalyzed racemization of amines: application to the synthesis of enantiomerically pure amines**

Oscar Pàmies, Alida H. Éll, Joseph S. M. Samec, Nina Hermanns and Jan-E. Bäckvall\*

Department of Organic Chemistry, Arrhenius Laboratory, Stockholm University, SE-10691 Stockholm, Sweden

*Tetrahedron Letters* 43 (2002) 4699





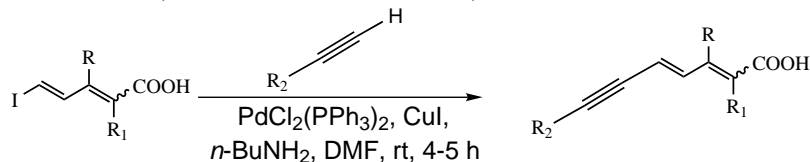
## Stereocontrolled synthesis of polyenoic acids by a Heck–Sonogashira reaction: easy access to 9,10-didehydro retinoic acids

*Tetrahedron Letters* 43 (2002) 4703

Mohamed Abarbri,<sup>a</sup> Jérôme Thibonnet,<sup>a</sup> Jean-Luc Parrain<sup>b</sup> and Alain Duchêne<sup>a,\*</sup>

<sup>a</sup>Laboratoire de Physicochimie des Interfaces et des Milieux Réactionnels, Faculté des Sciences de Tours, Parc de Grandmont, F-37200 Tours, France

<sup>b</sup>Laboratoire de Synthèse Organique UMR 6009 CNRS, Case postale D12, Faculté des Sciences de Saint Jérôme, Avenue Escadrille Normandie-Niemen, F-13397 Marseille Cedex 20, France



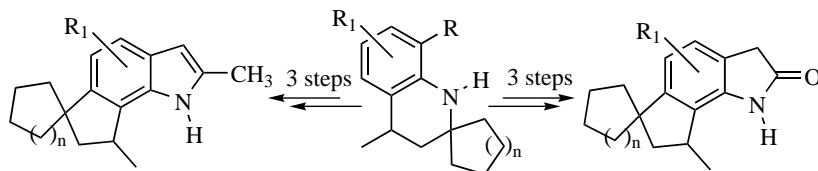
## A simple synthesis of spiro-C<sub>6</sub>-annulated hydrocyclopenta[g]indole derivatives

*Tetrahedron Letters* 43 (2002) 4707

Vladimir Kouznetsov,<sup>a,\*</sup> Fedor Zubkov,<sup>b</sup> Alirio Palma<sup>a</sup> and Guillermo Restrepo<sup>a</sup>

<sup>a</sup>Laboratory of Fine Organic Synthesis, Research Center for Biomolecules, School of Chemistry, Industrial University of Santander, A.A. 678, Bucaramanga, Colombia

<sup>b</sup>Department of Organic Chemistry, Russian Peoples Friendship University, Moscow 117923, Russia



## An efficient approach to bridged-bicyclic rings via intramolecular diazo ketone insertion

*Tetrahedron Letters* 43 (2002) 4711

Lei Chen, Xuqing Zhang\* and Arthur Schultz

Department of Chemistry, Rensselaer Polytechnic Institute, Troy, NY 12180, USA

