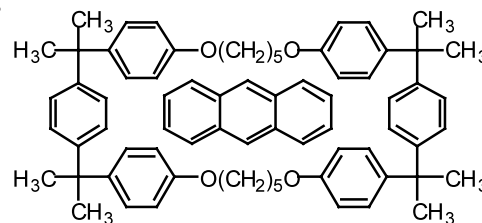


**A novel cyclophane–anthracene complex**

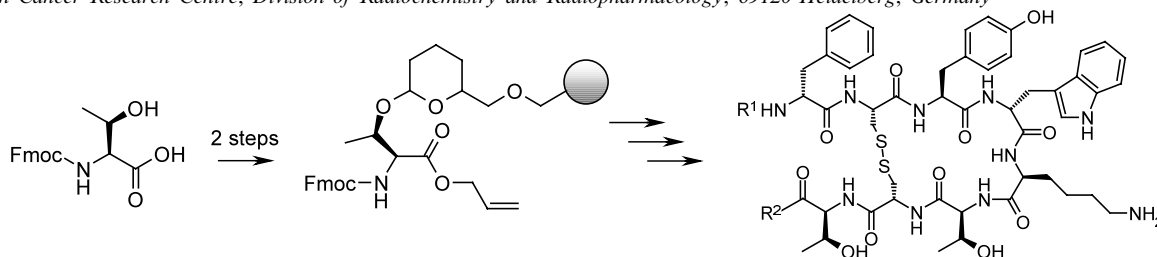
Tetrahedron Letters 43 (2002) 5017

Richard A. Bartsch,<sup>a,\*</sup> Piotr Kus,<sup>a,b</sup> N. Kent Dalley<sup>c</sup> and Xiaolan Kou<sup>c</sup><sup>a</sup>Department of Chemistry and Biochemistry, Texas Tech University, Lubbock, TX 79409-1061, USA<sup>b</sup>Department of Chemistry, Silesian University, 9 Szkolna Street, 40-006 Katowice, Poland<sup>c</sup>Department of Chemistry and Biochemistry, Brigham Young University, Provo, UT 84602-5700, USA

A cyclophane host formed by connecting the oxygen atoms of two  $\alpha,\alpha'$ -di-(4-hydroxyphenyl)-1,4-diisopropylbenzene units with two pentamethylene spacers forms a unique solid-state complex with anthracene.

**A general method for functionalising both the C- and N-terminals of Tyr<sup>3</sup>-octreotate**

Tetrahedron Letters 43 (2002) 5021

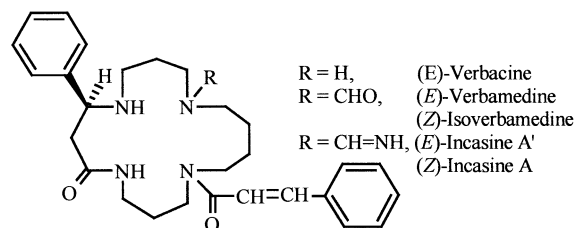
Keith A. N. Graham,<sup>a</sup> Qin Wang,<sup>a</sup> Michael Eisenhut,<sup>b</sup> Uwe Haberkorn<sup>a</sup> and Walter Mier<sup>a,\*</sup><sup>a</sup>Universitätsklinikum Heidelberg, Department of Nuclear Medicine, 69120 Heidelberg, Germany<sup>b</sup>German Cancer Research Centre, Division of Radiochemistry and Radiopharmacology, 69120 Heidelberg, Germany**C<sub>1</sub>-Derivatives of macrocyclic spermine alkaloids. Verbamedines versus incasines**

Tetrahedron Letters 43 (2002) 5025

Konstantin Drandarov and Manfred Hesse\*

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

The isolation, structure elucidation, and synthesis of the macrocyclic spermine alkaloids verbamedine and isoverbamedine from *Verbascum pseudonobile* Stoj. and Stef. are reported. The synthesis of *N*(13)-formimino-verbacine is described. Spectral and chemical evidence is presented to correct the previously published incorrect structures of the incasines A and A' isolated from *Incarvillea sinensis* LAM. The similarities between the natural C<sub>1</sub>-derivatives of verbacine and the biochemical one-carbon units transferring tetrahydrofolate cofactors have been observed.

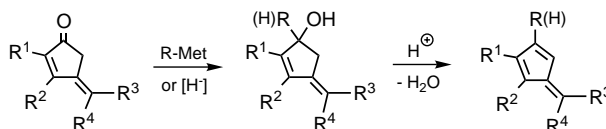
**Syntheses of pentafulvenes from 4-alkylidenecyclopentenones**

Tetrahedron Letters 43 (2002) 5029

Frédéric Antras, Mohammed Ahmar and Bernard Cazes\*

Laboratoire de Chimie Organique I, associé au CNRS, Université Claude Bernard-Lyon, Bât. CPE-Lyon, 43 Bd du 11 Novembre 1918, 69622 Villeurbanne, France

The two-step procedure for addition of an organometallic reagent or reduction followed by dehydration is an efficient synthesis of polysubstituted pentafulvenes from 4-alkylidenecyclopentenones.



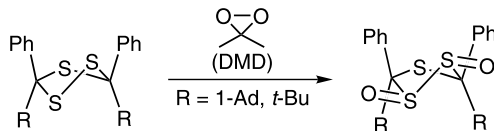
**Oxidation of *cis*-3,5-di-*tert*-alkyl-3,5-diphenyl-1,2,4-trithiolanes: isolation and some properties of the 1-oxides and the 1,2-dioxides**

*Tetrahedron Letters* 43 (2002) 5033

Hideaki Oshida, Akihiko Ishii\* and Juzo Nakayama\*

*Department of Chemistry, Faculty of Science, Saitama University, Saitama, Saitama 338-8570, Japan*

Oxidation of *cis*-3,5-di-*tert*-alkyl-3,5-diphenyl-1,2,4-trithiolane with dimethyldioxirane (DMD) gave the 1,2-dioxide, a *vic*-disulfoxide, the structure of which (R=1-Ad) was determined by X-ray crystallography.



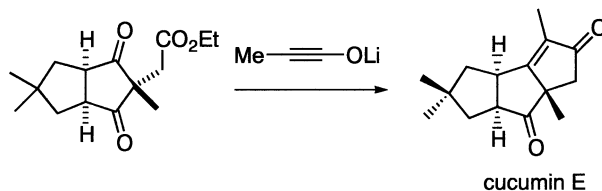
**An ynoate-initiated tandem process giving cyclopentenones: total synthesis of cucumin E**

*Tetrahedron Letters* 43 (2002) 5039

Mitsuru Shindo,<sup>a,b,\*</sup> Yusuke Sato<sup>a</sup> and Kozo Shishido<sup>a</sup>

<sup>a</sup>*Institute for Medicinal Resources, University of Tokushima, Sho-machi 1, Tokushima 770-8505, Japan*

<sup>b</sup>*PRESTO, JST, Japan*

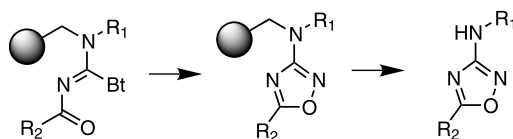


**An efficient solid phase synthesis of 3-alkylamino-1,2,4-oxadiazoles**

*Tetrahedron Letters* 43 (2002) 5043

Gergely M. Makara,\* Peter Schell, Kelley Hanson and Dennis Moccia

*NeoGenesis Pharmaceuticals, Inc., 840 Memorial Drive, Cambridge, MA 02139, USA*

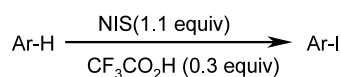


**Mild and regioselective iodination of electron-rich aromatics with *N*-iodosuccinimide and catalytic trifluoroacetic acid**

*Tetrahedron Letters* 43 (2002) 5047

Anne-Sophie Castanet, Françoise Colobert\* and Pierre-Emmanuel Broutin

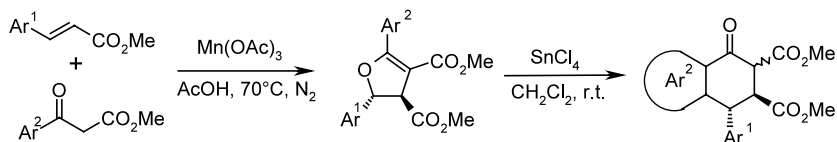
*Laboratoire de stéréochimie associé au CNRS, URA 7008, Université Louis Pasteur, ECPM, 25 rue Becquerel, 67087 Strasbourg Cedex 2, France*



### A new approach toward the synthesis of heterolignans

Frédéric Garzino, Alain Méou and Pierre Brun\*

Laboratoire de Synthèse Organique Sélective, GCOM2, UMR-CNRS 6114, Université de la Méditerranée, case 901, 163 Avenue de Luminy, 13288, Marseille Cedex 9, France



Ar<sup>1</sup>, Ar<sup>2</sup>: 3,4-dimethoxyphenyl; 2-thienyl; 2-furyl; 3-thienyl; 2-pyridyl; 3-pyridyl; 2-(2-bithiophenyl); 2-pyrrolyl

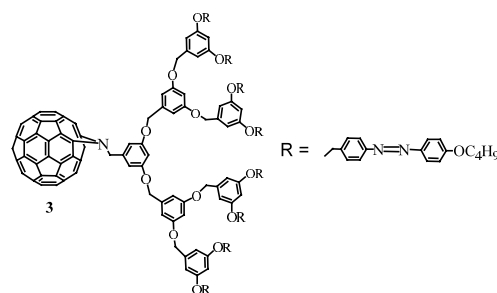
### Dendritic fullerenes (C<sub>60</sub>) with photoresponsive azobenzene groups

Kwang-Yol Kay,<sup>a,\*</sup> Ki-Jong Han,<sup>a</sup> Yong-Jae Yu<sup>a</sup> and Young Dong Park<sup>b</sup>

<sup>a</sup>Department of Molecular Science and Technology, Ajou University, Suwon 442-749, South Korea

<sup>b</sup>Department of Chemistry, Ajou University, Suwon 442-749, South Korea

Fullerene-cored dendrimers bearing up to eight photoisomerizable azobenzene groups in the periphery have been synthesized as potential photoswitches and spectroscopically characterized.

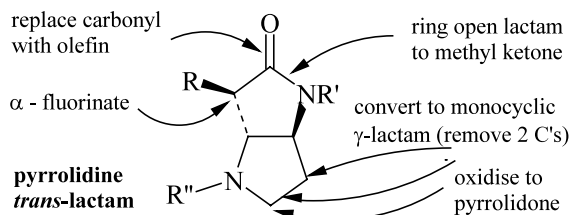


### Syntheses of templates derived from pyrrolidine *trans*-lactams as potential serine protease inhibitors

Simon J. F. Macdonald,\* Graham G. A. Inglis, Deborah Bentley and Michael D. Dowle

Medicinal Chemistry 1, RIRP CEDD, GlaxoSmithKline Medicines Research Centre, Gunnels Wood Road, Stevenage SG1 2NY, UK

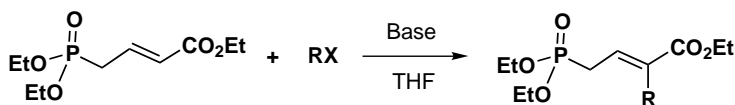
The synthesis of templates derived from pyrrolidine *trans*-lactams as shown in the graphic is described.



### Regio- and stereocontrolled preparation of $\alpha$ -substituted phosphonocrotonate derivatives

Geoffrey F. Solberghe and István E. Markó\*

Université catholique de Louvain, Département de Chimie, Unité de Chimie Organique et Médicinale, Bâtiment Lavoisier, Place Louis Pasteur 1, B-1348 Louvain-la-Neuve, Belgium



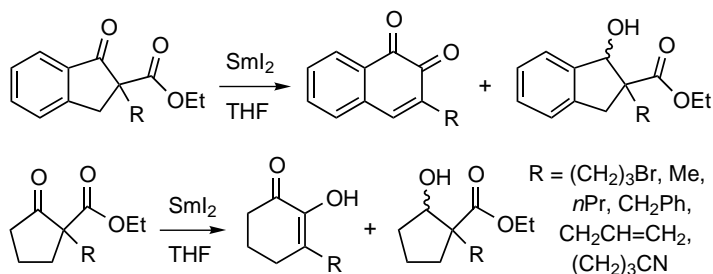
R = alkyl, allyl, benzyl  
 Yields : 50 - 75%  
 Selec. = 5:1 to 14:1

**Samarium diiodide-promoted intramolecular ketone-ester coupling reaction: novel cyclization and ring expansion pathway**

*Tetrahedron Letters 43 (2002) 5067*

Kazuki Iwaya, Momoe Nakamura and Eietsu Hasegawa\*

*Department of Chemistry, Faculty of Science, Niigata University, Ikarashi-2 8050, Niigata 950-2181, Japan*



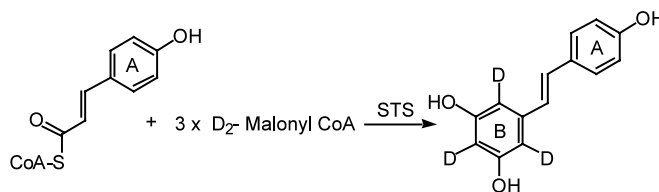
**Incorporation of three deuterium atoms excludes intermediacy of stilbenecarboxylic acid in stilbene synthase reaction**

*Tetrahedron Letters 43 (2002) 5071*

Masaaki Shibuya,<sup>a</sup> Mizue Nishioka,<sup>a</sup> Ushio Sankawa<sup>b</sup> and Yutaka Ebizuka<sup>a,\*</sup>

<sup>a</sup>*Graduate School of Pharmaceutical Sciences, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-0033, Japan*

<sup>b</sup>*International Traditional Medicine Research Center, Toyama International Health Complex, 151 Tomosugi, Toyama 939-8224, Japan*

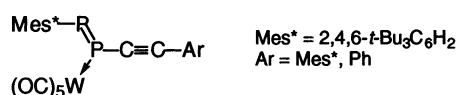


**Synthesis of pentacarbonyltungsten(0) complexes of bulky 1,2-diphosphabut-1-en-3-yne as a heavier enyne congener**

*Tetrahedron Letters 43 (2002) 5075*

Shigekazu Ito, Katsunori Nishide and Masaaki Yoshifuji\*

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

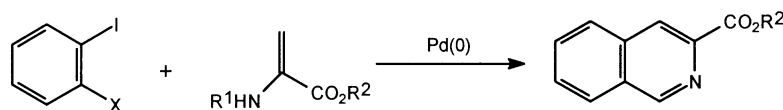


**A new (3+3) annulation route to isoquinoline-3-carboxylates**

*Tetrahedron Letters 43 (2002) 5079*

Shital K. Chattopadhyay,\* Susama Maity, Benoy K. Pal and Srikanta Panja

*Department of Chemistry, University of Kalyani, Kalyani 741235, West Bengal, India*



## Combinatorial discovery of novel fluorescent dyes based on Dapoxyl™

Tetrahedron Letters 43 (2002) 5083

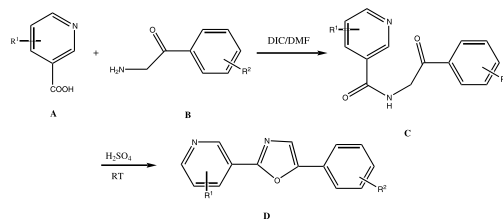
Qing Zhu,<sup>a</sup> Hai-Shin Yoon,<sup>b</sup> Puja B. Parikh,<sup>b</sup> Young-Tae Chang<sup>b</sup> and Shao Q. Yao<sup>a,c,\*</sup>

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

<sup>b</sup>Department of Chemistry, New York University, New York, NY 10003, USA

<sup>c</sup>Department of Biological Sciences, National University of Singapore, 3 Science Drive 3, Singapore 117543, Singapore

We have developed a new method for fast and effective synthesis of fluorescent dyes based on Dapoxyl™. The strategy combines parallel solution-phase chemistry with high-throughput screening to rapidly identify new dyes that contain novel fluorescence properties.<sup>3</sup>



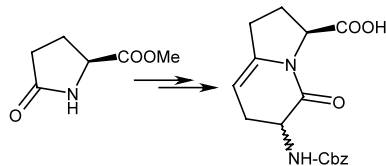
## Synthesis of an azabicycloalkane amino acid scaffold as potential rigid dipeptide mimetic

Tetrahedron Letters 43 (2002) 5087

Régis Millet,<sup>a</sup> Juozas Domarkas,<sup>a</sup> Pauline Rombaux,<sup>a</sup> Benoît Rigo,<sup>b</sup> Raymond Houssin<sup>a</sup> and Jean-Pierre Hénichart<sup>a,\*</sup>

<sup>a</sup>Institut de Chimie Pharmaceutique Albert Lespagnol, Université de Lille 2, EA 2692, 3 rue du Professeur Laguesse, F-59006 Lille, France

<sup>b</sup>Ecole des Hautes Etudes Industrielles, 13 rue de Toul, F-59046 Lille, France



## The first Bischler–Napieralski cyclization in a room temperature ionic liquid

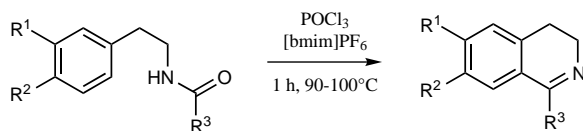
Tetrahedron Letters 43 (2002) 5089

Zaher M. A. Judeh,<sup>a,\*</sup> Chi Bun Ching,<sup>a</sup> Jie Bu<sup>a</sup> and Adam McCluskey<sup>b</sup>

<sup>a</sup>Chemical and Process Engineering Centre, National University of Singapore, 10 Kent Ridge Crescent, Singapore 117576

<sup>b</sup>Chemistry, School of Environmental and Life Sciences, The University of Newcastle, Callaghan, NSW 2308, Australia

The effectiveness of the ionic liquid [bmim]PF<sub>6</sub> as a solvent for the Bischler–Napieralski cyclization was examined for the preparation of isoquinoline derivatives.



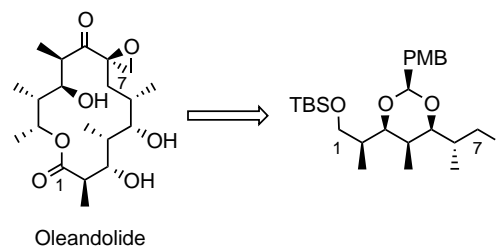
## Advances in the vinylogous Mukaiyama aldol reaction and its application to the synthesis of the C1–C7 subunit of oleandolide

Tetrahedron Letters 43 (2002) 5093

Jorma Hassfeld and Markus Kalesse\*

Universität Hannover, Institut für Organische Chemie, Schneiderberg 1B, 30167 Hannover, Germany

The synthesis of the C1–C7 subunit is achieved by *syn*-selective and Felkin-controlled addition of a vinylogous silyl ketene acetal to the  $\alpha$ -chiral Roche aldehyde **15**.



## Gallium-mediated allylation of carbonyl compounds in water

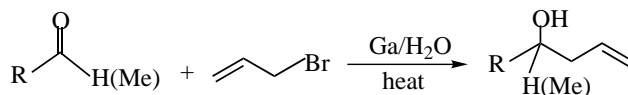
Tetrahedron Letters 43 (2002) 5097

Zhiyong Wang,<sup>a,\*</sup> Shizhen Yuan<sup>a</sup> and Chao-Jun Li<sup>b</sup>

<sup>a</sup>Department of Chemistry, University of Science and Technology of China, Hefei, Anhui 230026, China

<sup>b</sup>Department of Chemistry, University of Tulane, New Orleans, LA 70118, USA

Ga-mediated allylation of aldehydes or ketones in distilled or tap water generated the corresponding homoallyl alcohols in high yields without the assistance of either acidic media or sonication.



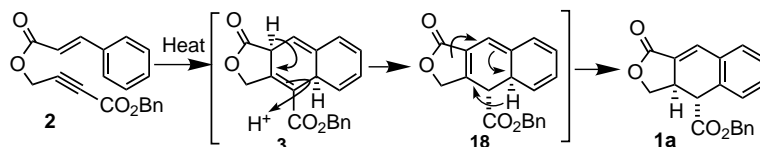
## Mechanism leading to the observed product of intramolecular aryl Diels–Alder reaction

Tetrahedron Letters 43 (2002) 5101

Samuel Chackalamanni,<sup>\*</sup> Darío Doller and Keith Eagen

Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033, USA

Deuterium labeling studies indicate that the mechanism of intramolecular aryl Diels–Alder reaction involves a double bond isomerization of the initial cycloadduct, followed by a suprafacial 1,5-dienyl hydrogen shift.

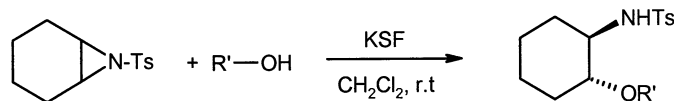


## Montmorillonite clay catalyzed cleavage of aziridines with alcohols

Tetrahedron Letters 43 (2002) 5105

J. S. Yadav,<sup>\*</sup> B. V. S. Reddy, E. Balanarsaiah and S. Raghavendra

Division of Organic Chemistry, Indian Institute of Chemical Technology, Hyderabad 500007, India

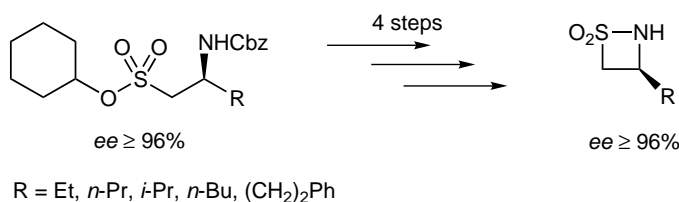


## Efficient asymmetric synthesis of 3-substituted $\beta$ -sultams

Tetrahedron Letters 43 (2002) 5109

Dieter Enders<sup>\*</sup> and Stefan Wallert

Institut für Organische Chemie, Rheinisch-Westfälische Technische Hochschule, Professor-Pirlet-Str. 1, 52074 Aachen, Germany

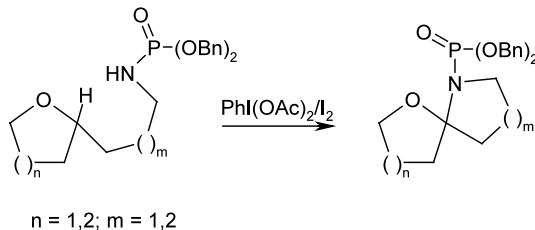


## Synthesis of oxa-aza spirobicycles by intramolecular hydrogen abstraction promoted by *N*-radicals in carbohydrate systems

Tetrahedron Letters 43 (2002) 5113

Raimundo Freire, Angeles Martín, Inés Pérez-Martín and Ernesto Suárez\*

Instituto de Productos Naturales y Agrobiología del C.S.I.C., Carretera de La Esperanza 3, 38206 La Laguna, Tenerife, Spain



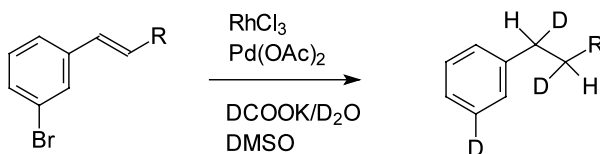
## Development of combined microwave-enhanced labelling procedures for maximising deuterium incorporation

Tetrahedron Letters 43 (2002) 5117

Michael R. Chappelle,<sup>a</sup> Barry B. Kent,<sup>a</sup> John R. Jones,<sup>b,\*</sup> Shui-Yu Lu<sup>b</sup> and Alan D. Morgan<sup>a</sup>

<sup>a</sup>Amersham Plc, Cardiff Laboratories, Whitchurch, Cardiff CF14 7YT, UK

<sup>b</sup>Department of Chemistry, School of Physics and Chemistry, University of Surrey, Guildford, Surrey GU2 7XH, UK



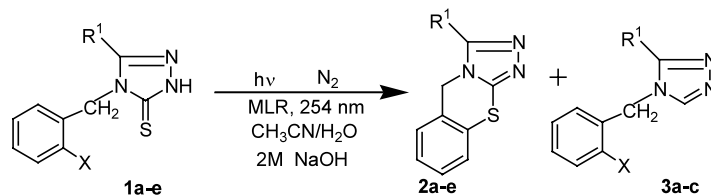
## A new base-mediated photocyclization to 1,2,4-triazolo[3,4-*b*]-1,3-(4*H*)-benzothiazines via 1,2,4-triazole-3-thiones

Tetrahedron Letters 43 (2002) 5119

Annamalai Senthilvelan and Vayalakkavoor T. Ramakrishnan\*

Department of Organic Chemistry, School of Chemical Sciences, University of Madras, Guindy Campus, Chennai 600 025, India

The photocyclization of substituted 1,2,4-triazole-3-thiones, under base-mediated conditions, afforded 1,2,4-triazolo[3,4-*b*]-1,3-(4*H*)-benzothiazines along with the desulfurization product.



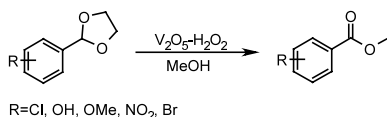
## V<sub>2</sub>O<sub>5</sub>-H<sub>2</sub>O<sub>2</sub>: a convenient reagent for the direct oxidation of acetals to esters

Tetrahedron Letters 43 (2002) 5123

Rangam Gopinath, Alok Ranjan Paital and Bhisma K. Patel\*

Department of Chemistry, Indian Institute of Technology, Guwahati 781 039, India

Both cyclic and acyclic acetals were deprotected to give the corresponding aldehydes in acetonitrile, and are transformed to methyl esters in methanol, on treatment with a catalytic quantity of V<sub>2</sub>O<sub>5</sub> and H<sub>2</sub>O<sub>2</sub>. Under identical conditions, acid-sensitive protecting groups, such as tetrahydropyranyl and *tert*-butyldimethylsilyl ethers, were cleaved regenerating the corresponding alcohols.

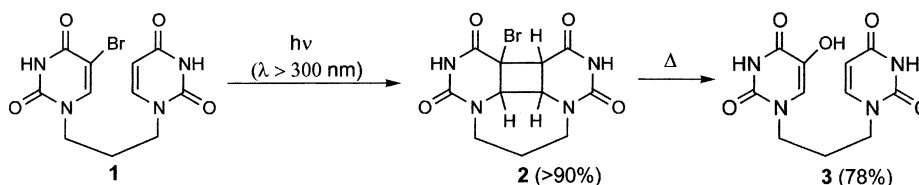


## Photocycloaddition of 5-bromouracil to uracil in a dinucleotide model compound

Tetrahedron Letters 43 (2002) 5127

Bohdan Skalski,\* Magdalena Rapp, Marek Suchowiak and Krzysztof Golankiewicz

Faculty of Chemistry, A. Mickiewicz University, Grunwaldzka 6, 60-780 Poznań, Poland



## Vitexlactam A, a novel labdane diterpene lactam from the fruits of *Vitex agnus-castus*

Tetrahedron Letters 43 (2002) 5131

Sheng-Hong Li,<sup>a</sup> Hong-Jie Zhang,<sup>b</sup> Sheng-Xiang Qiu,<sup>c,\*</sup> Xue-Mei Niu,<sup>a</sup> Bernard D. Santarsiero,<sup>d</sup> Andrew D. Mesecar,<sup>d</sup> Harry H. S. Fong,<sup>b,e</sup> Norman R. Farnsworth<sup>b,e</sup> and Han-Dong Sun<sup>a,\*</sup>

<sup>a</sup>State Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, the Chinese Academy of Sciences, Kunming 650204, Yunnan, China

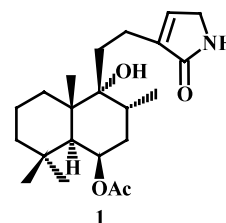
<sup>b</sup>Program for Collaborative Research in the Pharmaceutical Sciences, College of Pharmacy, University of Illinois at Chicago, 833 S. Wood Street, Chicago, IL 60612, USA

<sup>c</sup>Herbstandard, Inc., 1743 Canyon View Court, Chesterfield, MO 63017, USA

<sup>d</sup>The Center for Pharmaceutical Biotechnology and the Department of Medicinal Chemistry and Pharmacognosy, University of Illinois at Chicago, 900 S. Ashland Avenue, Chicago, IL 60607, USA

<sup>e</sup>UIC/NIH Center for Botanical Dietary Supplements Research, University of Illinois at Chicago, 833 S. Wood Street, Chicago, IL 60612, USA

A novel labdane diterpene alkaloid, vitexlactam A (**1**) was isolated as a prism from the *n*-hexane extract of the fruits of *Vitex agnus-castus* through normal and reverse phase column chromatography. Its structure was elucidated to be 6 $\beta$ -acetoxy-9 $\alpha$ -hydroxy-13(14)-labden-16,15-amide, based on chemical and spectral evidences including 1D and 2D NMR spectra. The structure was confirmed by X-ray crystallographic analysis. Compound **1** is the first naturally occurring labdane diterpenoid containing an  $\alpha,\beta$ -unsaturated  $\gamma$ -lactam moiety.

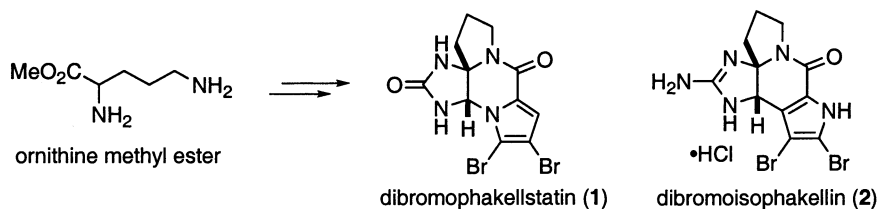


## Synthesis of dibromophakellstatin and dibromoisophakellin

Tetrahedron Letters 43 (2002) 5135

Kevin J. Wiese, Kenichi Yakushijin and David A. Horne\*

Oregon State University, Department of Chemistry, Corvallis, OR 97331, USA

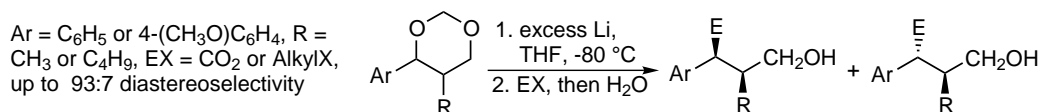


## Diastereoselective electrophilic substitution of $\gamma$ -oxy-substituted benzylolithiums

Tetrahedron Letters 43 (2002) 5137

Maria A. Arrica, Ugo Azzena,\* Luciano Pilo and Elisabetta Piras

Dipartimento di Chimica e Facoltà di Farmacia, Università di Sassari, via Vienna 2, I-07100 Sassari, Italy





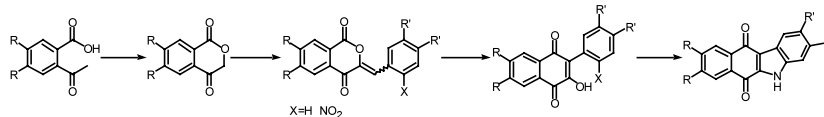
## Palladium-catalyzed synthesis of *o*-acetylbenzoic acids: a new, efficient general route to 2-hydroxy-3-phenyl-1,4-naphthoquinones and indolo[2,3-*b*]naphthalene-6,11-diones

Tetrahedron Letters 43 (2002) 5141

José C. Barcia, Jacobo Cruces, Juan C. Estévez, Ramón J. Estévez\* and Luis Castedo

Departamento de Química Orgánica and Unidade Asociada (C.S.I.C.), Universidade de Santiago, 15782 Santiago de Compostela, Spain

We describe here a new, efficient general synthesis of *o*-acetylbenzoic acids by Heck palladium-catalyzed arylation of *n*-butyl vinyl ether with *o*-bromobenzoic acid esters and the application of this method to the synthesis of 3-benzylideneisochroman-1,4-diones, which readily rearrange to 2-hydroxy-3-phenyl-1,4-naphthoquinones. The application of this strategy to the synthesis of indolo[2,3-*b*]naphthalene-6,11-diones is also described.



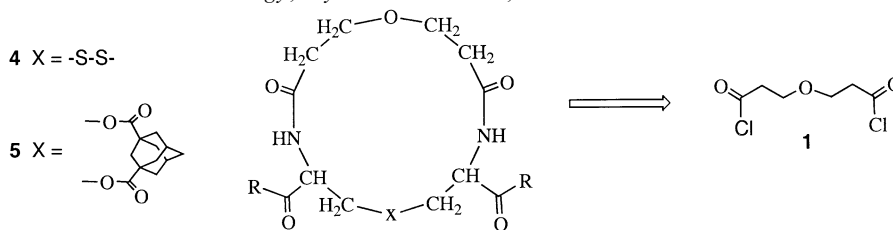
## Design, synthesis and membrane ion transport properties of cystine- and serine-based *cyclo*-4-oxa-heptane-1,7-bisamides

Tetrahedron Letters 43 (2002) 5145

Darshan Ranganathan,<sup>a,\*</sup> Manoj P. Samant,<sup>a</sup> R. Nagaraj<sup>b</sup> and E. Bikshapathy<sup>b</sup>

<sup>a</sup>Organic Division III, Discovery Laboratory, Indian Institute of Chemical Technology, Hyderabad 500 007, India

<sup>b</sup>Centre for Cellular and Molecular Biology, Hyderabad 500 007, India



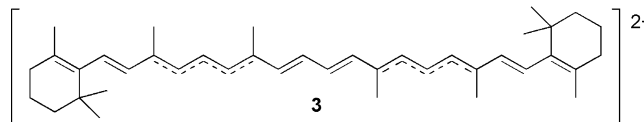
## Preparation and structure elucidation by NMR of the charge delocalised $\beta,\beta$ -carotene dication

Tetrahedron Letters 43 (2002) 5149

Bjart Frode Lutnaes, Liv Bruås, Jostein Krane and Synnøve Liaaen-Jensen\*

Department of Chemistry, Norwegian University of Science and Technology (NTNU), NO-7491 Trondheim, Norway

The charge delocalised  $\beta,\beta$ -carotene dication **3** was formed from  $\beta,\beta$ -carotene+ $\text{BF}_3$ -etherate. The structure was established by 600 MHz NMR ( $-25^\circ\text{C}$ ), COSY, HSQC, HMBC, 2D ROESY and NIR ( $\lambda_{\text{max}}$  985 nm rt). The effect of the two delocalised charges on chemical shift (charge distribution) and bond distance ( $^3J_{\text{H,H}}$ ) is discussed.



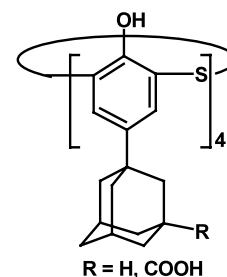
## First synthesis of adamantylated thiacalix[4]arenes

Tetrahedron Letters 43 (2002) 5153

Elvira Shokova, Victor Tafeenko and Vladimir Kovalev\*

Laboratory of Macrocyclic Receptors, Chemistry Department of Moscow State University, Moscow 119899, Russia

The syntheses of *p*-(3-*R*-1-adamantyl)thiacalix[4]arenes ( $\text{R} = \text{H}; \text{COOH}$ ) were carried out for the first time both by direct condensation of *p*-(1-adamantyl)phenol and elemental sulfur for *p*-(1-adamantyl)thiacalix[4]arene and by adamantylation of *p*-H-thiacalix[4]arene with 1-adamantanol or 3-carboxy-1-adamantanol in TFA.



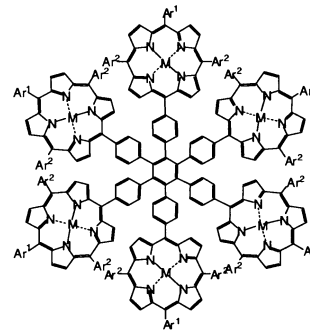
### Efficient synthesis of benzene-centered cyclic porphyrin hexamers

*Tetrahedron Letters 43 (2002) 5157*

Masayoshi Takase,<sup>a</sup> Rami Ismael,<sup>a</sup> Ryo Murakami,<sup>a</sup> Masako Ikeda,<sup>a</sup>  
Dongho Kim,<sup>b,\*</sup> Hideyuki Shinmori,<sup>a</sup> Hiroyuki Furuta<sup>a</sup> and Atsuhiko Osuka<sup>a,\*</sup>

<sup>a</sup>Department of Chemistry, Graduate School of Science, Kyoto University, and CREST,  
Japan Science and Technology Corporation (JST), Kyoto 606-8502, Japan

<sup>b</sup>Ultrafast Optical Characteristics Control and Spectroscopy Laboratory,  
Department of Chemistry, Yonsei University, Seoul 120-749, South Korea



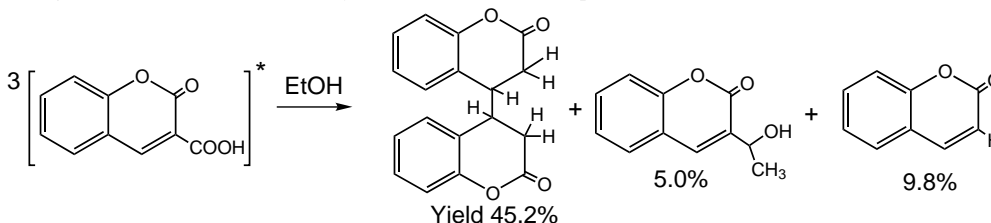
### A new type of photodimerization reaction for coumarin derivatives

*Tetrahedron Letters 43 (2002) 5161*

Hiroki Kawata,<sup>a,\*</sup> Satoko Ichikawa,<sup>a</sup> Tsutomu Kumagai<sup>b</sup> and  
Shigeya Niizuma<sup>a</sup>

<sup>a</sup>Faculty of Humanities and Social Sciences, Iwate University, Ueda, Morioka 020-8550, Japan

<sup>b</sup>Graduate School of Science, Tohoku University, Sendai 980-0845, Japan



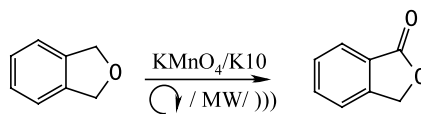
### Selective oxidation of alkylarenes in dry media with potassium permanganate supported on montmorillonite K10

*Tetrahedron Letters 43 (2002) 5165*

Ahmad Shaabani,<sup>a,\*</sup> Ayoob Bazgir,<sup>a</sup> Fatemeh Teimouri<sup>a</sup> and Donald G. Lee<sup>b,\*</sup>

<sup>a</sup>Chemistry Department, Shahid Beheshti University, PO Box 19395-4716, Tehran, Iran

<sup>b</sup>Chemistry Department, Regina University, Regina, Saskatchewan, Canada S4S 0A2



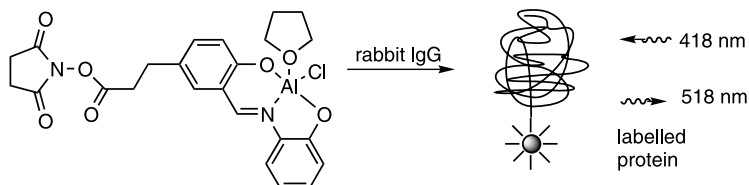
### Towards novel biolabels: synthesis of a tagged highly fluorescent Schiff-base aluminium complex

*Tetrahedron Letters 43 (2002) 5169*

Mark S. J. Briggs,<sup>a</sup> John S. Fossey,<sup>b</sup> Christopher J. Richards,<sup>b,\*</sup> Brian Scott<sup>a,b</sup> and John Whateley<sup>a</sup>

<sup>a</sup>Amersham Pharmacia Biotech, Cardiff Laboratories, Forest Farm Estate, Whitechurch, Cardiff CF14 7YT, UK

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



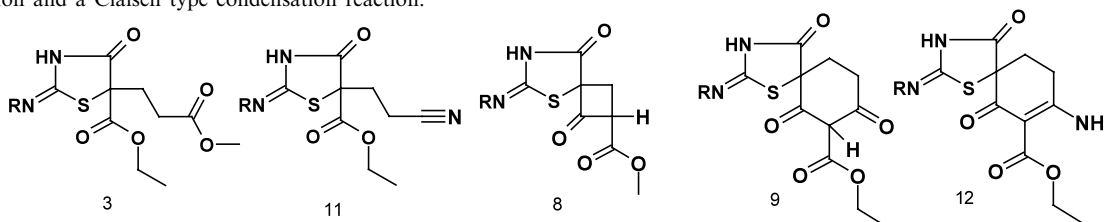
## Michael additions: a regioselective approach to the synthesis of spirothiazolidinones

*Tetrahedron Letters* 43 (2002) 5173

Madhukar S. Chande\* and Vijay Suryanarayan

*Department of Chemistry, The Institute of Science, 15, Madam Cama Road, Mumbai 400 032, India*

Novel routes to the synthesis of spirothiazolidinones have been designed using a Michael addition reaction followed by a Dieckmann condensation and a Claisen type condensation reaction.

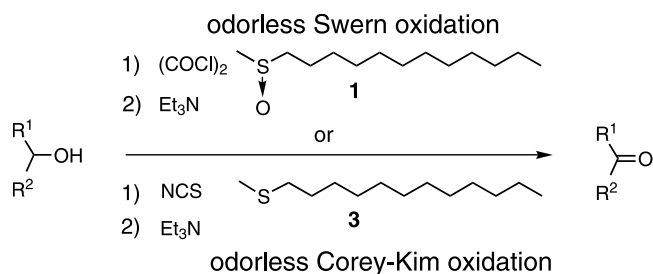


## New odorless protocols for the Swern and Corey–Kim oxidations

*Tetrahedron Letters* 43 (2002) 5177

Kiyoharu Nishide, Shin-ichi Ohsugi,  
Masato Fudesaka, Sumiaki Kodama and  
Manabu Node\*

*Kyoto Pharmaceutical University, Misasagi, Yamashina,  
Kyoto 607-8414, Japan*

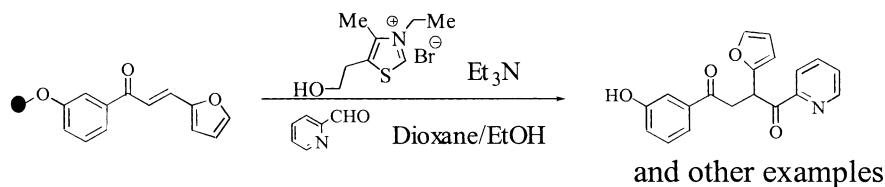


## Solid-phase synthesis of 1,4-diketones by thiazolium salt promoted addition of aldehydes to chalcones

*Tetrahedron Letters* 43 (2002) 5181

Sadagopan Raghavan\* and Kancharla Anuradha

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

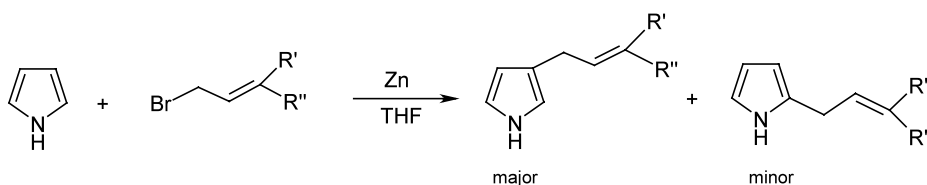


## Zinc-mediated Barbier reactions of pyrrole and indoles: a new method for the alkylation of pyrrole and indoles

*Tetrahedron Letters* 43 (2002) 5185

J. S. Yadav,\* B. V. S. Reddy, P. Muralikrishna Reddy and Ch. Srinivas

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

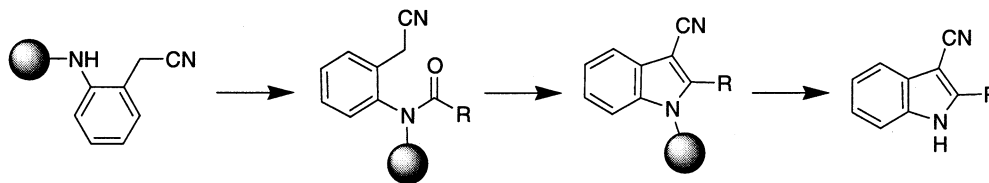


### Efficient solid-phase synthesis of 2,3-substituted indoles

*Tetrahedron Letters* 43 (2002) 5189

Dean A. Wacker\* and Padmaja Kasireddy

*Bristol-Myers Squibb Company, Experimental Station, PO Box 80336, Wilmington, DE 19880-0336, USA*



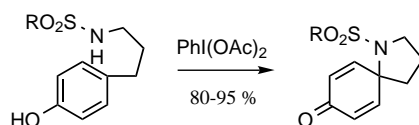
### Efficient oxidative spirocyclization of phenolic sulfonamides

*Tetrahedron Letters* 43 (2002) 5193

Sylvain Canesi, Philippe Belmont, Denis Bouchu, Laurence Rousset and Marco A. Ciufolini\*

*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 cédex, France*

Iodobenzene diacetate converts sulfonamide derivatives of homotyramines to spirocyclic azaheterocycles in high yield

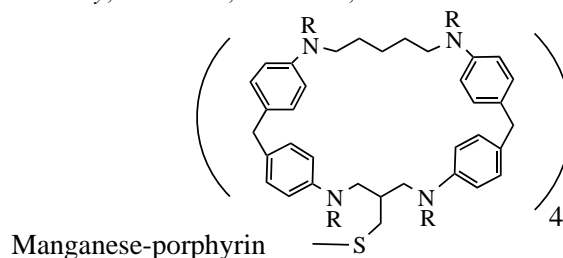


### Hydroxylation of steroids with an artificial P-450 catalyst bearing synthetic cyclophanes as binding groups

*Tetrahedron Letters* 43 (2002) 5197

Ronald Breslow\* and Zhenglai Fang

*Department of Chemistry, Columbia University, New York, NY 10027, USA*



### Thorectandramine, a novel $\beta$ -carboline alkaloid from the marine sponge *Thorectandra* sp.

*Tetrahedron Letters* 43 (2002) 5201

Romila D. Charan,<sup>a</sup> Tawnya C. McKee,<sup>a,\*</sup> Kirk R. Gustafson,<sup>a</sup> Lewis K. Pannell<sup>b</sup> and Michael R. Boyd<sup>a</sup>

<sup>a</sup>*Molecular Targets Drug Discovery Program, Center for Cancer Research, National Cancer Institute, Frederick, MD 21702-1201, USA*

<sup>b</sup>*Laboratory of Bioorganic Chemistry, NIDDK, Bethesda, MD 20892, USA*

The isolation, structure elucidation and biological activity of a novel hexacyclic quaternary alkaloid, thorectandramine (**1**), from a Palauan sponge of the genus *Thorectandra* are reported.

