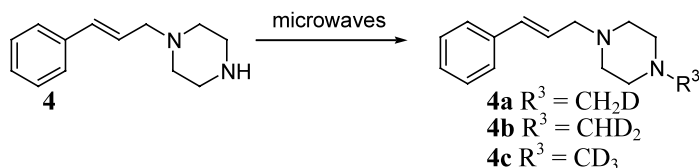


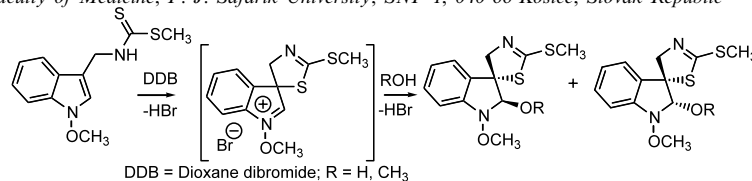
### Development of a microwave-enhanced isotopic labelling procedure based on the Eschweiler–Clarke methylation reaction

Tetrahedron Letters 43 (2002) 9487

John R. Harding,<sup>a</sup> John R. Jones,<sup>b,\*</sup> Shui-Yu Lu<sup>b</sup> and Robin Wood<sup>a</sup><sup>a</sup>AstraZeneca UK Ltd, Mereside, Alderley Park, Macclesfield, Cheshire SK10 4TG, UK<sup>b</sup>Department of Chemistry, University of Surrey, Guildford, Surrey GU2 7XH, UK

### Spirocyclization strategy toward indole phytoalexins. The first synthesis of (±)-1-methoxyspirobrassinin, (±)-1-methoxyspirobrassinol, and (±)-1-methoxyspirobrassinol methyl ether

Tetrahedron Letters 43 (2002) 9489

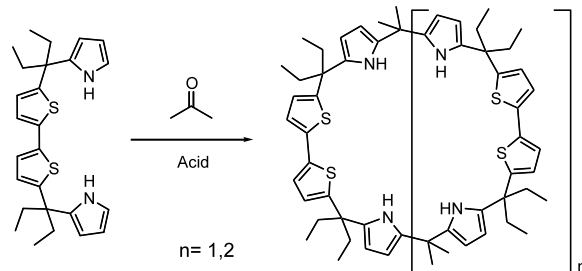
Peter Kutschy,<sup>a,\*</sup> Mojmír Suchý,<sup>a</sup> Kenji Monde,<sup>b</sup> Nobuyuki Harada,<sup>c</sup> Renata Marušková,<sup>a</sup> Zuzana Čurillová,<sup>a</sup> Milan Dzurilla,<sup>a</sup> Mariana Miklošová,<sup>a</sup> Roman Mezencev<sup>a</sup> and Ján Mojžiš<sup>d</sup><sup>a</sup>Institute of Chemical Sciences, Faculty of Science, P. J. Šafárik University, Moyzesova 11, 041 67 Košice, Slovak Republic<sup>b</sup>Division of Biological Sciences, Graduate School of Science, Hokkaido University, Kita 10, Nishi 8, Sapporo 060-0810, Japan<sup>c</sup>Institute of Multidisciplinary Research for Advanced Materials, 2-1-1, Katahira, Aoba-ku, Sendai 980-8577, Japan<sup>d</sup>Institute of Pharmacology, Faculty of Medicine, P. J. Šafárik University, SNP 1, 040 66 Košice, Slovak Republic

### Bithiophene-containing super-expanded calixpyrrole analogues

Tetrahedron Letters 43 (2002) 9493

Eun Cheol Lee, Yong-Kwang Park, Jin-Ho Kim, Hoon Hwang, Yong-Rok Kim and Chang-Hee Lee\*

Department of Chemistry &amp; Institute of Basic Science, Kangwon National University, Chuncheon 200-701, Republic of Korea

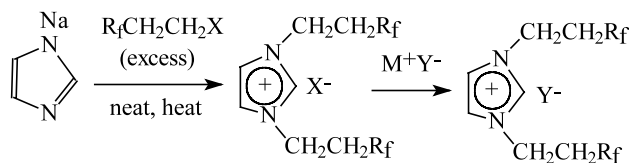


### New dense fluoroalkyl-substituted imidazolium ionic liquids

Tetrahedron Letters 43 (2002) 9497

Rajendra P. Singh, Sudha Manandhar and Jean'ne M. Shreeve\*

Department of Chemistry, University of Idaho, Moscow, ID 83844-2343, USA

R<sub>f</sub> = CF<sub>3</sub>, CH<sub>2</sub>F;X = I, Br; M = K, Li; Y = PF<sub>6</sub>, N(SO<sub>2</sub>CF<sub>3</sub>)<sub>2</sub>

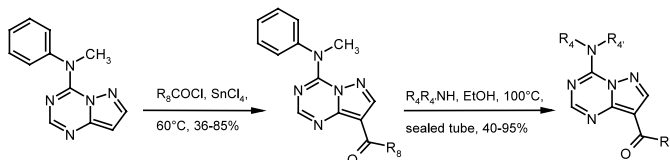
## Efficient synthesis of 8-substituted pyrazolo[1,5-a]-1,3,5-triazines by regioselective acylation

Tetrahedron Letters 43 (2002) 9501

Pierre Raboisson,<sup>a,\*</sup> Dominique Schultz,<sup>a</sup> Claire Lugnier<sup>b</sup> and Jean-Jacques Bourguignon<sup>a</sup>

<sup>a</sup>Laboratoire de Pharmacochimie de la Communication Cellulaire (CNRS, UMR 7081), Faculté de Pharmacie, 74 route du Rhin, BP24, 67401 Illkirch Cedex, France

<sup>b</sup>Laboratoire de Pharmacologie et de Physico-Chimie des Interactions Cellulaires et Moléculaires (CNRS, UMR 7034), Faculté de Pharmacie, 74 route du Rhin, BP24, 67401 Illkirch Cedex, France



## Cu(I)-catalyzed allylic amination of olefins

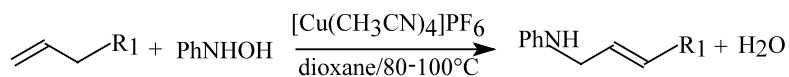
Tetrahedron Letters 43 (2002) 9505

Gregg A. Hogan,<sup>a</sup> August A. Gallo,<sup>a</sup> Kenneth M. Nicholas<sup>b</sup> and Radhey S. Srivastava<sup>a,\*</sup>

<sup>a</sup>Department of Chemistry, University of Louisiana at Lafayette, Lafayette, LA 70504, USA

<sup>b</sup>Department of Chemistry and Biochemistry, University of Oklahoma, Norman, OK 73019, USA

The copper(I) complex  $[Cu(CH_3CN)_4]PF_6$  catalyzes the allylic amination of alkenes by aryl hydroxylamines in fair to moderate yields and with high regioselectivity. Trapping experiments indicate that free  $PhNO$  is not an intermediate in these reactions.

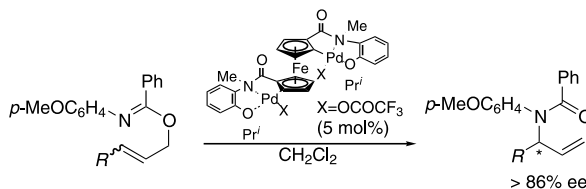


## Preparation of bis[palladacycles] and application to asymmetric aza-Claisen rearrangement of allylic imidates

Tetrahedron Letters 43 (2002) 9509

Jahyo Kang,<sup>\*</sup> Kyoung Han Yew, Tae Hyung Kim and Dae Hyuk Choi

Department of Chemistry, Sogang University, Seoul 121-742, Republic of Korea

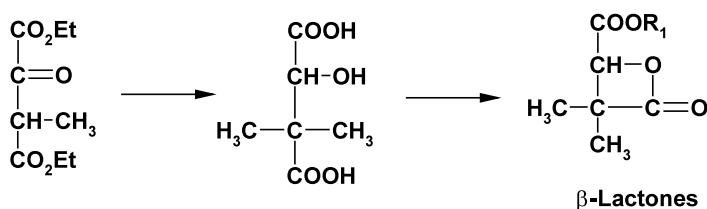


## Synthesis of novel $\alpha,\alpha',\beta$ -trisubstituted $\beta$ -lactones

Tetrahedron Letters 43 (2002) 9513

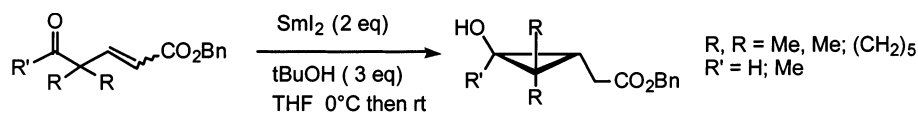
Christel Barbaud,<sup>\*</sup> Mohamed Guerrouache and Philippe Guérin

Laboratoire de Recherche sur les Polymères, UMR C7581 CNRS-Université Paris XII, Val de Marne, 2-8 Rue Henri Dunant, F-94320 Thiais, France

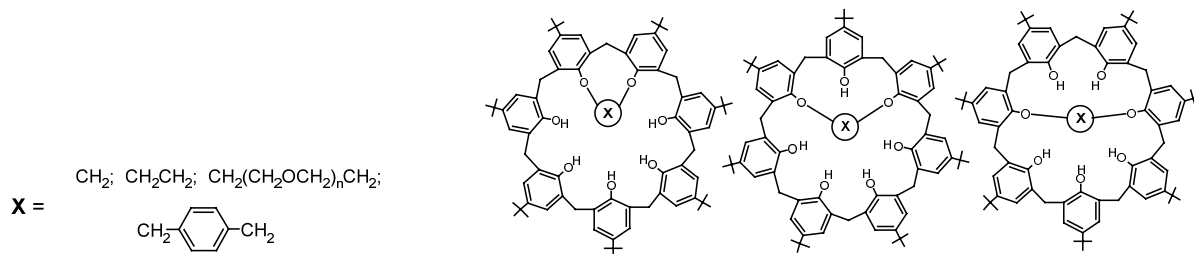


**Diastereoselective SmI<sub>2</sub>-mediated cyclisation of  $\delta$ -oxo- $\alpha,\beta$ -unsaturated esters to cyclopropanols**

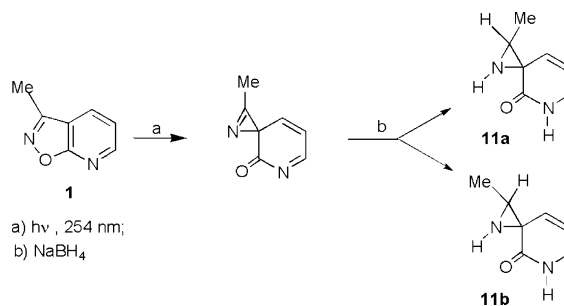
Hélène Villar and François Guibé\*

*Institut de Chimie Moléculaire et des Matériaux d'Orsay, Laboratoire de Catalyse Moléculaire, ESA-8075 Bât. 420, Université Paris-Sud, 91405 Orsay, France***Regioselective intramolecular bridging of *p*-*tert*-butylcalix[7]arene**

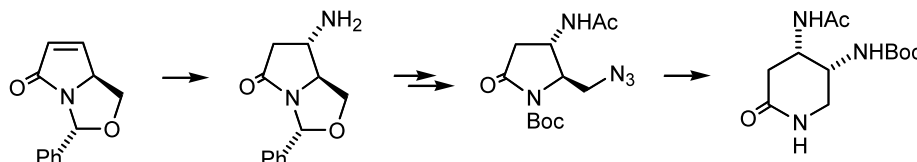
Marco Martino, Carmine Gaeta, Luisa Gregoli and Placido Neri\*

*Dipartimento di Chimica, Università di Salerno, Via S. Allende 43, I-84081 Baronissi (SA), Italy***Trapping of photochemical intermediates as a tool in organic synthesis. Preparation of spiroaziridinopyridones, a new heterocyclic system**

Donato Donati, Stefania Fusi and Fabio Ponticelli\*

*Department of Chemistry, University of Siena, 53100 Siena, Italy***Diastereoselective synthesis of enantiopure differentially protected *cis*-4,5-diaminopiperidin-2-one through intramolecular transamidation**

Nicole Langlois\*

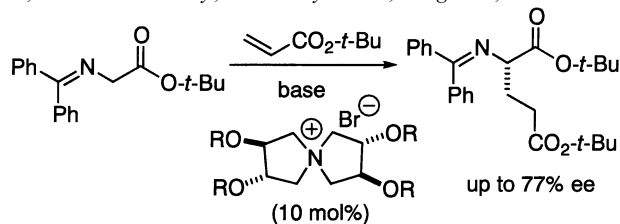
*Institut de Chimie des Substances Naturelles, CNRS, 91198 Gif-sur-Yvette, France*Highly diastereoselective synthesis of enantiopure differentially protected *cis*-4,5-diaminopiperidin-2-one was achieved from an unsaturated bicyclic  $\gamma$ -lactam derived from (*S*)-pyroglutaminol, through intramolecular transamidation reaction as the main step.

## Phase-transfer-catalyzed asymmetric Michael reaction using newly-prepared chiral quaternary ammonium salts derived from L-tartrate

Shigeru Arai,\* Riichiro Tsuji and Atsushi Nishida\*

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

Tetrahedron Letters 43 (2002) 9535

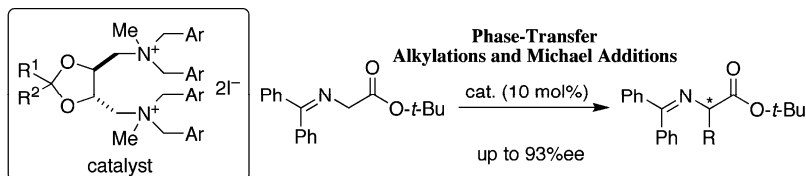


## Development of new asymmetric two-center catalysts in phase-transfer reactions

Tomoyuki Shibuguchi, Yuhei Fukuta, Yoko Akachi, Akihiro Sekine, Takashi Ohshima and Masakatsu Shibasaki\*

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

Tetrahedron Letters 43 (2002) 9539

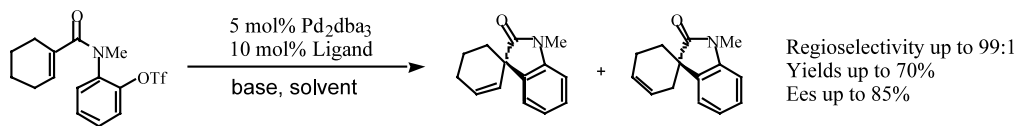


## A comparative study of diphosphine and phosphinamine palladium complexes on a new substrate for the intramolecular asymmetric Heck reaction

Denis Kiely and Patrick J. Guiry\*

Centre for Synthesis and Chemical Biology, Conway Institute of Biomolecular and Biomedical Research, Department of Chemistry, University College Dublin, Belfield, Dublin 4, Ireland

Tetrahedron Letters 43 (2002) 9545

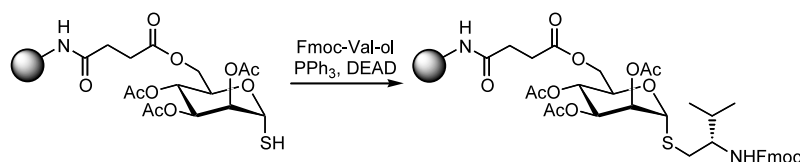


## Solid-phase synthesis of C-terminal thio-linked glycopeptides

John P. Malkinson\* and Robert A. Falconer

Department of Pharmaceutical and Biological Chemistry, The School of Pharmacy, University of London, 29-39 Brunswick Square, London WC1N 1AX, UK

Tetrahedron Letters 43 (2002) 9549



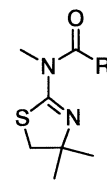
## *N*-Acyl-4,5-dihydro-4,4-dimethyl-*N*-methyl-2-thiazolamine as a chemoselective acylating agent

Tetrahedron Letters 43 (2002) 9553

Taek Hyeon Kim\* and Garp-Yeol Yang

Faculty of Applied Chemistry, Chonnam National University, Gwangju 500-757, Republic of Korea

2-Methylamino-2-thiazoline reacted with alkyl acyl halides to produce *N*-acyl-2-methylamino-2-thiazolines, *exo*-acylated product regioselectively, which were found to be highly chemoselective acylating agents for primary amine in the presence of secondary amine and for the less sterically hindered of two different primary amines.

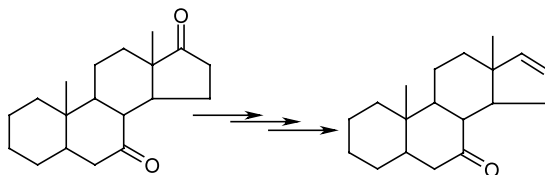


## Synthesis and preliminary odour evaluation of 5 $\alpha$ -androst-16-en-7-one: a new androstenone analogue

Tetrahedron Letters 43 (2002) 9559

John A. S. Adams, Scott Clunas and Alan B. Turner\*

Department of Chemistry, University of Aberdeen, Meston Walk, Aberdeen AB24 3UE, Scotland, UK

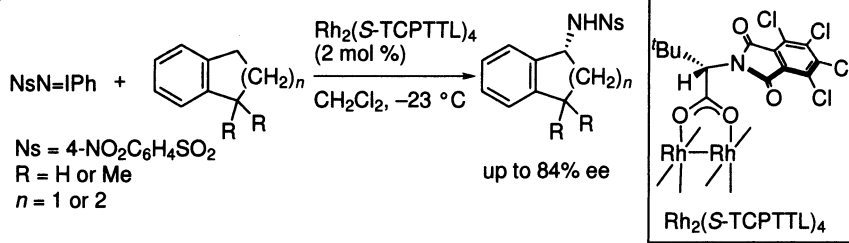


## Dirhodium(II) tetrakis[*N*-tetrachlorophthaloyl-(*S*)-*tert*-leucinate]: a new chiral Rh(II) catalyst for enantioselective amidation of C–H bonds

Tetrahedron Letters 43 (2002) 9561

Minoru Yamawaki, Hideyuki Tsutsui,  
Shinji Kitagaki, Masahiro Anada  
and Shunichi Hashimoto\*

Graduate School of Pharmaceutical  
Sciences, Hokkaido University,  
Sapporo 060-0812, Japan



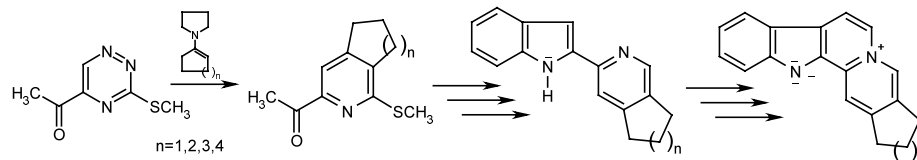
## General route to the total synthesis of sempervirine analogues containing modified E rings, potential cytostatics

Tetrahedron Letters 43 (2002) 9565

Teodozja Lipińska\*

Institute of Chemistry, University of Podlasie, 3 Maja 54, 08-110 Siedlce, Poland

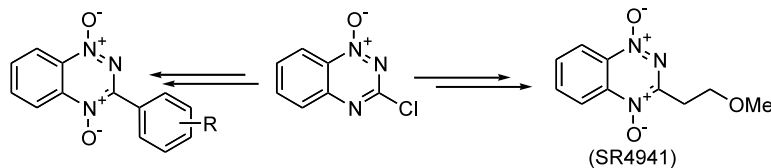
A novel methodology for the total synthesis of pentacyclic indolo[2,3-*a*]quinolizinium systems with different E rings has been developed from 5-acetyl-3-methylsulfanyl-1,2,4-triazine.



### New and versatile syntheses of 3-alkyl- and 3-aryl-1,2,4-benzotriazine 1,4-dioxides: preparation of the bioreductive cytotoxins SR 4895 and SR 4941

Michael P. Hay\* and William A. Denny

Auckland Cancer Society Research Centre, Faculty of Medical and Health Sciences, The University of Auckland, Private Bag 92019, Auckland, New Zealand

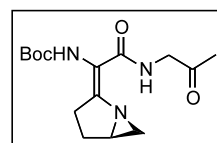
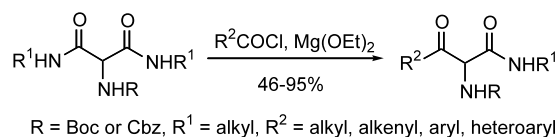


### Concise route to $\alpha$ -acylamino- $\beta$ -keto amides: application to the synthesis of a simplified azinomycin A analogue

Jean-Yves Goujon and Michael Shipman\*

School of Chemistry, University of Exeter, Stocker Road, Exeter, EX4 4QD, UK

A new general method for the synthesis of  $\alpha$ -acylamino- $\beta$ -keto amides is described. This method is used to produce an azinomycin A analogue (see box insert).

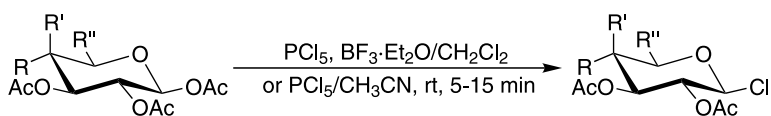


### Reaction of 1,2-*trans*-glycosyl acetates with phosphorus pentachloride: new efficient approach to 1,2-*trans*-glycosyl chlorides

Farid M. Ibatullin<sup>a,\*</sup> and Stanislav I. Selivanov<sup>b</sup>

<sup>a</sup>Biophysics Division, Petersburg Nuclear Physics Institute, Gatchina, 188300, Russia

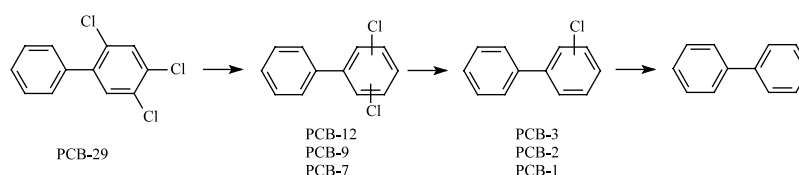
<sup>b</sup>Chemical Department, Petersburg State University, St. Petersburg, Russia



### A new advanced method for heterogeneous catalysed dechlorination of polychlorinated biphenyls (PCBs) in hydrocarbon solvent

J. Gonzalo Rodríguez\* and Antonio Lafuente

Departamento de Química Orgánica, Universidad Autónoma, Cantoblanco 28049 Madrid, Spain



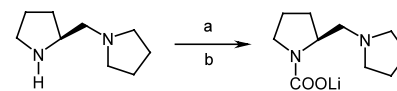
## Synthesis of chiral lithium carbamates from (*S*)-2-(*N,N*-dialkylaminomethyl)pyrrolidines and (*S*)-methoxymethylpyrrolidine

*Tetrahedron Letters* 43 (2002) 9585

Uwe Köhn and Ernst Anders\*

*Institut für Organische Chemie und Makromolekulare Chemie der Friedrich-Schiller-Universität, Lessingstrasse 8, D-07743 Jena, Germany*

A convenient synthesis of chiral lithium *N*-alkyl carbamates **1a–4a** from chiral pyrrolidines **1–4**, LiH and CO<sub>2</sub> is described. The yields are good to excellent. A combined experimental (<sup>1</sup>H, <sup>6</sup>Li-HOESY, cryoscopy) and theoretical study (B3LYP/6-311++G(d,p)) succeeded in assigning the predominant solution state structure of **1a**.



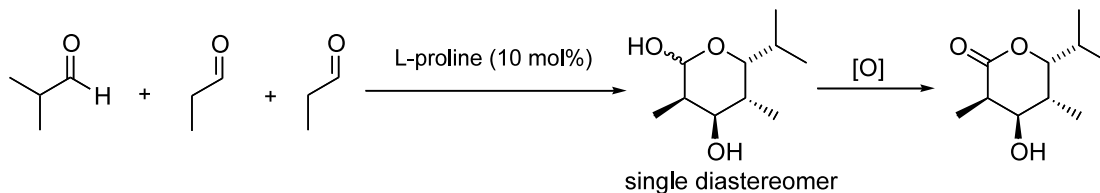
a) LiH, THF, 50°C, 1d,  
b) CO<sub>2</sub>, 25 °C, 1h.

## Proline-catalyzed asymmetric assembly reactions: enzyme-like assembly of carbohydrates and polyketides from three aldehyde substrates

*Tetrahedron Letters* 43 (2002) 9591

Naidu S. Chowdari, D. B. Ramachary, Armando Córdova and Carlos F. Barbas, III\*

*The Skaggs Institute for Chemical Biology and the Department of Molecular Biology, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037, USA*

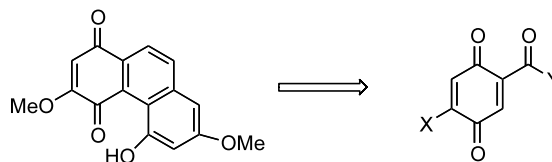


## A direct synthesis of denbinobin

*Tetrahedron Letters* 43 (2002) 9597

George A. Kraus\* and Ning Zhang

*Department of Chemistry, Iowa State University, Ames, IA 50011, USA*

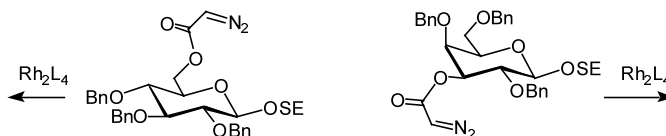


## Catalytic conversions of diazosugars

*Tetrahedron Letters* 43 (2002) 9601

Hilbert M. Branderhorst, Johan Kemmink, Rob M. J. Liskamp and Roland J. Pieters\*

*Department of Medicinal Chemistry, Utrecht Institute for Pharmaceutical Sciences, Utrecht University PO Box 80082, 3508 TB Utrecht, The Netherlands*

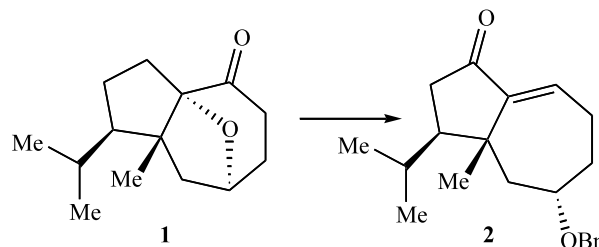


### Synthesis of the hydroazulene portion of guanacastepene A using a [2.3]sigmatropic sulfoxide rearrangement: observations on silyl enol ether electrophilic chemistry for the introduction of the C-13 hydroxyl group

Philip Magnus\* and Cyril Ollivier

Department of Chemistry and Biochemistry, University of Texas at Austin, Austin, TX 78712, USA

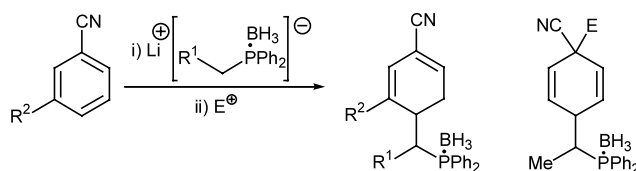
The conversion of **1** into **2** is described, and the reactions of enol derivatives of **2** are discussed.



### Synthesis of functionalised cyclohexadienes through addition of lithiated phosphine borane complexes to benzonitriles

Carmen M. Andújar Sánchez, M<sup>a</sup> José Iglesias and Fernando López Ortiz\*

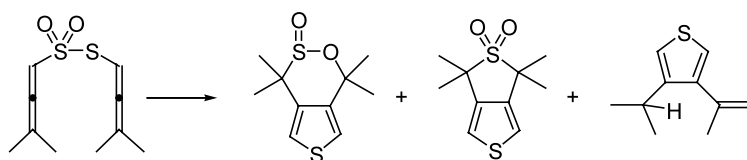
Área de Química Orgánica, Universidad de Almería, Carretera de Sacramento, 04120 Almería, Spain



### Thermal rearrangements of bis-allenyl thiosulfonates. Synthesis of novel thienothiophene and thieno-oxathiine derivatives

Mihail L. Birsá, Marina Cherkinsky and Samuel Braverman\*

Department of Chemistry, Bar-Ilan University, Ramat-Gan 52900, Israel



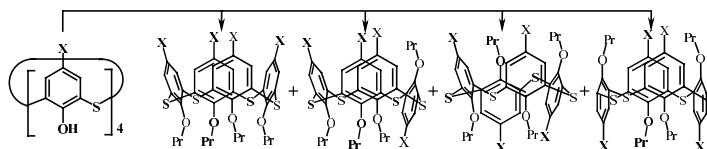
### Alkylation of thiacalix[4]arenes

Pavel Lhoták,<sup>a,\*</sup> Michal Himl,<sup>a</sup> Ivan Stibor<sup>a</sup> and Hana Petříčková<sup>b</sup>

<sup>a</sup>Department of Organic Chemistry, Institute of Chemical Technology, Technická 5, 166 28 Prague 6, Czech Republic

<sup>b</sup>Department of Solid State Chemistry, Institute of Chemical Technology, Technická 5, 166 28 Prague 6, Czech Republic

Thiacalix[4]arenes were alkylated using procedures well established in 'classical' calixarene chemistry. The conformational outcome of these reactions indicates that the conformational preferences of thiacalixarenes are surprisingly different from those of calix[4]arenes.



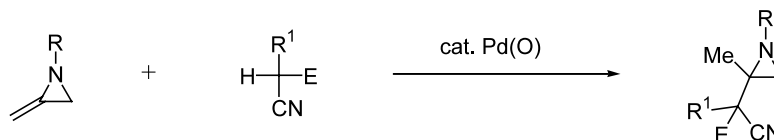


### Palladium-catalyzed hydrocarbonation of methyleneaziridines with carbon pronucleophiles

Tetrahedron Letters 43 (2002) 9625

Byoung Ho Oh, Itaru Nakamura and Yoshinori Yamamoto\*

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

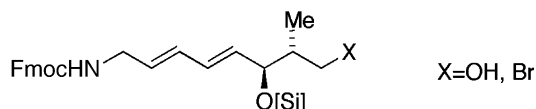


### Synthesis of the middle fragment of oxazolomycin

Tetrahedron Letters 43 (2002) 9629

Zhaoyang Wang and Mark G. Moloney\*

The Department of Chemistry, Dyson Perrins Laboratory, The University of Oxford, South Parks Road, Oxford OX1 3QY, UK



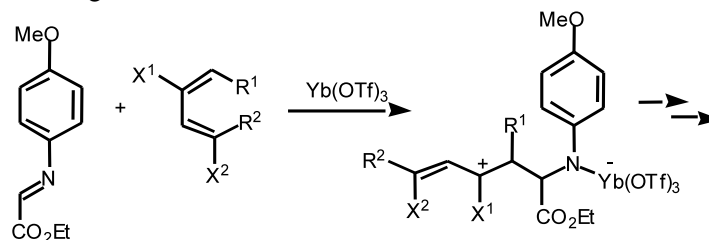
### Evidence for the non-concerted [4+2]-cycloaddition of *N*-aryl imines when acting as both dienophiles and dienes under Lewis acid-catalysed conditions

Tetrahedron Letters 43 (2002) 9633

Stephen Hermitage,<sup>a</sup> David A. Jay<sup>b</sup> and Andrew Whiting<sup>b,\*</sup>

<sup>a</sup>GlaxoSmithKline Medicines Research Centre, Gunnels Wood Road, Stevenage, Herts SG1 2NY, UK

<sup>b</sup>Department of Chemistry, Science Laboratories, University of Durham, South Road, Durham DH1 3LE, UK



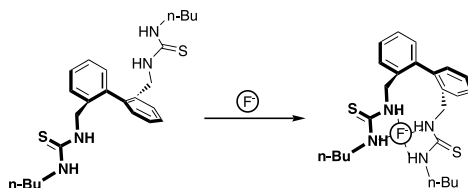
### A new fluorescent fluoride chemosensor based on conformational restriction of a biaryl fluorophore

Tetrahedron Letters 43 (2002) 9637

Dong Hoon Lee,<sup>a</sup> Ja Hyun Im,<sup>a</sup> Jae-Han Lee<sup>a</sup> and Jong-In Hong<sup>a,b,\*</sup>

<sup>a</sup>School of Chemistry, College of Natural Sciences, Seoul National University, Seoul 151-747, South Korea

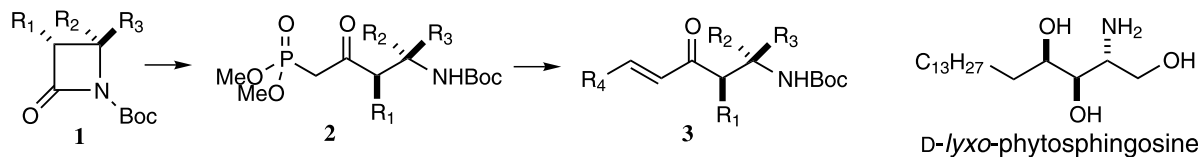
<sup>b</sup>Center for Molecular Design and Synthesis, KAIST, Taejeon 305-701, South Korea



### Facile transformation of 2-azetidiones to unsaturated ketones: application to the formal synthesis of sphingosine and phytosphingosine

Hyeon Kyu Lee,\* Eun-Kyung Kim and Chwang Siek Pak\*

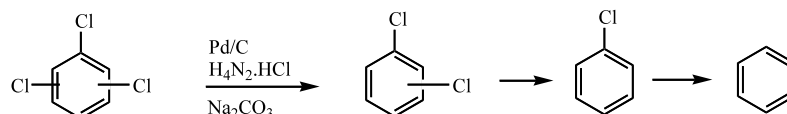
Bio-Organic Science Division, Korea Research Institute of Chemical Technology, PO Box 107, Yusong, Taejon 305-606, South Korea



### A new advanced method for heterogeneous catalysed dechlorination of 1,2,3-, 1,2,4-, and 1,3,5-trichlorobenzenes in hydrocarbon solvent

J. Gonzalo Rodríguez\* and Antonio Lafuente

Departamento de Química Orgánica, Universidad Autónoma, Cantoblanco, 28049 Madrid, Spain



### An unprecedented outcome of the lithium–ammonia reduction of enones: the formation of cyclopropanols

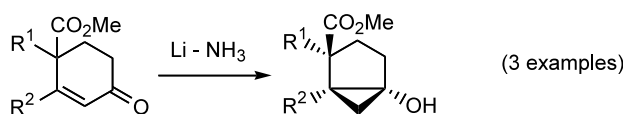
Françoise Dumas,<sup>a</sup> Cyrille Thominaux,<sup>a</sup> Christine Miet,<sup>a</sup> Jean d'Angelo,<sup>a,\*</sup> Didier Desmaële,<sup>a</sup> Mohammed Nour,<sup>b</sup> Christian Cavé,<sup>b</sup> Georges Morgant<sup>c</sup> and Marie-Elise Tran Huu-Dau<sup>d</sup>

<sup>a</sup>Unité de Chimie Organique associée au CNRS, Université Paris-Sud, Centre d'Etudes Pharmaceutiques, 5 rue J.-B. Clément, 92296 Châtenay-Malabry, France

<sup>b</sup>Unité de Molécules d'Intérêt Biologique, UFR Pharmacie, BP 87900, 21079 Dijon, France

<sup>c</sup>Laboratoire de Cristalochimie Bioinorganique, Université Paris-Sud, Faculté de Pharmacie, 5 rue J.-B. Clément, 92296 Châtenay-Malabry, France

<sup>d</sup>Institut de Chimie des Substances Naturelles, CNRS, Avenue de la Terrasse, 91198 Gif sur Yvette, France

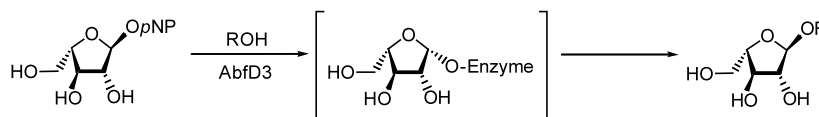


### Enzymatic synthesis of alkyl arabinofuranosides using a thermostable $\alpha$ -L-arabinofuranosidase

Caroline Rémond,<sup>a</sup> Mounir Ferchichi,<sup>a</sup> Nathalie Aubry,<sup>a</sup> Richard Plantier-Royon,<sup>b</sup> Charles Portella<sup>b</sup> and Michael J. O'Donohue<sup>a,\*</sup>

<sup>a</sup>Institut National de la Recherche Agronomique, UMR FARE, 8, rue Gabriel Voisin, BP 316, 51688 Reims Cedex 2, France

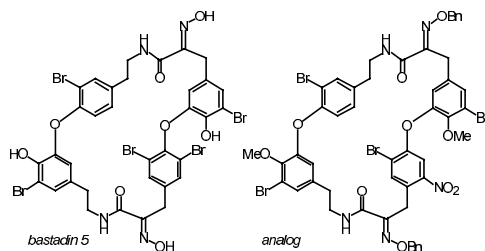
<sup>b</sup>Laboratoire Réactions Sélectives et Applications, Associé au CNRS (UMR 6519), Université de Reims, Faculté des Sciences, BP 1039, 51687 Reims Cedex 2, France



## Synthesis of bastadin analogs through an $S_NAr$ coupling strategy

Karl L. Bailey and Tadeusz F. Molinski\*

Department of Chemistry, University of California, Davis, CA 95616, USA

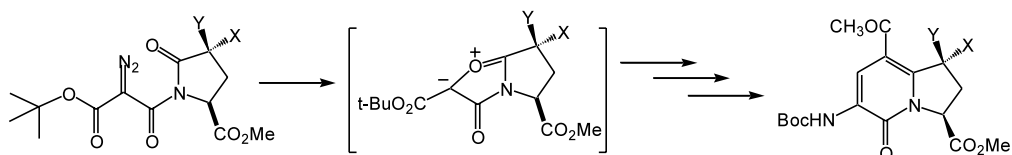


Tetrahedron Letters 43 (2002) 9657

## Design and synthesis of 6-amino-5-oxo-1,2,3,5-tetrahydro-3-indolizinecarboxylic acids as $\beta$ -sheet peptidomimetics

Xiaojun Zhang,\* Aaron C. Schmitt and Carl P. Decicco

Discovery Chemistry, Bristol-Myers Squibb, Route 141 and Henry Clay Road, Wilmington, DE 19880, USA



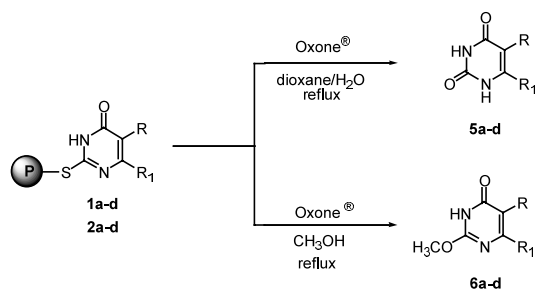
Tetrahedron Letters 43 (2002) 9663

## Solid-phase synthesis (SPS) of substituted uracils via Oxone<sup>®</sup> cleavage methodology

Elena Petricci, Michela Renzulli, Marco Radi, Federico Corelli\* and Maurizio Botta\*

Dipartimento Farmaco Chimico Tecnologico, Università di Siena, via Aldo Moro, 53100 Siena, Italy

An original and highly efficient Oxone<sup>®</sup> cleavage methodology for the solid-phase synthesis of substituted uracils has been developed. An example of application of this methodology to the solid-phase synthesis of uridine derivatives is also reported.



Tetrahedron Letters 43 (2002) 9667

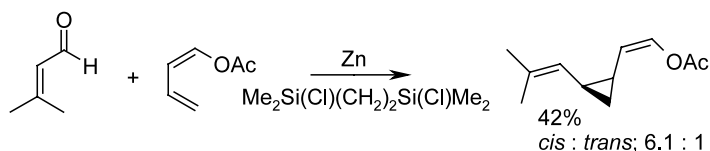
## Observations on the regio- and stereoselective trapping of organozinc carbenoids by acetoxybutadienes: a useful route to functionalised vinylcyclopropanes

Rehan Aqil,<sup>a</sup> William B. Motherwell,<sup>a,\*</sup> Lee R. Roberts<sup>b</sup> and C. Adam Russell<sup>c</sup>

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

<sup>b</sup>Department of Chemistry, Imperial College of Science Technology and Medicine, Exhibition Road, South Kensington, London, SW7 2AY, UK

<sup>c</sup>Lead Finding Chemistry, Syngenta, Jealott's Hill International Research Centre, Bracknell, Berkshire, RG42 6EY, UK



Tetrahedron Letters 43 (2002) 9671

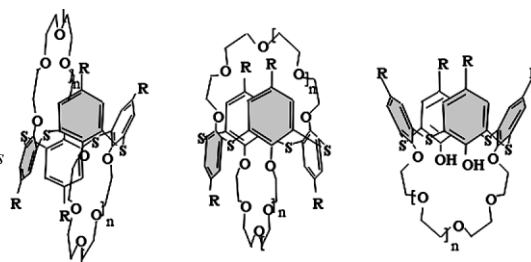
### Cation control on the synthesis of *p-t*-butylthiacalix[4](bis)crown ethers

Fijs W. B. van Leeuwen,<sup>a</sup> Hans Beijleveld,<sup>a</sup> Huub Kooijman,<sup>b</sup>  
Anthony L. Spek,<sup>b</sup> Willem Verboom<sup>a,\*</sup> and  
David N. Reinhoudt<sup>a,\*</sup>

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

<sup>b</sup>Bijvoet Center for Biomolecular Research, Crystal and Structural Chemistry, Utrecht University, Padualaan 8, 3584 CH Utrecht, The Netherlands

The synthesis of novel diametrically and proximally substituted *p-t*-butylthiacalix[4](bis)crown ethers and their extraction behavior towards monovalent metal ions are presented.

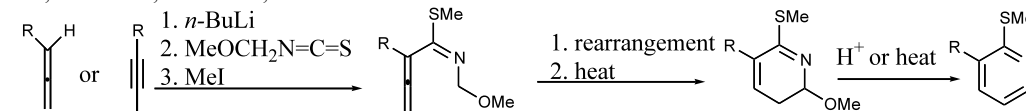


### Synthesis and easy aromatisation of 5-substituted 6-(alkylthio)-2-methoxy-2,3-dihydropyridines. A new approach to the pyridine ring

Nina A. Nedolya,<sup>a</sup> Nataly I. Schlyakhtina,<sup>a</sup> Lyudmila V. Klyba,<sup>a</sup> Igor A. Ushakov,<sup>a</sup> Sergei V. Fedorov<sup>a</sup>  
and Lambert Brandsma<sup>b,\*</sup>

<sup>a</sup>A. E. Favorsky Irkutsk Institute of Chemistry, Siberian Branch of the Russian Academy of Sciences, 1 Favorsky Street, RUS-664033 Irkutsk, Russia

<sup>b</sup>Julianalaan 273, 3722 GN, Bilthoven, The Netherlands



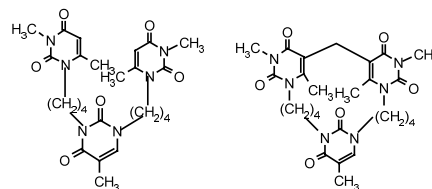
R = OMe, OCH(Me)OEt, Me or SMe

### Intramolecular interactions in acyclic and macrocyclic compounds containing nucleotide bases

Vaycheslav E. Semenov,<sup>\*</sup> Valentin D. Akamsin, Vladimir S. Reznik,  
Alla V. Chernova, Galina M. Dorozhkina, Yuriy Ya. Efremov and  
Adilay A. Nafikova

A.E. Arbuzov Institute of Organic and Physical Chemistry, Arbuzov str. 8,  
Kazan 420088, Russian Federation

Uracilophanes and their acyclic counterparts have been studied by UV spectroscopy in terms of hypochromic and hyperchromic effects.

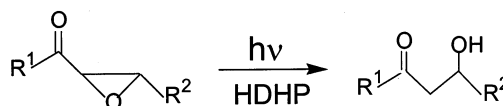


### Photoinduced transformation of $\alpha,\beta$ -epoxyketones to $\beta$ -hydroxyketones by Hantzsch 1,4-dihydropyridine

Jun Zhang, Mei-Zhong Jin, Wei Zhang, Li Yang and Zhong-Li Liu<sup>\*</sup>

National Laboratory of Applied Organic Chemistry, Lanzhou University, Lanzhou, Gansu 730000, China

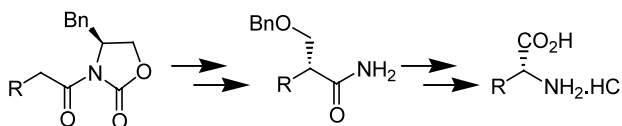
Irradiation ( $\lambda > 300$  nm) of Hantzsch 1,4-dihydropyridine with aromatic  $\alpha,\beta$ -epoxyketones in acetonitrile selectively breaks the C $\alpha$ -O bond of the epoxides giving the corresponding  $\beta$ -hydroxyketones in excellent yields.



**Synthesis of chiral  $\alpha$ -amino acids**

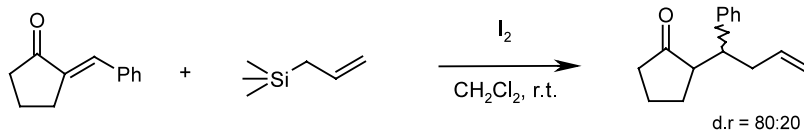
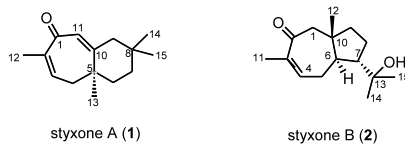
Tushar K. Chakraborty\* and Animesh Ghosh

Indian Institute of Chemical Technology, Hyderabad 500 007, India

**1,4-Conjugate addition of allyltrimethylsilane to  $\alpha,\beta$ -unsaturated ketones**

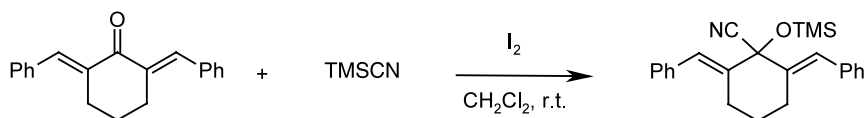
J. S. Yadav,\* B. V. S. Reddy, K. Sadasiv and G. Satheesh

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

**Novel sesquiterpenes and a lactone from the Jamaican sponge *Myrmekioderma styx***Jiangnan Peng,<sup>a</sup> Scott G. Franzblau,<sup>b</sup> Fangqiu Zhang<sup>b</sup> and Mark T. Hamann<sup>a,\*</sup><sup>a</sup>Department of Pharmacognosy and National Center for Natural Products Research, School of Pharmacy, University of Mississippi, MS 38677, USA<sup>b</sup>Institute for Tuberculosis Research, College of Pharmacy, University of Illinois at Chicago, 833 South Wood Street, Chicago, IL 60612-7231, USA**Iodine as novel reagent for the 1,2-addition of trimethylsilyl cyanide to ketones including  $\alpha,\beta$ -unsaturated ketones**

J. S. Yadav,\* B. V. S. Reddy, M. Sridhar Reddy and A. R. Prasad

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

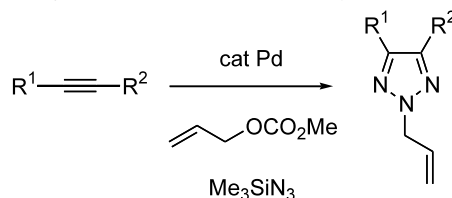


### Regiospecific synthesis of 2-allyl-1,2,3-triazoles by palladium-catalyzed 1,3-dipolar cycloaddition

Shin Kamijo,<sup>a</sup> Tienan Jin,<sup>b</sup> Zhibao Huo<sup>b</sup> and Yoshinori Yamamoto<sup>b,\*</sup>

<sup>a</sup>Research Center for Sustainable Materials Engineering, Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai 980-8578, Japan

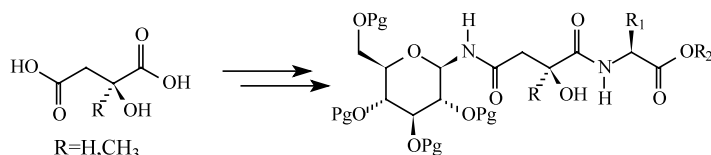
<sup>b</sup>Department of Chemistry, Graduate School of Science, Tohoku University, Sendai 980-8578, Japan



### New building blocks for peptide and depsipeptide modification N-glycosylated L-malic and L-citramalic acid derivatives

Christoph Böttcher and Klaus Burger\*

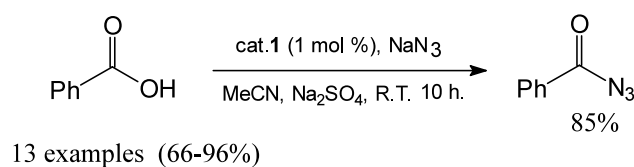
Department of Organic Chemistry, University of Leipzig, Johannisallee 29, D-04103 Leipzig, Germany



### 3,4,5-Trifluorobenzeneboronic acid: a mild and versatile catalyst for the one-pot synthesis of acyl azides from carboxylic acids

R. H. Tale\* and K. M. Patil

Organic Chemistry Research Laboratory, School of Chemical Sciences, S.R.T.M. University, Nanded-6, Maharashtra, India

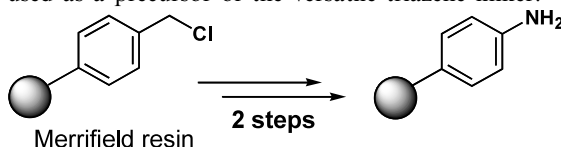


### A straightforward preparation of amino-polystyrene resin from Merrifield resin

Stellios Arseniyadis, Alain Wagner\* and Charles Mioskowski\*

Université Louis Pasteur de Strasbourg, UMR 7514 associée au CNRS, Laboratoire de Synthèse Bioorganique, Faculté de Pharmacie, 74, Route du Rhin, 67401 Illkirch-Graffenstaden, France

Amino-polystyrene resin was efficiently prepared from Merrifield resin in a two-step process. To assess its loading and reactivity, this novel resin was used as a precursor of the versatile triazene linker.



### Synthesis of novel spiro-[3*H*-indole-3,3'-[1,2,4]triazolidine]-2-ones via azomethine imines

Javad Azizian,<sup>a,\*</sup> Ali Varasteh Morady,<sup>b</sup>  
Saeed Soozangarzadeh<sup>b</sup> and Ali Asadi<sup>a</sup>

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

<sup>b</sup>Department of Chemistry, Science and Research  
Campus, Islamic Azad University, PO Box 19395-1775,  
Tehran, Iran

Novel spiroindoles **5** are prepared easily via a one-pot,  
1,3-dipolar cycloaddition reaction of azomethine imines  
with isatin imines under thermal conditions.

