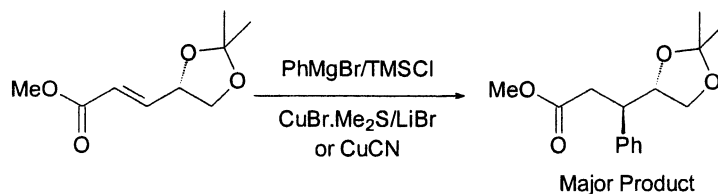
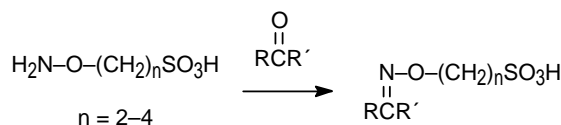


**A study of conjugate addition to a  $\gamma,\delta$ -dioxolanyl- $\alpha,\beta$ -unsaturated ester***Tetrahedron Letters 42 (2001) 4281*

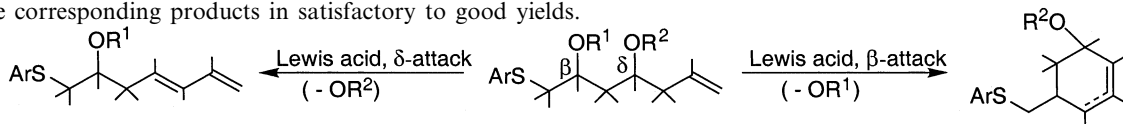
Guoxia Han and Victor J. Hruby\*

*Department of Chemistry, University of Arizona, Tucson, AZ 85721, USA* **$\omega$ -Aminooxyalkanesulfonic acids. Novel nucleophilic sulfoalkylation reagents***Tetrahedron Letters 42 (2001) 4285*

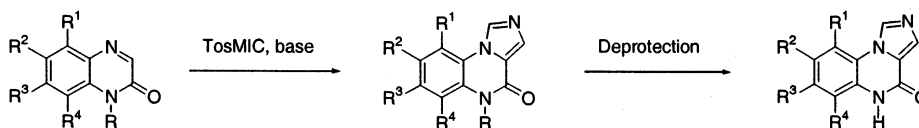
Maciej Adamczyk,\* Yon-Yih Chen and Phillip G. Mattingly

*Abbott Laboratories, Diagnostics Division, Department of Chemistry D-09NM, Building AP 20, 100 Abbott Park Road, Abbott Park, IL 60064-6016, USA***Polyfunctional adducts assembled with the help of a one-pot sequence of three  $A_{DE}$  reactions as synthetically useful intermediates. The course of the Lewis acid induced transformations of the 4,6-dialkoxy-7-arylthioheptene moiety***Tetrahedron Letters 42 (2001) 4289*Dimitry S. Chekmarev,<sup>a</sup> Margarita I. Lazareva,<sup>a</sup> Georgy V. Zatonsky,<sup>a</sup> Ron Caple<sup>b,\*</sup> and William Smit<sup>a</sup><sup>a</sup>*N. D. Zelinsky Institute of Organic Chemistry, Leninsky pr., 47, 117913 Moscow, Russia*<sup>b</sup>*Department of Chemistry, University of Minnesota-Duluth, Duluth 55812, USA*

Depending on the substrate structure and reaction conditions both types of transformations can be carried out selectively to give the corresponding products in satisfactory to good yields.

**Reaction of quinoxalin-2-ones with TosMIC reagent: synthesis of imidazo[1,5-a]quinoxalin-4-ones***Tetrahedron Letters 42 (2001) 4293*

Ping Chen,\* Joel C. Barrish, Edwin Iwanowicz, James Lin, Mark S. Bednarz and Bang-Chi Chen

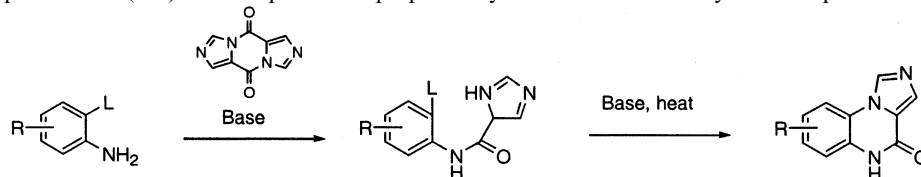
*Discovery Chemistry, Bristol-Myers Squibb Pharmaceutical Research Institute, PO Box 4000, Princeton, NJ 08543-4000, USA*Imidazo[1,5-*a*]quinoxalin-4-ones were prepared from reaction of *N*-substituted quinoxalin-2-ones with TosMIC (tosylmethyl isocyanide) reagent.

### Synthesis of imidazo[1,5-a]quinoxalin-4(5H)-one template via a novel intramolecular cyclization process

*Tetrahedron Letters* 42 (2001) 4297

Derek Norris, Ping Chen,\* Joel C. Barrish, Jagabandhu Das, Robert Moquin, Bang-Chi Chen and Peng Guo  
*Discovery Chemistry, Bristol-Myers Squibb Pharmaceutical Research Institute, PO Box 4000, Princeton, NJ 08543-4000, USA*

Imidazo[1,5-a]quinoxalin-4(5H)-one template was prepared by an intramolecular cyclization process in excellent yield.

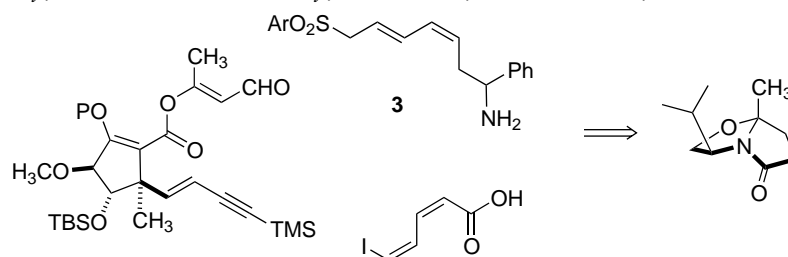


### Studies directed toward the synthesis of viridenomycin. Route 1: assembly of three advanced intermediates

*Tetrahedron Letters* 42 (2001) 4301

Albert W. Kruger and A. I. Meyers\*

*Department of Chemistry, Colorado State University, Fort Collins, CO 80523-1872, USA*

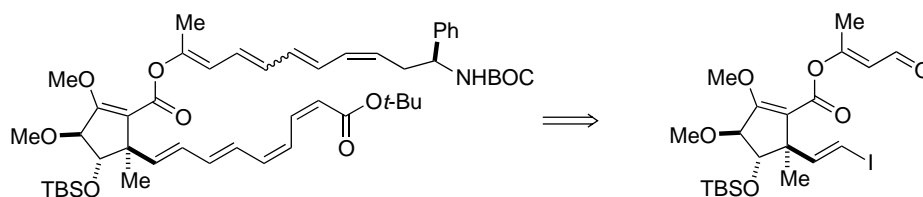


### Studies directed toward the synthesis of viridenomycin. Route 2: a second generation approach

*Tetrahedron Letters* 42 (2001) 4305

Alex G. Waterson, Albert W. Kruger and A. I. Meyers\*

*Department of Chemistry, Colorado State University, Fort Collins, CO 80523-1872, USA*

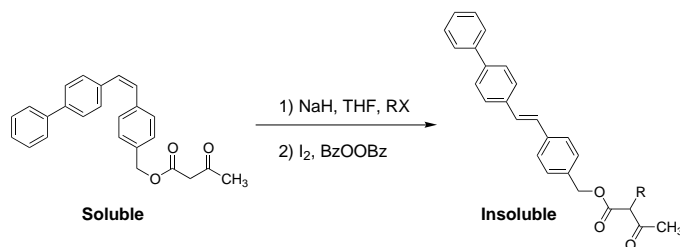


### Precipiton strategies applied to the isolation of $\alpha$ -substituted $\beta$ -ketoesters

*Tetrahedron Letters* 42 (2001) 4309

Todd Bosanac and Craig S. Wilcox\*

*Department of Chemistry and The Combinatorial Chemistry Center, University of Pittsburgh, Pittsburgh, PA 15260, USA*



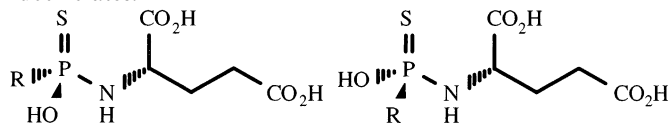
### Synthesis of individual glutamate-containing phosphonamidothionate stereoisomers

Tetrahedron Letters 42 (2001) 4313

Haiyan Lu, Ying Hu, Cindy J. Choy, Jeremy P. Mallari, Alina F. Villanueva, Annamarie F. Arrozal and Clifford E. Berkman\*

*San Francisco State University, Department of Chemistry & Biochemistry, 1600 Holloway Ave., San Francisco, CA 94132, USA*

Individual phosphonamidothioic acid diastereomers have been prepared by resolution through fractional crystallization of the intermediate 9-fluorenemethoxy phosphonamidates or through chromatographic resolution of intermediate  $\beta$ -(acylmercapto)ethyl phosphonamidothiolates.



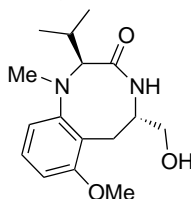
### Synthesis of 7-methoxybenzolactam-V8 using aminomercuration as a key reaction

Tetrahedron Letters 42 (2001) 4317

Sukumar Sakamuri\*

*Drug Discovery Program, Georgetown University Medical Center, 3900 Reservoir Road, NW, Washington, DC 20007-2197, USA*

7-Methoxybenzolactam-V8 was synthesized using a short synthetic route that employs aminomercuration as a key reaction.

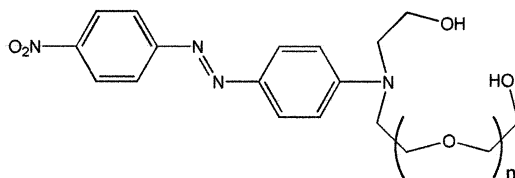


## Colourimetric detection of Hg<sup>2+</sup> by a chromogenic reagent based on methyl orange and open-chain polyazaooxaalkanes

Tetrahedron Letters 42 (2001) 4321

Felix Sancenón, Ramón Martínez-Máñez\* and Juan Soto

*Departamento de Química, Universidad Politécnica de Valencia, Camino de Vera s/n, 46071 Valencia, Spain*



### Aciphyllal—a C<sub>34</sub>-polyacetylene from *Aciphylla scott-thomsonii* (Apiaceae)

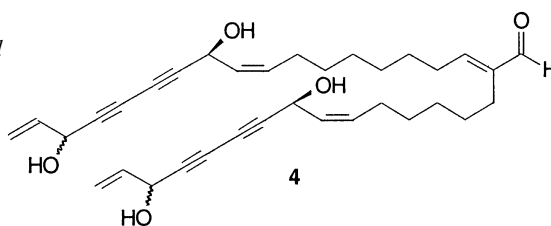
*Tetrahedron Letters* 42 (2001) 4325

Nigel B. Perry,<sup>a</sup> Elena M. Span<sup>b</sup> and Christian Zidorn<sup>b,\*</sup>

*<sup>a</sup>Plant Extracts Research Unit, New Zealand Institute for Crop & Food Research Ltd, Department of Chemistry, University of Otago, Dunedin, New Zealand*

<sup>b</sup>*Institut für Pharmazie, Abteilung Pharmakognosie,  
Leopold-Franzens-Universität, Innsbruck, Austria*

The novel dimeric polyacetylene aciphyllal has been isolated from the New Zealand subalpine plant *Aciphylla scott-thomsonii*. The structure has been established by high resolution mass spectrometry and 1D and 2D NMR spectroscopy. The compound represents the first polyacetylene from a higher plant with a chain-length exceeding C<sub>18</sub>.



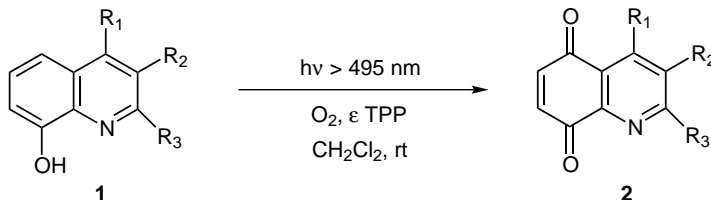
## Efficient synthesis of substituted quinoline-5,8-quinones from 8-hydroxyquinolines by photooxygenation

*Tetrahedron Letters 42 (2001) 4329*

Janine Cossy\* and Damien Belotti

*Laboratoire de Chimie Organique associé au CNRS, ESPCI, 10 rue Vauquelin, 75231 Paris Cedex 05, France*

Substituted quinoline-5,8-quinones were obtained in good yield by photooxygenation of substituted 8-hydroxyquinolines.

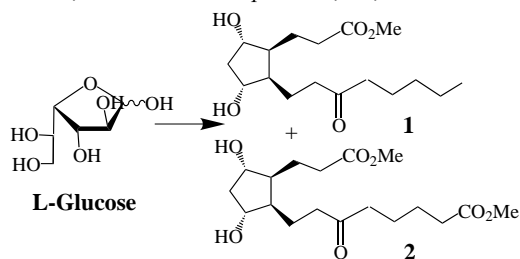


## Synthesis of the two main urinary tetranor metabolites of 15-F<sub>2t</sub>-isoprostane

*Tetrahedron Letters 42 (2001) 4333*

Thierry Durand,\* Olivier Henry, Jean-Pierre Vidal and Jean-Claude Rossi

*UMR CNRS 5074, Faculté de Pharmacie, Université Montpellier I, 15, Av. Ch. Flahault, F-34060 Montpellier cedex 02, France*



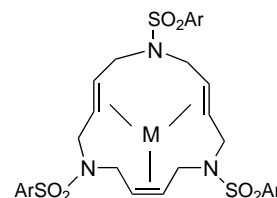
## Metal complexes of 15-membered triolefinic macrocycles. (*E,E,Z*)-1,6,11-Tris[(2,4,6-triisopropylphenyl)sulfonyl]-1,6,11-triazacyclopentadeca-3,8,13-triene and its palladium(0), platinum(0), and silver(I) complexes

*Tetrahedron Letters 42 (2001) 4337*

Jordi Cortès, Marcial Moreno-Mañas\* and Roser Pleixats

*Department of Chemistry, Universitat Autònoma de Barcelona, Cerdanyola, 08193 Barcelona, Spain*

The macrocycle forms very stable complexes with Pd(0) and Pt(0).



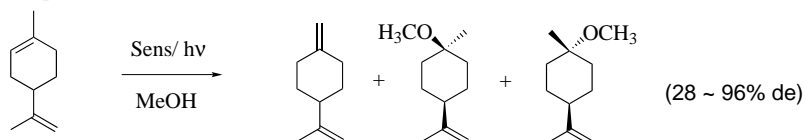
## Highly diastereoselective photoaddition of methanol to limonene

*Tetrahedron Letters 42 (2001) 4341*

Dong Suk Kim,<sup>a</sup> Sang Chul Shim,<sup>a,\*</sup> Takehiko Wada<sup>b</sup> and Yoshihisa Inoue<sup>b,\*</sup>

<sup>a</sup>*Department of Chemistry, Center for Molecular Design and Synthesis and School of Molecular Science-BK21, Korea Advanced Institute of Science and Technology, Yusung-Gu, Taejeon 305-701, South Korea*

<sup>b</sup>*Inoue Photochirogenesis Project, ERATO, JST and Department of Molecular Chemistry, Osaka University, 2-1 Yamada-oka, Suita, Osaka 565-0871, Japan*



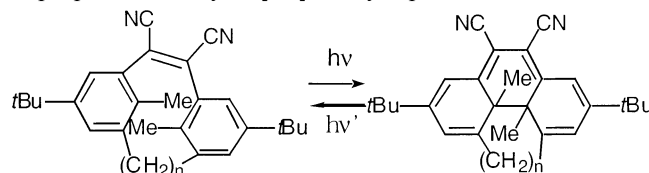
## Synthesis and photochromic properties of 1,2-dicyano[2.n]-metacyclophan-1-enes

*Tetrahedron Letters* 42 (2001) 4345

Michinori Takeshita\* and Takehiko Yamato

Department of Applied Chemistry, Faculty of Science and Engineering, Saga University, Honjo-machi 1, Saga 840-8502, Japan

Preparation and photochromic properties of dicyano[2.n]metacyclophan-1-enes are described.



## Heterogeneous Heck reaction catalyzed by Pd/C in ionic liquid

*Tetrahedron Letters* 42 (2001) 4349

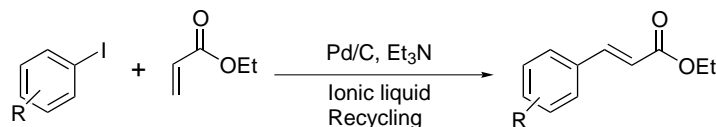
Hisahiro Hagiwara,<sup>a,\*</sup> Yumiko Shimizu,<sup>b</sup> Takashi Hoshi,<sup>b</sup> Toshio Suzuki,

<sup>b</sup> Masayoshi Ando,<sup>b</sup> Keisuke Ohkubo<sup>c</sup> and Chiaki Yokoyama<sup>c</sup>

<sup>a</sup>Graduate School of Science and Technology, Niigata University, 8050, 2-nocho, Ikarashi, Niigata 950-2181, Japan

<sup>b</sup>Faculty of Engineering, Niigata University, 8050, 2-nocho, Ikarashi, Niigata 950-2181, Japan

<sup>c</sup>Institute for Chemical Reaction Science, Tohoku University, Katahira 2-chome, Aoba-ku, Sendai 980-8577, Japan

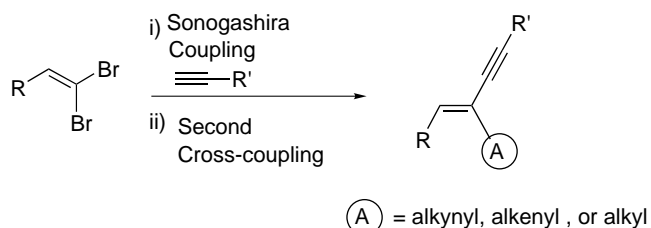


## Stereocontrolled synthesis of branched enyne by stepwise cross-coupling reactions of 1,1-dibromo-1-alkenes

*Tetrahedron Letters* 42 (2001) 4353

Jun'ichi Uenishi\* and Katsuaki Matsui

Kyoto Pharmaceutical University, Misasagi, Yamashina, Kyoto 607-8412, Japan



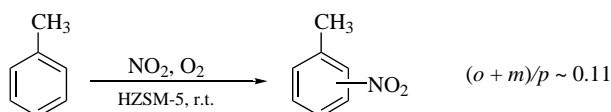
## Zeolite-assisted nitration of neat toluene and chlorobenzene with a nitrogen dioxide/molecular oxygen system. Remarkable enhancement of *para*-selectivity

*Tetrahedron Letters* 42 (2001) 4357

Xinhua Peng,<sup>a</sup> Hitomi Suzuki<sup>a,\*</sup> and Chunxu Lu<sup>b</sup>

<sup>a</sup>Department of Chemistry, School of Science, Kwansei Gakuin University, Uegahara, Nishinomiya 662-8501, Japan

<sup>b</sup>Department of Chemistry, School of Chemical Engineering, Nanjing University of Science and Technology, Xiao Ling Wei, Nanjing 210094, China



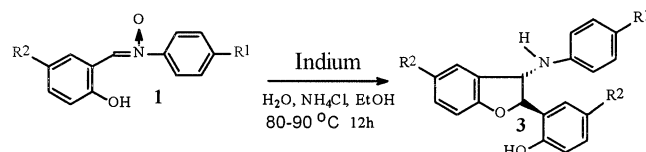
**Indium-mediated tandem dimerization and cyclization of nitrones and aldimines to 3-arylamino dihydrobenzofurans under aqueous conditions**

*Tetrahedron Letters 42 (2001) 4361*

Arumugasamy Jeevanandam and Yong-Chien Ling\*

*Department of Chemistry, National Tsing Hua University, Hsinchu 300, Taiwan*

Deoxygenative reductive coupling and subsequent cyclization of nitrones to 3-arylamino dihydrobenzofurans.



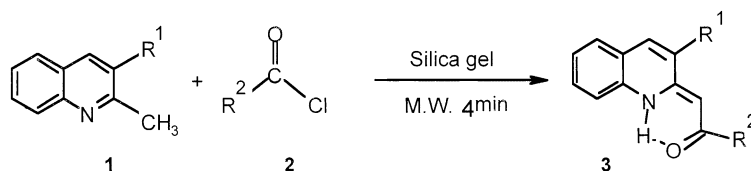
**A novel method for the synthesis of 2-ketomethylquinolines under solvent-free conditions using microwave irradiation**

*Tetrahedron Letters 42 (2001) 4363*

Hossein Loghmani-Khouzani,\* Majid M. Sadeghi, Javad Safari and Alireza Minaeifar

*Department of Chemistry, Faculty of Sciences, University of Isfahan, Isfahan 81744, IR Iran*

Reactions of 2-methylquinoline with acyl chlorides lead to 2-ketomethylquinolines.



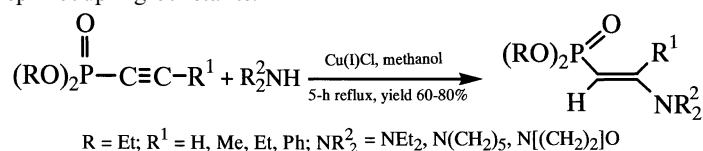
**Addition of secondary amines to alkynylphosphonate**

*Tetrahedron Letters 42 (2001) 4365*

Anna E. Panarina, Alla V. Dogadina, Valentin I. Zakharov and Boris I. Ionin\*

*Laboratory of Organophosphorus Chemistry, Organic Chemistry Department, St. Petersburg State Technological Institute (Technical University), 26 Moskovskii Prospekt, St. Petersburg 198013, Russia*

The Cu(I) salt-catalyzed addition of secondary amines proceeds regio- and stereoselectively, as is proven by the values of vicinal  $^{13}\text{C}$ - $^{31}\text{P}$  NMR spin-spin coupling constants.



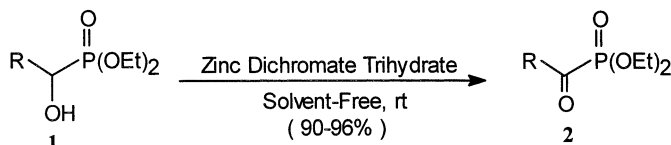
**High yield preparation of  $\alpha$ -ketophosphonates by oxidation of  $\alpha$ -hydroxyphosphonates with zinc dichromate trihydrate ( $\text{ZnCr}_2\text{O}_7 \cdot 3\text{H}_2\text{O}$ ) under solvent-free conditions**

*Tetrahedron Letters 42 (2001) 4369*

Habib Firouzabadi,\* Nasser Iranpoor,\* Sara Sobhani and Ali-Reza Sardarian

*Department of Chemistry, College of Sciences, Shiraz University, Shiraz 71454, Iran*

Oxidation;  $\alpha$ -hydroxyphosphonate;  $\alpha$ -ketophosphonate; zinc dichromate trihydrate.



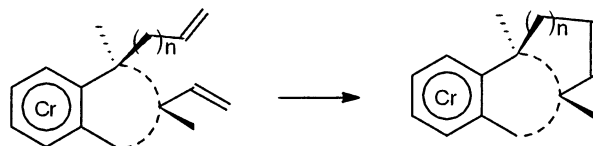
### Assembling monocyclic, spirocyclic and fused carbocycles by ring-closing metathesis on an arene–chromium template

*Tetrahedron Letters 42 (2001) 4373*

Bikash C. Maity, Vishwanath M. Swamy and Amitabha Sarkar\*

*Divisions of Organic Chemistry (Synthesis), National Chemical Laboratory, Pune 411008, India*

A variety of diene precursors assembled stereoselectively on an arene–chromium template underwent facile ring-closing metathesis by ruthenium catalysis at ambient temperature to afford cyclic compounds of varying degrees of complexity in high yields.



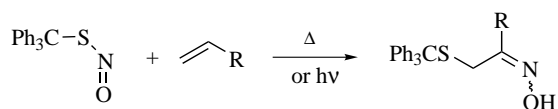
### Studies on the intermolecular free radical addition of thionitrites to alkenes: a convenient method for the preparation of $\alpha$ -tritylthio oximes and related derivatives

*Tetrahedron Letters 42 (2001) 4377*

Marta Cavero,<sup>a</sup> William B. Motherwell<sup>a,\*</sup> and Pierre Potier<sup>b</sup>

<sup>a</sup>*Department of Chemistry, Christopher Ingold Laboratories, University College London, 20 Gordon Street, London WC1H 0AJ, UK*

<sup>b</sup>*Institut de Chimie des Substances Naturelles, CNRS, 91198 Gif-sur-Yvette, France*

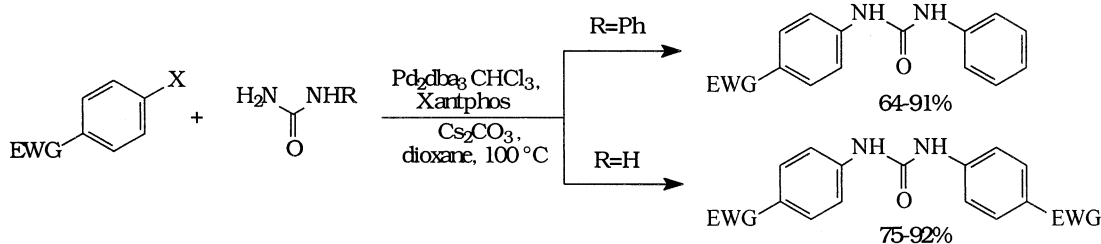


### Palladium-catalyzed reaction of aryl halides with ureas

*Tetrahedron Letters 42 (2001) 4381*

Galina A. Artamkina, Alexey G. Sergeev and Irina P. Beletskaya\*

*Moscow State University, Chemistry Department, 119899, Leniskie Gory, Moscow, Russia*

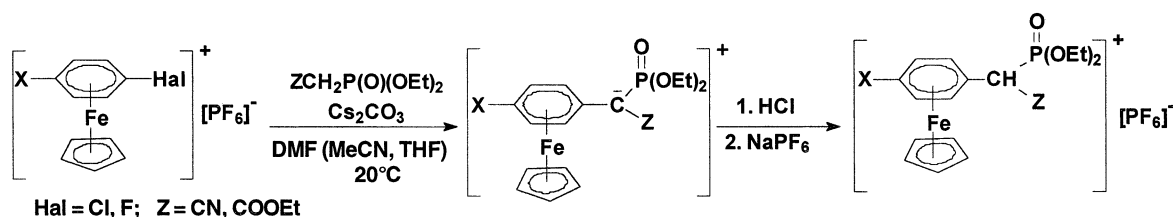


### Arylation of phosphoryl-stabilized carbanions with metal $\pi$ -complexes of aryl chlorides and fluorides

*Tetrahedron Letters 42 (2001) 4385*

Galina A. Artamkina, Petr K. Sazonov and Irina P. Beletskaya\*

*Moscow State University, Chemistry Department, 119899, Leniskie Gory, Moscow, Russia*

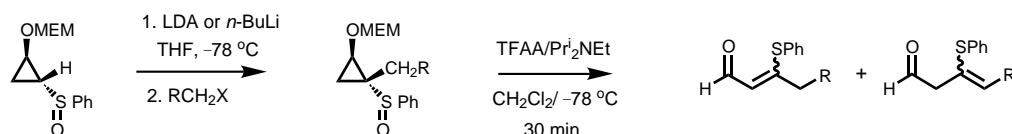


### The Pummerer-type reaction mediated ring-opening of 2-alkyl substituted 1-[(2-methoxyethoxy)methoxy]-2-(phenylsulfinyl) cyclopropanes

*Tetrahedron Letters 42 (2001) 4389*

Manat Pohmakotr,\* Panawan Moosophon, Somchai Pisutjaroenpong, Patoomratana Tuchinda and Vichai Reutrakul

*Department of Chemistry, Faculty of Science, Mahidol University, Rama 6 Road, Bangkok 10400, Thailand*

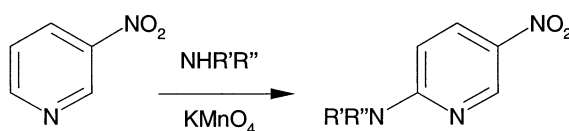


### The oxidative amination of 3-nitropyridines

*Tetrahedron Letters 42 (2001) 4393*

Jan M. Bakke\* and Harald Svensen

*Department of Chemistry, The Norwegian University of Science and Technology, Sem Sælandsvei 8, NO-7491 Trondheim, Norway*

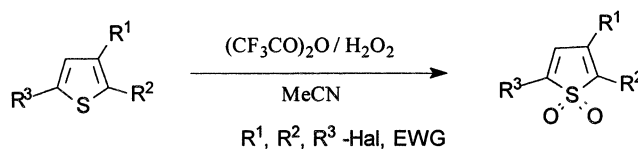


### A facile route to thiophene-1,1-dioxides bearing electron-withdrawing groups

*Tetrahedron Letters 42 (2001) 4397*

Valentine G. Nenajdenko,\* Andrew E. Gavryushin and Elizabeth S. Balenkova

*Department of Chemistry, Moscow State University, 119899 Moscow, Russia*



### Stereoselective synthesis of the 5'-aminofuranoside part of polyoxins via (3,3)-sigmatropic rearrangement of allylic thiocyanates

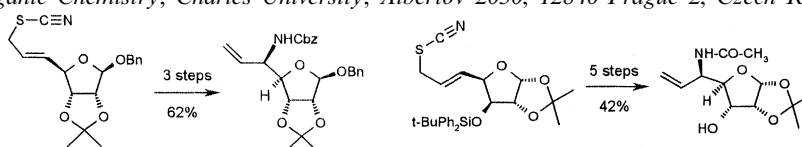
*Tetrahedron Letters 42 (2001) 4401*

Jozef Gonda,<sup>a,\*</sup> Miroslava Martinková,<sup>a</sup> Martin Walko,<sup>a</sup> Eva Zavacká,<sup>a</sup> Miloš Buděšínský<sup>b</sup> and Ivana Císařová<sup>c</sup>

<sup>a</sup>Department of Organic Chemistry, P. J. Šafárik University, Moyzesova 11, 04167 Košice, Slovak Republic

<sup>b</sup>Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic, 16610 Prague 6, Czech Republic

<sup>c</sup>Department of Inorganic Chemistry, Charles University, Albertov 2030, 12840 Prague 2, Czech Republic



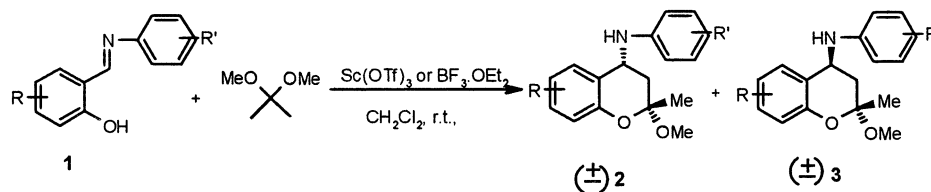


### Sc(OTf)<sub>3</sub>-catalyzed diastereoselective synthesis of 3,4-dihydro-4-amino-2H-1-benzopyrans

*Tetrahedron Letters* 42 (2001) 4405

J. S. Yadav,<sup>\*</sup> B. V. Subba Reddy, K. Chandra Sekhar and V. Geetha

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



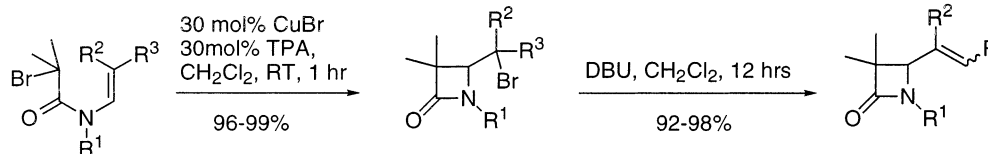
### Efficient $\beta$ -lactam synthesis via 4-*exo* atom transfer radical cyclisation using CuBr(tripyriddyamine) complex

*Tetrahedron Letters* 42 (2001) 4409

Andrew J. Clark,<sup>a,\*</sup> Gary M. Battle<sup>a</sup> and Andrew Bridge<sup>b</sup>

<sup>a</sup>Department of Chemistry, University of Warwick, Coventry CV4 7AL, UK

<sup>b</sup>Aventis Pharma Ltd, Rainham Road South, Dagenham, Essex RM10 7XS, UK



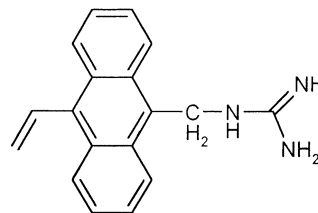
### 9-(Guanidinomethyl)-10-vinyanthracene: a suitable fluorescent monomer for MIPs

*Tetrahedron Letters* 42 (2001) 4413

Huiqi Zhang, Willem Verboom<sup>\*</sup> and David N. Reinhoudt

*Laboratory of Supramolecular Chemistry and Technology, MESA<sup>+</sup> Research Institute, University of Twente, PO Box 217, 7500 AE Enschede, The Netherlands*

9-(Guanidinomethyl)-10-vinyanthracene, showing high affinity for the complexation of carboxylates, is a promising fluorescent monomer for molecularly imprinted polymers (MIPs).



### On the cycloaddition of arylphosphine oxides with dimethyl acetylenedicarboxylate

*Tetrahedron Letters* 42 (2001) 4417

György Keglevich,<sup>a,\*</sup> Tamás Körtvélyesi,<sup>b</sup> Henrietta Forintos,<sup>a</sup> Annamária Tamás,<sup>a</sup> Krisztina Ludányi,<sup>c</sup> Vladislav Izvekov<sup>a</sup> and László Töke<sup>a</sup>

<sup>a</sup>Budapest University of Technology and Economics, 1521 Budapest, Hungary

<sup>b</sup>Department of Physical Chemistry, University of Szeged, 6701 Szeged, Hungary

<sup>c</sup>Hungarian Academy of Sciences, Chemical Research Center, 1525 Budapest, Hungary

[2+2] Cycloaddition of the title compounds is general affording oxaphosphetes with a highly strained ring.

