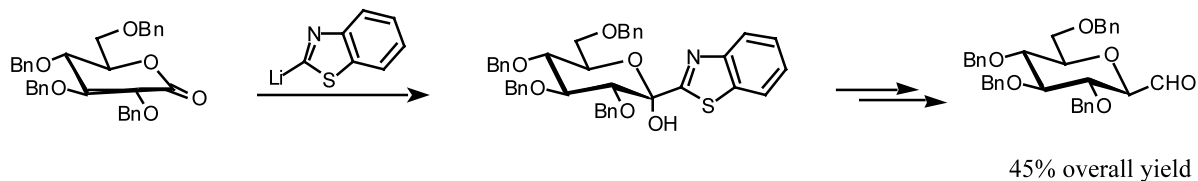


### Multigram scale synthesis of formyl tetra-*O*-benzyl- $\beta$ -D-C-glucopyranoside using benzothiazole as a formyl group equivalent

*Tetrahedron Letters 44 (2003) 13*

Alessandro Dondoni\* and Alberto Marra\*

*Dipartimento di Chimica, Laboratorio di Chimica Organica, Università di Ferrara, Via L. Borsari 46, I-44100 Ferrara, Italy*

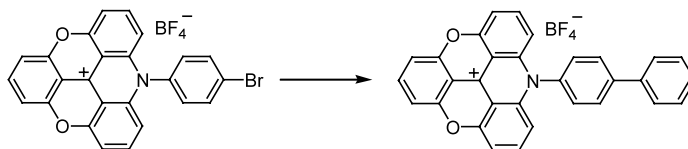


### On the synthesis and functionalisation of the 4-aza-8,12-dioxo-4,8,12c-tetrahydrodibenzo[*cd,mn*]pyrenium system

*Tetrahedron Letters 44 (2003) 17*

Frederik C. Krebs\*

*The Danish Polymer Centre, RISØ National Laboratory, PO Box 49, DK-4000 Roskilde, Denmark*



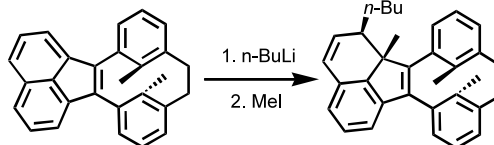
### Formation of an aromatic indenide anion in a bridge-annulated [2.2]metacyclophanene: a novel and stereoselective nucleophilic addition to an acenaphthylene derivative

*Tetrahedron Letters 44 (2003) 23*

Pu Chen and Yee-Hing Lai\*

*Department of Chemistry, National University of Singapore, 3 Science Drive 3, Singapore 117543*

A novel nucleophilic and stereoselective addition was observed in the acenaphthylene moiety when an acenaphthylene-annulated metacyclophanene was treated with *n*-butyllithium. The driving force is to alleviate geometric strain in the metacyclophanene moiety via the formation of an aromatic indenide anion.

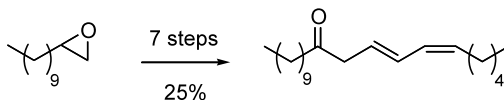


### Synthesis of 6*Z*,8*E*-heneicosadien-11-one, a sex pheromone of the painted apple moth, *Teia anartoides*

*Tetrahedron Letters 44 (2003) 27*
Jasmine C. Jury,<sup>a,b</sup> Simon Fielder<sup>a,\*</sup> and Markandu Vigneswaran<sup>a</sup>

<sup>a</sup>*The Horticulture and Food Research Institute of New Zealand Ltd., Private Bag 11030, Palmerston North, New Zealand*

<sup>b</sup>*The Research School of Chemistry, Australian National University, Canberra, ACT, Australia*

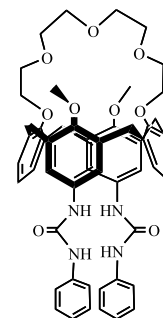


### Calix[4]arenes containing urea and crown/urea moieties: effects of the crown ether unit and Na<sup>+</sup> towards anion binding ability

Pan Tongraung, Nuanphun Chantarasiri and Thawatchai Tuntulani\*

Department of Chemistry, Faculty of Science, Chulalongkorn University, Bangkok 10330, Thailand

*Tetrahedron Letters* 44 (2003) 29

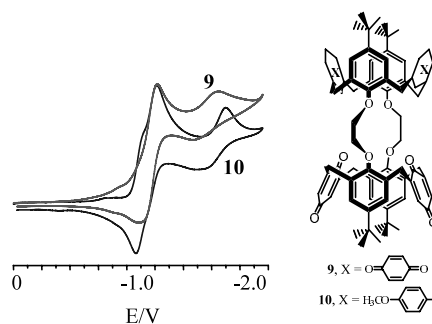


### Synthesis of redox-active biscalix[4]quinones and their electrochemical properties

Kriengkamol Tantrakarn, Chalita Ratanatawanate, Tipsukhon Pinsuk, Orawon Chailapakul and Thawatchai Tuntulani\*

Department of Chemistry, Faculty of Science, Chulalongkorn University, Bangkok 10330, Thailand

*Tetrahedron Letters* 44 (2003) 33



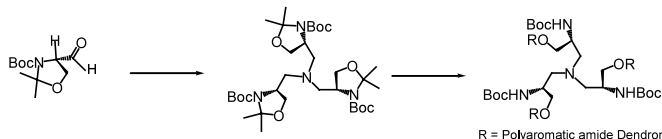
### Synthesis of a novel class of chiral polyaromatic amide dendrimers bearing an amino acid derived C<sub>3</sub>-symmetric core

Barbara Romagnoli, Laurence M. Harwood and Wayne Hayes\*

School of Chemistry, University of Reading, Whiteknights, Reading RG6 6AD, UK

*Tetrahedron Letters* 44 (2003) 37

A series of chiral polyaromatic amide dendrimers has been prepared which incorporates a C<sub>3</sub>-symmetric core derived from Garners' aldehyde.

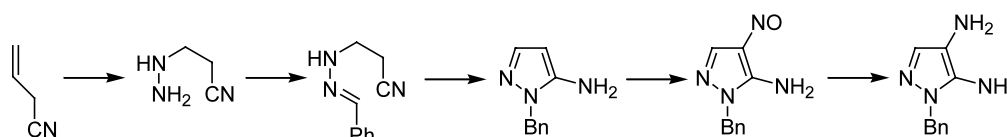


### Synthesis of 2-benzyl-2H-pyrazole-3,4-diamine dihydrochloride

Marcus H. Holschbach,\* Walter Wutz and Ray A. Olsson

Institut für Nuklearchemie, Forschungszentrum Jülich GmbH, D-52425 Jülich, Germany

*Tetrahedron Letters* 44 (2003) 41



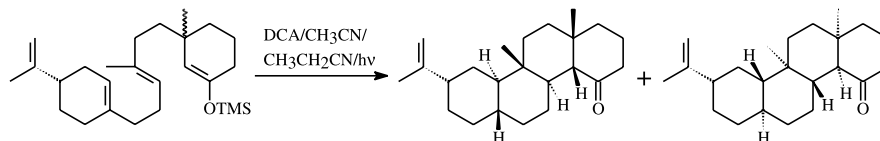
## Synthesis and PET oxidative cyclization of silyl enol ethers: build-up of quasi-steroidal carbocycles

*Tetrahedron Letters* 44 (2003) 45

Jens O. Bunte,<sup>a</sup> Stefanie Rinne,<sup>a</sup> Christian Schäfer,<sup>a</sup> Beate Neumann,<sup>b</sup> Hans-Georg Stammer<sup>b</sup> and Jochen Mattay<sup>a,\*</sup>

<sup>a</sup>*Organische Chemie I, Fakultät für Chemie, Universität Bielefeld, Postfach 100131, 33501 Bielefeld, Germany*

<sup>b</sup>*Anorganische Chemie III, Abteilung für Röntgenstrukturanalyse, Fakultät für Chemie, Universität Bielefeld, Postfach 100131, 33501 Bielefeld, Germany*



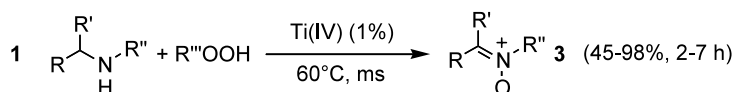
## A 'waterproof' catalyst for the oxidation of secondary amines to nitrones with alkyl hydroperoxides

*Tetrahedron Letters* 44 (2003) 49

Massimiliano Forcato,<sup>a</sup> William A. Nugent<sup>b</sup> and Giulia Licini<sup>a,\*</sup>

<sup>a</sup>*Università di Padova, Dipartimento di Chimica Organica, ITM del CNR, Sezione di Padova, via Marzolo 1, 35131 Padova, Italy*

<sup>b</sup>*Bristol-Myers Squibb Co., Process Research and Development Dept., PO Box 269, Deepwater, NJ 08023, USA*



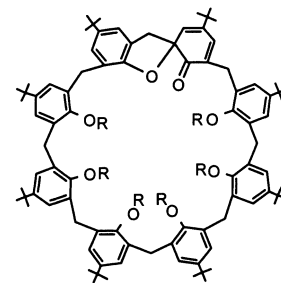
## Diester intrabridging of *p*-*tert*-butylcalix[8]arene and unexpected formation of the monospirodienone derivative

*Tetrahedron Letters* 44 (2003) 53

Grazia M. L. Consoli,<sup>a</sup> Corrada Geraci,<sup>a,\*</sup> Francesca Cunsolo<sup>a</sup> and Placido Neri<sup>b,\*</sup>

<sup>a</sup>*Istituto di Chimica Biomolecolare, Sezione di Catania, CNR, Via del Santuario 110, I-95028 Valverde (CT), Italy*

<sup>b</sup>*Dipartimento di Chimica, Università di Salerno, Via S. Allende 43, I-84081 Baronissi (SA), Italy*

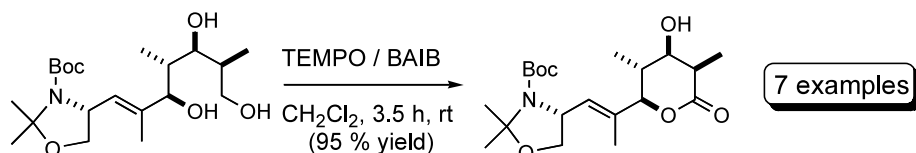


## Highly chemoselective oxidation of 1,5-diols to $\delta$ -lactones with TEMPO/BAIB

*Tetrahedron Letters* 44 (2003) 57

T. Matthew Hansen, Gordon J. Florence, Priscilla Lugo-Mas, Jiehao Chen, Jason N. Abrams and Craig J. Forsyth<sup>\*</sup>

*Department of Chemistry, University of Minnesota, 207 Pleasant Street SE, Minneapolis, MN 55455, USA*



7 examples

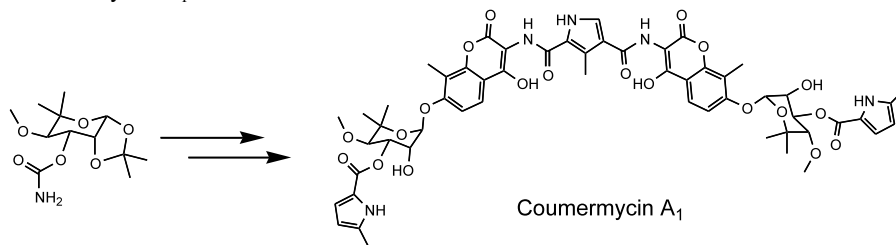
### Synthesis of coumermycin A<sub>1</sub>

*Tetrahedron Letters 44 (2003) 61*

Steven H. Olson\* and Llnon H. Slossberg

*Department of Medicinal Chemistry, Merck Research Laboratories, PO Box 2000, Rahway, NJ 07065, USA*

A concise synthesis of coumermycin A<sub>1</sub> was achieved.

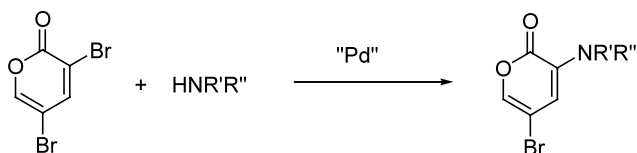


### Regioselective palladium-catalyzed aminations of 3,5-dibromo-2-pyrone with various aryl and alkyl amines

*Tetrahedron Letters 44 (2003) 65*

Jin-Hee Lee and Cheon-Gyu Cho\*

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



### Photocycloaddition of (Z)-1,2-dichloroethylene to enantiopure 2(5H)-furanones: an efficient strategy for the diastereoselective synthesis of cyclobutane and cyclobutene derivatives

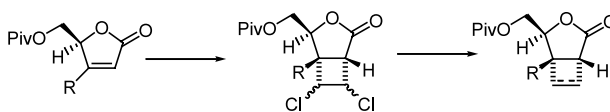
*Tetrahedron Letters 44 (2003) 69*

Ramon Alibés,<sup>a</sup> Pedro de March,<sup>a</sup> Marta Figueredo,<sup>a</sup> Josep Font,<sup>a,\*</sup> Marta Racamonde,<sup>a</sup> Albert Rustullet,<sup>a</sup> Angel Alvarez-Larena,<sup>b</sup> Juan F. Piniella<sup>b</sup> and Teodor Parella<sup>c</sup>

<sup>a</sup>*Departament de Química, Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain*

<sup>b</sup>*Unitat de Cristal·lografia, Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain*

<sup>c</sup>*Servei de Resonància Magnètica Nuclear, Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain*



### A three-step preparation of MAC reagents from malononitrile

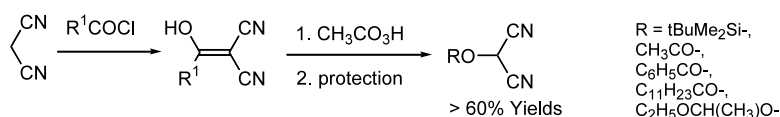
*Tetrahedron Letters 44 (2003) 73*

Hisao Nemoto,<sup>a,\*</sup> Xinming Li,<sup>b</sup> Rujian Ma,<sup>a</sup> Ichiro Suzuki<sup>a</sup> and Masayuki Shibuya<sup>a</sup>

<sup>a</sup>*Faculty of Pharmaceutical Sciences, The University of Tokushima, Sho-machi 1-78, Tokushima 770-8505, Japan*

<sup>b</sup>*Department of Chemistry, East China University of Science and Technology, Shanghai 200237, China*

Masked acyl cyanides, RO-CH(CN)<sub>2</sub>, were prepared from malononitrile in more than 60% yields in three steps.



### Indium-mediated one-pot reductive conversion of nitroarenes to *N*-arylacetamides

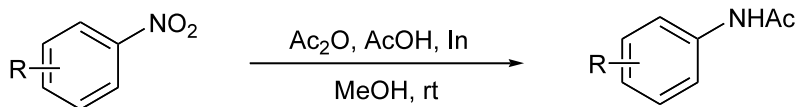
*Tetrahedron Letters* 44 (2003) 77

Byeong Hyo Kim,<sup>a,\*</sup> Rongbi Han,<sup>a</sup> Fengyu Piao,<sup>a</sup> Young Moo Jun,<sup>a</sup> Woonphil Baik<sup>b</sup> and Byung Min Lee<sup>c</sup>

<sup>a</sup>Department of Chemistry, Kwangwoon University, Seoul 139-701, Republic of Korea

<sup>b</sup>Department of Chemistry, Myong Ji University, Kyung Ki Do, Republic of Korea

<sup>c</sup>Korea Research Institute of Chemical Technology, Taejon, Republic of Korea

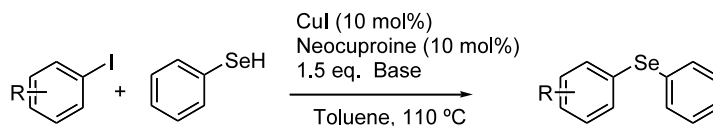


### A general method for the formation of diaryl selenides using copper(I) catalysts

*Tetrahedron Letters* 44 (2003) 81

Rattan K. Gujadhur and D. Venkataraman\*

Department of Chemistry, University of Massachusetts, Amherst, 710 North Pleasant Street, Amherst, MA 01003, USA

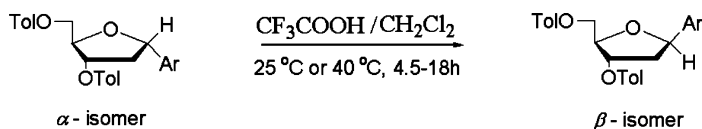


### Efficient epimerization of pyrene and other aromatic *C*-nucleosides with trifluoroacetic acid in dichloromethane

*Tetrahedron Letters* 44 (2003) 85

Yu Lin Jiang and James T. Stivers\*

Department of Pharmacology and Molecular Sciences, Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205-2185, USA



$\alpha$  - isomer

$\beta$  - isomer

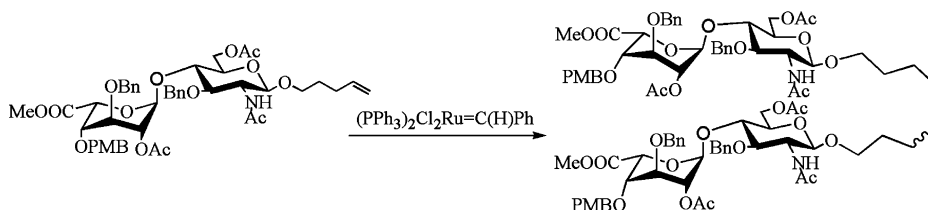
Ar = pyrene or other aromatic group

### Homodimerization of hyaluronan and heparan sulfate derivatives by olefin metathesis reaction

*Tetrahedron Letters* 44 (2003) 89

Shyam M. Rele, Suri S. Iyer and Elliot L. Chaikof\*

Laboratory of Biomolecular Materials Research, Emory University School of Medicine, Atlanta, GA 30322, USA

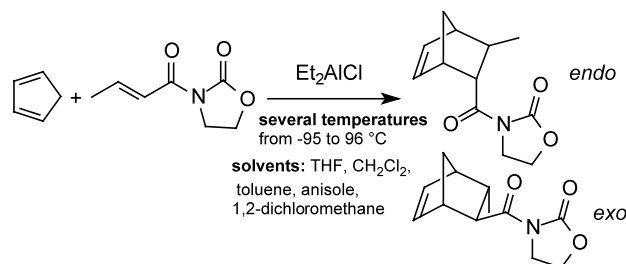


## Dynamic solvation effects on the *endo/exo* selectivity of the Diels–Alder reaction

*Tetrahedron Letters* 44 (2003) 93

Gianfranco Cainelli,\* Paola Galletti, Daria Giacomini\* and Arianna Quintavalla

*Dipartimento di Chimica 'G. Ciamician', University of Bologna, Via Selmi 2, I-40126 Bologna, Italy*

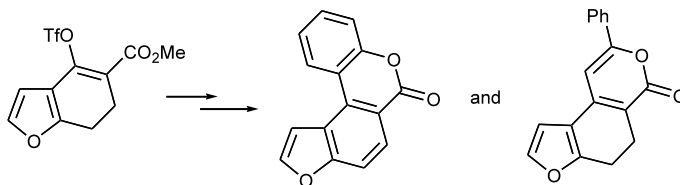


## Synthesis of new furocoumarin analogues via cross-coupling reaction of triflate

*Tetrahedron Letters* 44 (2003) 97

Stéphanie Hesse and Gilbert Kirsch\*

*Laboratoire d'Ingénierie Moléculaire et Biochimie Pharmacologique, Faculté des Sciences, Ile du Saulcy, 57045 Metz Cedex, France*



## Cyclosmenospongine, a new sesquiterpenoid aminoquinone from an Australian marine sponge *Spongia* sp.

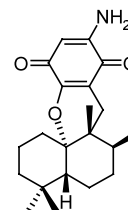
*Tetrahedron Letters* 44 (2003) 101

Natalia K. Utkina,<sup>a,\*</sup> Vladimir A. Denisenko,<sup>a</sup> Olga V. Scholokova,<sup>b</sup> Marina V. Virovaya<sup>b</sup> and Nina G. Prokof'eva<sup>a</sup>

<sup>a</sup>*Pacific Institute of Bioorganic Chemistry of the Russian Academy of Sciences, 690022 Vladivostok, Russia*

<sup>b</sup>*Far Eastern State University, Department of Bioorganic Chemistry and Biotechnology, 690000 Vladivostok, Russia*

A new sesquiterpenoid aminoquinone, cyclosmenospongine, containing a dihydropyran ring, was isolated from an Australian marine sponge *Spongia* sp., along with the known metabolites, smenospongiarine, ilimaquinone and smenospongine. The structure of the new compound was determined from spectroscopic data.

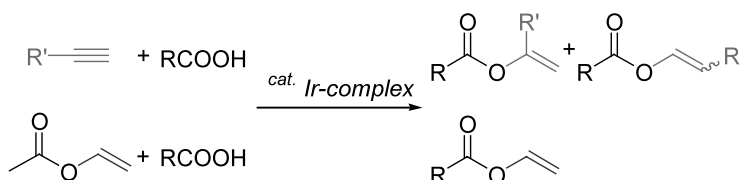


## Synthesis of enol and vinyl esters catalyzed by an iridium complex

*Tetrahedron Letters* 44 (2003) 103

Hideto Nakagawa, Yoshio Okimoto, Satoshi Sakaguchi and Yasutaka Ishii\*

*Department of Applied Chemistry, Faculty of Engineering, Kansai University, Suita, Osaka 564-8680, Japan*



## A one-pot synthesis of 1-arylalka-1,3-diynes by sequential acetylene zipper and Sonogashira reactions

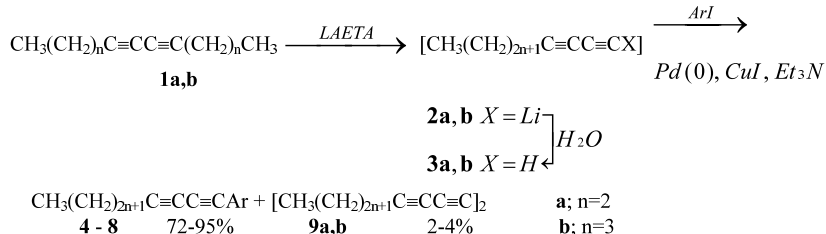
*Tetrahedron Letters 44 (2003) 107*

Irina A. Balova,<sup>a,\*</sup> Svetlana N. Morozkina,<sup>a</sup> David W. Knight<sup>b</sup> and Sergei F. Vasilevsky<sup>c</sup>

<sup>a</sup>Department of Chemistry, St. Petersburg State University, Universitetskij pr. 26, 198904 St. Petersburg, Russia

<sup>b</sup>Chemistry Department, Cardiff University, PO Box 912, Cardiff CF10 3TB, UK

<sup>c</sup>Institute of Chemical Kinetics & Combustion of Russian Academy of Sciences, Institutskaya Str., 3 Novosibirsk 630090, Russia



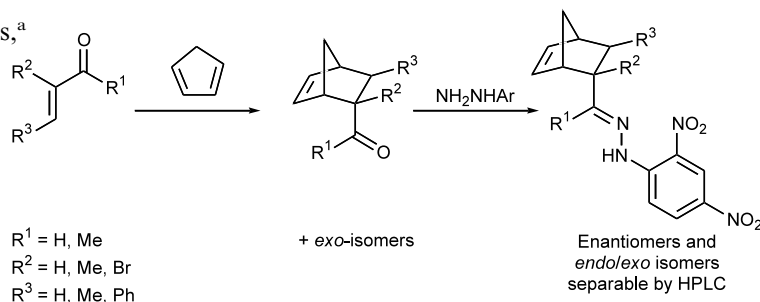
## A simple and versatile method to determine the enantiomeric purity of Diels–Alder adducts

*Tetrahedron Letters 44 (2003) 111*

Adrian Hall,<sup>b</sup> Lisa D. Harris,<sup>a</sup> Claire L. Jones,<sup>a</sup> Robert L. Jenkins<sup>a</sup> and Nicholas C. O. Tomkinson<sup>a,\*</sup>

<sup>a</sup>Department of Chemistry, Cardiff University, PO Box 912, Cardiff CF10 3TB, UK

<sup>b</sup>GlaxoSmithKline Research and Development LTD, The Frythe, Welwyn, Hertfordshire, AL6 9AR, UK

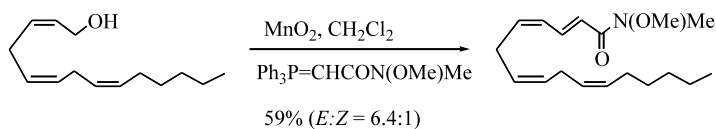


## In situ alcohol oxidation–Wittig reactions using *N*-methoxy-*N*-methyl-2-(triphenylphosphoranylidene)acetamide: application to the synthesis of a novel analogue of 5-oxo-eicosatetraenoic acid

*Tetrahedron Letters 44 (2003) 115*

Leonie Blackburn, Hisashi Kanno and Richard J. K. Taylor\*

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



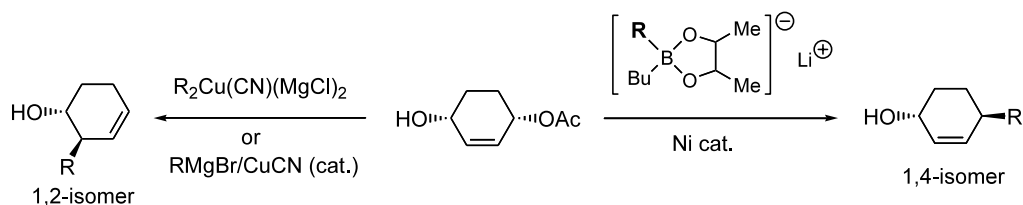
## Installation of carbon chain onto 2-cyclohexene-1,4-diol monoacetate

*Tetrahedron Letters 44 (2003) 119*

Ashraf A. Abbas<sup>a,b</sup> and Yuichi Kobayashi<sup>a,\*</sup>

<sup>a</sup>Department of Biomolecular Engineering, Tokyo Institute of Technology, 4259 Nagatsuta-cho, Midori-ku, Yokohama 226-8501, Japan

<sup>b</sup>Department of Chemistry, Faculty of Science, Cairo University, Giza, Egypt

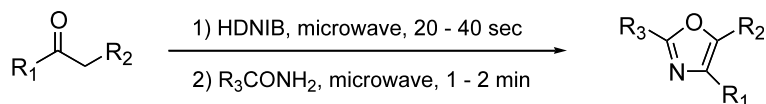


**Efficient synthesis of multi-substituted oxazoles under solvent-free microwave irradiation**

*Tetrahedron Letters 44 (2003) 123*

Jong Chan Lee,\* Hyun Jung Choi and Yong Chan Lee

*Department of Chemistry, Chung-Ang University, Seoul 156-756, South Korea*

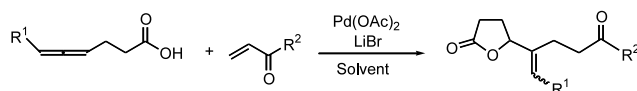


**Palladium(II)-catalyzed coupling of allenic acids and  $\alpha,\beta$ -unsaturated carbonyl compounds through tandem intramolecular oxypalladation and conjugate addition reactions**

*Tetrahedron Letters 44 (2003) 127*

Guosheng Liu and Xiyan Lu\*

*State Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, China*



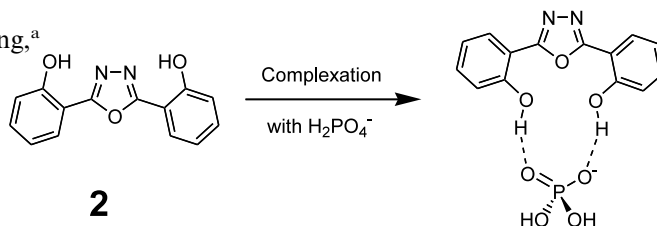
**Novel highly selective anion chemosensors based on 2,5-bis-(2-hydroxyphenyl)-1,3,4-oxadiazole**

*Tetrahedron Letters 44 (2003) 131*

Hui Tong,<sup>a</sup> Gang Zhou,<sup>a</sup> Lixiang Wang,<sup>a,\*</sup> Xiabin Jing,<sup>a</sup> Fosong Wang<sup>a</sup> and Jingping Zhang<sup>b</sup>

<sup>a</sup>The State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, PR China

<sup>b</sup>Faculty of Chemistry, Northeast Normal University, Changchun 130024, PR China



Two 1,3,4-oxadiazole based anion chemosensors **1** and **2** have been studied. They allow for the selective detection of F<sup>-</sup> and H<sub>2</sub>PO<sub>4</sub><sup>-</sup> in the presence of Cl<sup>-</sup> through both fluorescent and UV-vis spectral methods. Compound **2** can even distinguish H<sub>2</sub>PO<sub>4</sub><sup>-</sup> from F<sup>-</sup>.

**Langduin C, a novel dimeric diterpenoid from the roots of *Euphorbia fischeriana***

*Tetrahedron Letters 44 (2003) 135*

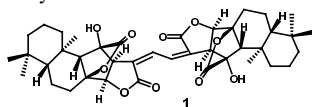
Tian-Xi Zhou,<sup>a</sup> Guan-Hu Bao,<sup>a</sup> Qin-Gao Ma,<sup>a</sup> Guo-Wei Qin,<sup>a,\*</sup> Chu-Tao Che,<sup>b</sup> Yang Lv,<sup>c</sup> Cheng Wang<sup>c</sup> and Qi-Tai Zheng<sup>c</sup>

<sup>a</sup>Shanghai Institute of Materia Medica, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai 200031, China

<sup>b</sup>School of Chinese Medicine, the Chinese University of Hong Kong, Shatin, Hong Kong

<sup>c</sup>Institute of Materia Medica, Chinese Academy of Medical Sciences, Beijing 100050, China

Langduin C, a novel dimeric diterpenoid, was isolated from the roots of *Euphorbia fischeriana* and its structure was established by spectral data and single-crystal X-ray diffraction analysis.



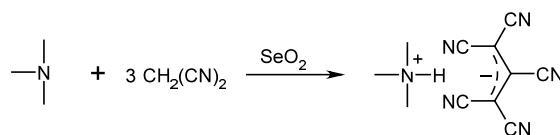


### Oxidative coupling of malononitrile with formation of 1,1,2,3,3-pentacyanopropene salts

*Tetrahedron Letters 44 (2003) 139*

Vladimir A. Kaminskii, Oleg Yu. Slabko, Andrey V. Kachanov\* and Boris V. Buhvetskii

*Department of Chemistry, Far Eastern State University, Octyabrskaya St. 27, 690000 Vladivostok, Russia*



### A sequential stereocontrolled cyclopropane ring formation and semi-pinacol rearrangement

*Tetrahedron Letters 44 (2003) 141*

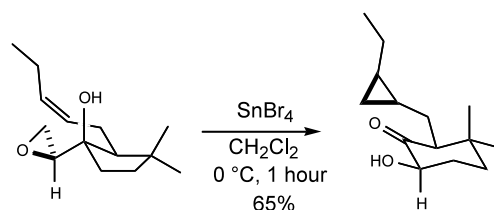
Charles M. Marson,<sup>a,\*</sup> Catriona A. Oare,<sup>a</sup> Jane McGregor,<sup>a</sup> Timothy Walsgrove,<sup>b</sup> Trevor J. Grinter<sup>b</sup> and Harry Adams<sup>c</sup>

<sup>a</sup>*Department of Chemistry, University of Sheffield, Sheffield S3 7HF, UK*

<sup>b</sup>*Glaxo SmithKline, Chemical Development, Old Powder Mills, nr. Leigh, Tonbridge, Kent TN11 9AN, UK*

<sup>c</sup>*Department of Chemistry, University of Sheffield, Sheffield S3 7HF, UK*

An unsaturated epoxy alcohol is transformed by tin(IV) bromide into an  $\alpha$ -ketol containing a cyclopropane ring.



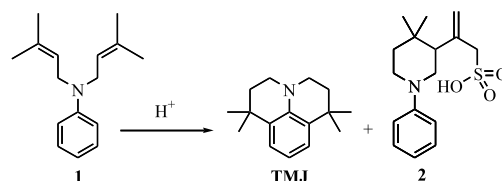
### Synthetic study of tetramethyljulolidine—a key intermediate toward the synthesis of the red dopant DCJTb for OLED applications

*Tetrahedron Letters 44 (2003) 145*

Banumathy Balaganesan, Shih-Wen Wen and Chin H. Chen\*

*Department of Applied Chemistry and Microelectronics and Information Systems Research Center, National Chiao Tung University, Hsinchu, Taiwan, ROC 300*

The formation and characterization of a novel chiral sulfonic acid derivative obtained during the synthesis of 1,1,7,7-tetramethyl julolidine, a key intermediate towards the red dopant DCJTb used for organic electroluminescent devices, upon bis-annulation of *N,N*-bis(4-methyl-2-butenyl)aniline is described.

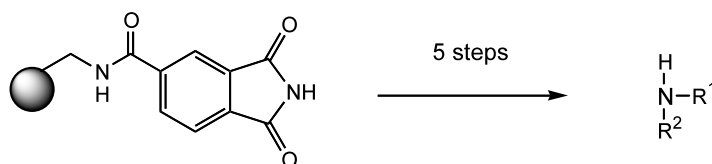


### A new versatile linker for the solid-phase synthesis of secondary amines

*Tetrahedron Letters 44 (2003) 149*

Heiko Glatz and Willi Bannwarth\*

*Institut für Organische Chemie und Biochemie, Universität Freiburg, Albertstraße 21, D-79104 Freiburg, Germany*

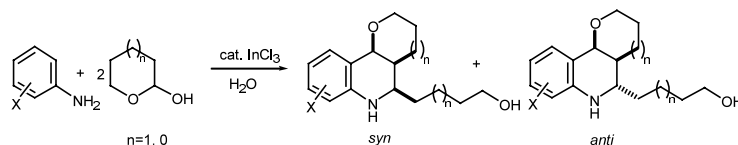


**InCl<sub>3</sub>-catalyzed reaction of aromatic amines with cyclic hemiacetals in water: facile synthesis of 1,2,3,4-tetrahydroquinoline derivatives**

*Tetrahedron Letters 44 (2003) 153*

Zigang Li, Jianheng Zhang and Chao-Jun Li\*

*Department of Chemistry, Tulane University, New Orleans, LA 70118, USA*



**Synthetic access to 5,10-disubstituted porphyrins**

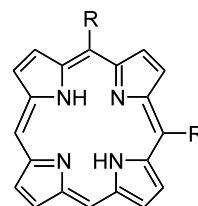
*Tetrahedron Letters 44 (2003) 157*

Sabine Hatscher<sup>a</sup> and Mathias O. Senge<sup>b,\*</sup>

<sup>a</sup>*Institut für Chemie, Organische Chemie, Freie Universität Berlin, Takustraße 3, D-14195 Berlin, Germany*

<sup>b</sup>*Institut für Chemie, Universität Potsdam, Karl-Liebknecht-Straße 24-25, D-14476 Golm, Germany*

The title porphyrins were prepared either by condensation via a '3+1' approach or by reaction of porphine with organolithium reagents.



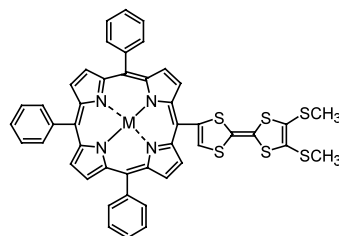
**TTF–porphyrin dyads as novel photoinduced electron transfer systems**

*Tetrahedron Letters 44 (2003) 161*

Shin-ichiro Sadaike, Kazuo Takimiya,\* Yoshio Aso and Tetsuo Otsubo\*

*Department of Applied Chemistry, Graduate School of Engineering, Hiroshima University, Higashi-Hiroshima 739-8527, Japan*

A TTF-linked porphyrin dyad and its zinc complex have been synthesized.



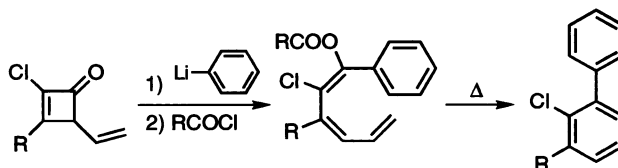
**3a** M = 2H  
**3b** M = Zn

**Synthesis of functionalized biaryl compounds via ring expansion of alkenylcyclobutenones**

*Tetrahedron Letters 44 (2003) 167*

Toshiyuki Hamura, Masato Morita, Takashi Matsumoto and Keisuke Suzuki\*

*Department of Chemistry, Tokyo Institute of Technology and CREST, Japan Science and Technology Corporation (JST), O-okayama, Meguro-ku, Tokyo 152-8551, Japan*

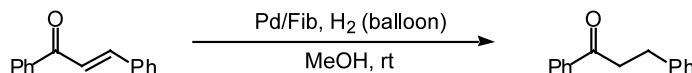


### Preparation of silk fibroin-supported Pd(0) catalyst for chemoselective hydrogenation: reduction of palladium(II) acetate by methanol on the protein

Hironao Sajiki,<sup>a,\*</sup> Takashi Ikawa,<sup>a</sup> Hiromi Yamada,<sup>b</sup> Kozo Tsubouchi<sup>b</sup> and Kosaku Hirota<sup>a,\*</sup>

<sup>a</sup>Laboratory of Medicinal Chemistry, Gifu Pharmaceutical University, Mitahora-higashi, Gifu 502-8585, Japan

<sup>b</sup>Laboratory of Biopolymer Characterization, National Institute of Agrobiological Sciences, Oowashi, Tsukuba 305-8634, Japan



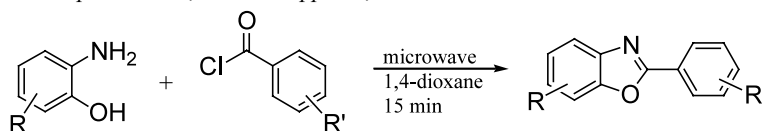
### Parallel synthesis of benzoxazoles via microwave-assisted dielectric heating

Richard S. Pottorf,<sup>a</sup> Naresh K. Chadha,<sup>a</sup> Martins Katkevics,<sup>b</sup> Vita Ozola,<sup>b</sup> Edgars Suna,<sup>b</sup> Hadi Ghane,<sup>c</sup> Tor Regberg<sup>c</sup> and Mark R. Player<sup>a,\*</sup>

<sup>a</sup>3-Dimensional Pharmaceuticals, Inc., 8 Clarke Drive, Cranbury, NJ 08512, USA

<sup>b</sup>Latvian Institute of Organic Synthesis, Aizkraukles 21, Riga LV-1006, Latvia

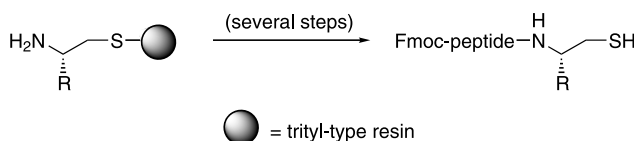
<sup>c</sup>Personal Chemistry, Hamnesplanaden 5, 753 19 Uppsala, Sweden



### Resin-bound aminothiols: synthesis and application

Spyros Mourtas, Christina Katakalous, Andriana Nicolettou, Chrysoula Tzavara, Dimitrios Gatos and Kleomenis Barlos\*

Department of Chemistry, University of Patras, Patras, Greece

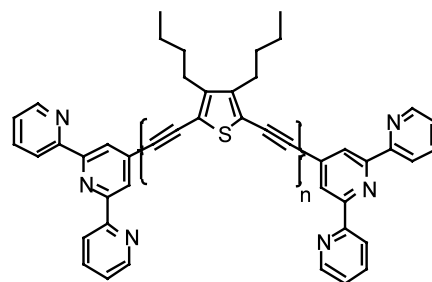


### Stepwise construction of novel zig-zag shaped thiophene-based back-to-back terpyridine ligands with acetylenic tethers

Antoinette De Nicola, Céline Ringenbach and Raymond Ziessel\*

Laboratoire de Chimie Moléculaire associé au CNRS, Ecole de Chimie, Polymère et Matériaux (ECPM), 25 rue Becquerel, 67087 Strasbourg, Cedex 02, France

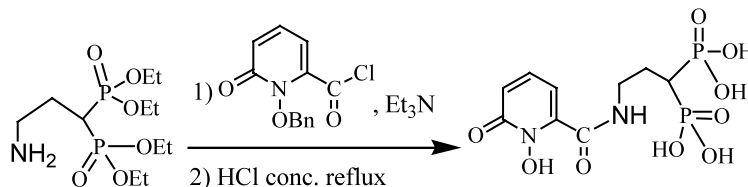
We present the synthesis and characterization of new arrays containing one to five accessory thiophenes covalently linked to terpyridines.



## Synthesis of tetradentate mixed bisphosphonates—new hydroxypyridinonate ligands for metal chelation therapy

Théodorine Bailly, Ramon Burgada, Thierry Prangé and Marc Lecouvey\*

Laboratoire de chimie Structurale Biomoléculaire (UMR 7033-CNRS), UFR S.M.B.H. Université Paris XIII. 74, Rue Marcel Cachin, F-93017 Bobigny Cedex France



## One-pot palladium-catalyzed highly chemo-, regio-, and stereoselective synthesis of *trans*-stilbene derivatives. A concise and convenient synthesis of resveratrol

Tuyet Jeffery\* and Benoît Ferber

Laboratoire de Synthèse Organique Sélective et Chimie Organométallique, Unité associée CNRS-UCP-ESCOM, 13, Boulevard de l'Hautil, 95092 Cergy Pontoise Cédex, France

A convenient, efficient and highly chemo-, regio-, and stereoselective one-flask synthetic method is reported for the construction of unsymmetrical (or symmetrical) *trans*-stilbene derivatives based on two sequential Heck-type reactions using tetraalkylammonium salt-based catalyst systems and vinyltrimethylsilane as double bond equivalent. Resveratrol has thus been concisely synthesized.

