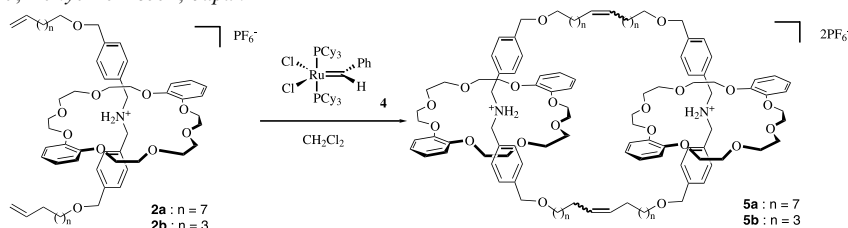
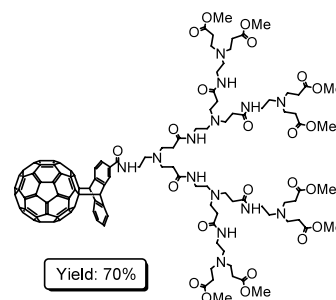
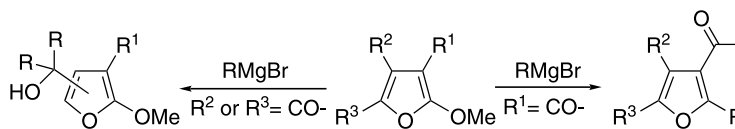
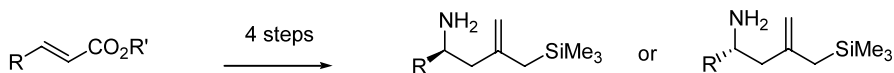


**Convenient synthesis of [3]catenane by olefin metathesis dimerizations***Tetrahedron Letters 44 (2003) 5773*Hajime Iwamoto,<sup>a</sup> Koji Itoh,<sup>a</sup> Hiroyuki Nagamiya<sup>b</sup> and Yoshimasa Fukazawa<sup>a,\*</sup><sup>a</sup>Department of Chemistry, Graduate School of Science, Hiroshima University, Higashi-Hiroshima 739-8526, Japan<sup>b</sup>Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology, 2-12-1 Ookayama, Meguro, Tokyo 152-8552, Japan**Facile and reversible synthesis of an acidic water-soluble poly(amidoamine) fullerodendrimer***Tetrahedron Letters 44 (2003) 5777*Yutaka Takaguchi,<sup>a,\*</sup> Yuuki Sako,<sup>b</sup> Yasushi Yanagimoto,<sup>a</sup> Sadao Tsuboi,<sup>a</sup> Jiro Motoyoshiya,<sup>b</sup> Hiromu Aoyama,<sup>b</sup> Takatsugu Wakahara<sup>c</sup> and Takeshi Akasaka<sup>c</sup><sup>a</sup>Faculty of Environmental Science and Technology, Okayama University, Okayama, Okayama 700-8530, Japan<sup>b</sup>Faculty of Textile Science & Technology, Shinshu University, Ueda, Nagano 386-8567, Japan<sup>c</sup>Center for Tsukuba Advanced Research Alliance, University of Tsukuba, Tsukuba, Ibaraki 305-8577, Japan**The first nucleophilic aromatic substitution of suitably activated 2-methoxyfurans with Grignard reagents***Tetrahedron Letters 44 (2003) 5781*M. Rosaria Iesce,<sup>\*</sup> M. Liliana Graziano, Flavio Cermola, Stefania Montella and Lucrezia Di Gioia

Dipartimento di Chimica Organica e Biochimica, Università degli Studi di Napoli Federico II, Complesso Universitario Monte S. Angelo, via Cinthia, I-80126 Napoli, Italy

**A facile enantioselective synthesis of 2-(2-aminoethyl)allylsilanes, new synthons for piperidine synthesis***Tetrahedron Letters 44 (2003) 5785*Jérémy Monfray, Yvonne Gelas-Mialhe, Jean-Claude Gramain and Roland Remuson<sup>\*</sup>

Laboratoire de Synthèse Et Étude de Systèmes à Intérêt Biologique (SEESIB), CNRS UMR 6504, Université Blaise Pascal (Clermont-Ferrand), 63177 Aubière, France



### A new one-pot synthesis of *all E*-retinoic acid via a new enaminiodiester synthon

*Tetrahedron Letters* 44 (2003) 5789

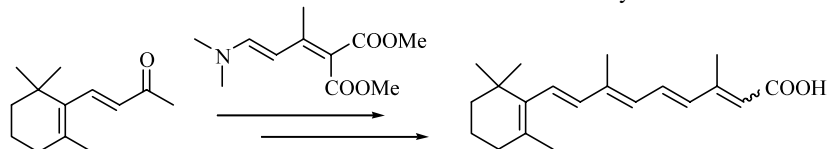
Dominique Cartier,<sup>a</sup> Alain Valla,<sup>a,b,\*</sup> Roger Labia,<sup>a</sup> Régis Le Guillou<sup>a</sup> and Pierre Potier<sup>c</sup>

<sup>a</sup>*Chimie et Biologie des Substances Naturelles 6, rue de l'Université, 29000 Quimper, France*

<sup>b</sup>*VA R&D Pépinière d'Entreprises, 140 boulevard de Creac'h Gwen, 29561 Quimper, France*

<sup>c</sup>*UPR 2301 CNRS Avenue de la Terrasse, 91198 Gif-sur-Yvette Cedex, France*

A 'one-pot' synthesis of retinoic acid is described from a new enaminiodiester synthon.



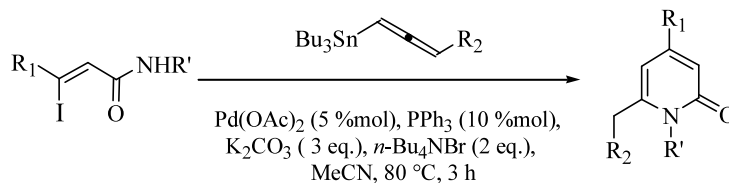
### Regio- and selective synthesis of 4,6-disubstituted-2-pyridones

*Tetrahedron Letters* 44 (2003) 5791

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

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

<sup>b</sup>*Laboratoire de Synthèse Organique associé au CNRS (UMR 6009), Faculté des Sciences de Saint Jérôme, Avenue Escadrille Normandie-Niemen, 13397 Marseille Cedex 20, France*



### A new family of delocalized lipophilic cations

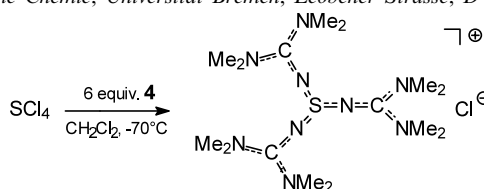
*Tetrahedron Letters* 44 (2003) 5795

Marielouise Henrich,<sup>a</sup> Albrecht Marhold,<sup>a</sup> Alexander A. Kolomeitsev,<sup>b,\*</sup> Natalya Kalinovich<sup>c</sup> and Gerd-Volker Rösenthaller<sup>c</sup>

<sup>a</sup>*BCH-FCH-RD Fluorchemie, D-51368 Bayer AG, Leverkusen, Germany*

<sup>b</sup>*Institute of Organic Chemistry, Ukrainian National Academy of Sciences, Murmanskaya 6, 02094 Kiev, Ukraine*

<sup>c</sup>*Institut für Anorganische & Physikalische Chemie, Universität Bremen, Leobener Strasse, D-28334 Bremen, Germany*



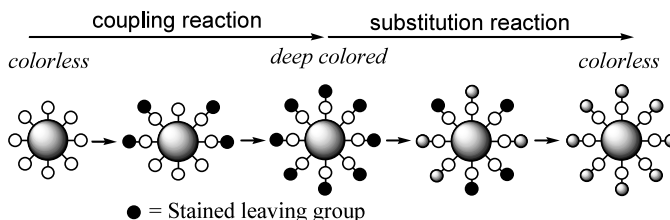
### A real time reaction monitoring using fluorescent dansyl group as a solid-phase leaving group

*Tetrahedron Letters* 44 (2003) 5799

Toshiro Suenaga,<sup>\*</sup> Caroline Schutz and Tadashi Nakata<sup>\*</sup>

*RIKEN (The Institute of Physical and Chemical Research), Hirosawa 2-1, Wako, Saitama 351-0198, Japan*

A real time monitoring method to monitor the progress of the solid-phase reaction using fluorescent dansyl group has been developed.



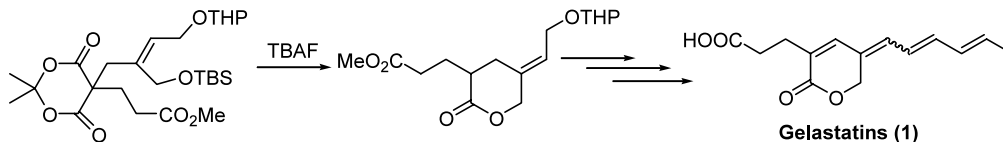
### A practical total synthesis of gelastatins

*Tetrahedron Letters* 44 (2003) 5803

Hee-Yoon Lee,\* Hyun Seop Tae, Byung Gyu Kim and Hyun-Moo Choi

Center for Molecular Design and Synthesis, Department of Chemistry & BK21 School of Molecular Science, Korea Advanced Institute of Science and Technology, Daejeon 305-701, Republic of Korea

The first and practical total synthesis of gelastatins **1**, a novel matrix metalloproteinase inhibitor possessing antitumor activity, was accomplished in nine steps starting from Meldrum's acid.



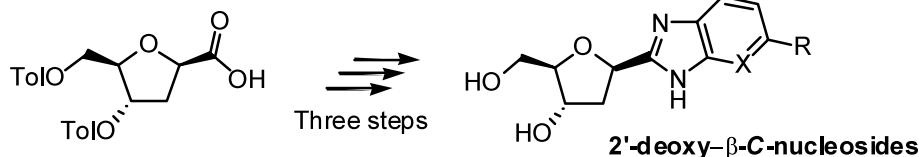
### A short and efficient synthesis of 2'-deoxybenzo- and pyridoimidazole C-nucleosides

*Tetrahedron Letters* 44 (2003) 5807

Mohamed Jazouli,<sup>a</sup> Dominique Guianvarc'h, Mohamed Soufiaoui,<sup>a,\*</sup> Khalid Bougrin,<sup>a</sup> Pierre Vierling<sup>b</sup> and Rachid Benhida<sup>b,\*</sup>

<sup>a</sup>Laboratoire de Chimie des Plantes et de Synthèse Organique et Bioorganique, Université Mohamed V-Agdal, Faculté des Sciences, Avenue Ibn Batouta, BP 1014, Rabat, Morocco

<sup>b</sup>Laboratoire de Chimie Bioorganique UMR-CNRS 6001, Université de Nice-Sophia Antipolis, Parc Valrose, 06108 Nice cedex 2, France



This process was applied for the synthesis of both  $\alpha$  and  $\beta$ -anomers

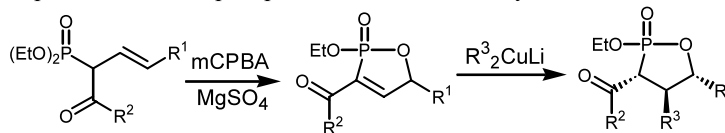
### A facile synthesis of 1,2-oxaphospholenes and stereoselective conversion into oxaphospholanes

*Tetrahedron Letters* 44 (2003) 5811

Jung Hwan Hah, Bum Sung Lee, Shi Yong Lee and Hee-Yoon Lee\*

Center for Molecular Design and Synthesis, Department of Chemistry & BK21 School of Molecular Science, Korea Advanced Institute of Science and Technology, Daejeon 305-701, Republic of Korea

Treatment of  $\alpha$ -acylallylphosphonates with *m*-CPBA in the presence of  $\text{MgSO}_4$ , afforded 1,2-oxaphosphol-3-enes 2-oxides and the subsequent cuprate addition produced 1,2-oxaphospholanes stereoselectively.



### A cyclodextrin-based molecular reactor to template the formation of indigoid dyes

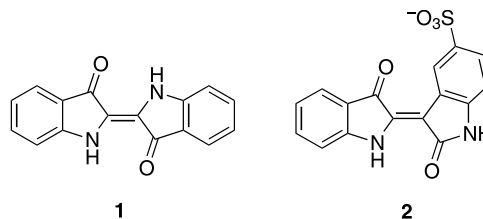
*Tetrahedron Letters* 44 (2003) 5815

Jason B. Harper,<sup>a</sup> Christopher J. Easton<sup>a,\*</sup> and Stephen F. Lincoln<sup>b</sup>

<sup>a</sup>Research School of Chemistry, Australian National University, Canberra ACT 0200, Australia

<sup>b</sup>Department of Chemistry, University of Adelaide, Adelaide SA 5005, Australia

In water, *N,N'*-bis(6<sup>A</sup>-deoxy- $\beta$ -cyclodextrin-6<sup>A</sup>-yl)urea behaves as a molecular reactor, to increase the ratio of formation of the indirubinsulfonate **2** to indigo (**1**) from indoxyl anion and isatin-5-sulfonate, by a factor of at least 3500 without loss of yield.



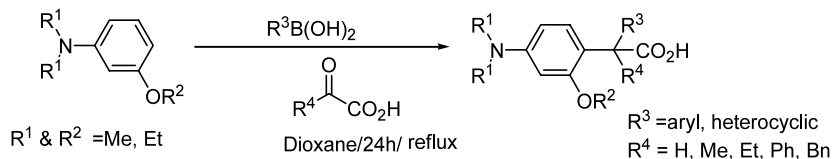
## Novel Petasis boronic acid–Mannich reactions with tertiary aromatic amines

*Tetrahedron Letters* 44 (2003) 5819

Dinabandhu Naskar,<sup>a,\*</sup> Amrita Roy,<sup>a</sup> William L. Seibel<sup>b</sup> and David E. Portlock<sup>b</sup>

<sup>a</sup>Chembiotek Research International, Block BN, Sector-V, Plot 7, Salt Lake Electronic Complex, Kolkata 700 091, India

<sup>b</sup>Combinatorial Chemistry Section, Procter & Gamble Pharmaceuticals Health Care Research Center, 8700 Mason Montgomery Road, Mason, OH 45040, USA

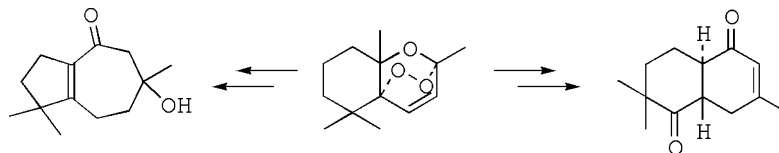


## 1,2,4-Trioxane in organic synthesis. Unusual entry to diverse carbocyclic frameworks derived from $\beta$ -ionone

*Tetrahedron Letters* 44 (2003) 5823

Mirta Mischne\*

Instituto de Química Orgánica de Síntesis (CONICET-UNR) Facultad de Ciencias Bioquímicas y Farmacéuticas, 2000 Rosario, Argentina



## Ancisheynine, a novel naphthylisoquinolinium alkaloid from *Ancistrocladus heyneanus*

*Tetrahedron Letters* 44 (2003) 5827

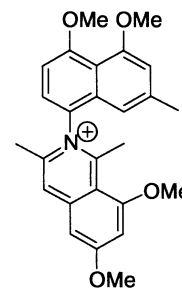
Lay-Kien Yang,<sup>a</sup> Robert P. Glover,<sup>a</sup> K. Yoganathan,<sup>a</sup> Jayant P. Sarnaik,<sup>b</sup> Archana J. Godbole,<sup>b</sup> Doel D. Soejarto,<sup>c</sup> Antony D. Buss<sup>a</sup> and Mark S. Butler<sup>a,\*</sup>

<sup>a</sup>MerLion Pharmaceuticals, 59A Science Park Drive, The Fleming, Singapore Science Park, Singapore 118240

<sup>b</sup>Applied Environmental Research Foundation, G-2, Hill View, 46/4 Erandwane, Paul Rd, Pune 411038, India

<sup>c</sup>Faculty of Medicinal Chemistry and Pharmacognosy, University of Illinois at Chicago, 833 S. Wood Street, Chicago, IL 60612, USA

Ancisheynine, a novel naphthylisoquinoline alkaloid with a previously undescribed N-2,C-8'-linkage, was isolated from the aerial part of *Ancistrocladus heyneanus* (Ancistrocladaceae).



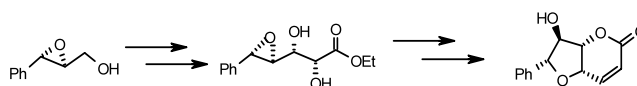
## A concise and stereoselective synthesis of both enantiomers of altholactone and isoaltholactone

*Tetrahedron Letters* 44 (2003) 5831

J. S. Yadav,\* G. Rajaiah and A. Krishnam Raju

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

The synthesis of both enantiomers of altholactone and isoaltholactone has been achieved in a concise and highly enantioselective manner.

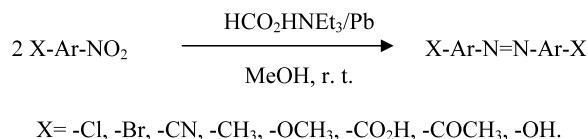


### The synthesis of azo compounds from nitro compounds using lead and triethylammonium formate

G. R. Srinivasa, K. Abiraj and D. Channe Gowda\*

Department of Studies in Chemistry, University of Mysore, Manasagangotri, Mysore, Karnataka 570 006, India

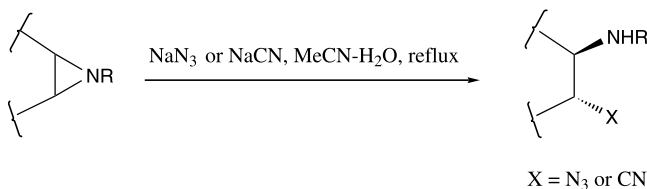
Azo compounds containing additional reducible substituents such as halogens, nitrile, acid, phenol, ester, methoxy functions, etc, are synthesized by reducing the corresponding nitro compounds using lead and triethylammonium formate in methanol.



### Do aziridines require Lewis acids for cleavage with ionic nucleophiles?

Alakesh Bisai, Ghanshyam Pandey, Manoj K. Pandey and Vinod K. Singh\*

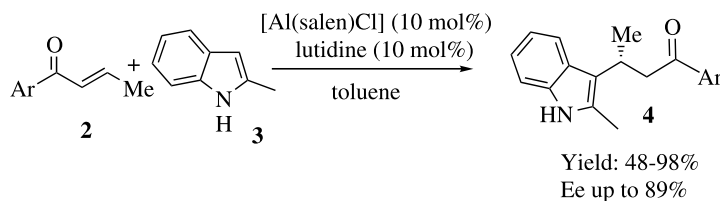
Department of Chemistry, Indian Institute of Technology, Kanpur 208 016, India



### Catalytic enantioselective conjugate addition of indoles to simple $\alpha,\beta$ -unsaturated ketones

Marco Bandini,\* Matteo Fagioli, Paolo Melchiorre, Alfonso Melloni and Achille Umani-Ronchi\*

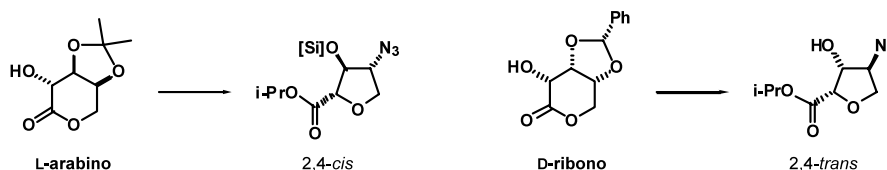
Dipartimento di Chimica 'G. Ciamician', Università di Bologna, Via Selmi 2, 40126 Bologna, Italy



### Templated scaffolds of *cis*- and *trans*-tetrahydrofuran $\gamma$ -amino acids: $\gamma$ -azido- $\beta$ -hydroxy-tetrahydrofuran-2-carboxylates from pentono- $\delta$ -lactones

Gangadharar J. Sanjayan, Alistair Stewart, Shuji Hachisu, Raquel Gonzalez, Mark P. Watterson and George W. J. Fleet\*

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



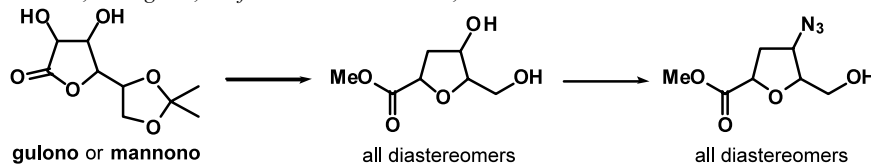
**Synthesis of all diastereomeric methyl 2,5-anhydro-3-deoxy-hexonates: precursors to C-2-deoxynucleosides and THF-templated  $\gamma$ - and  $\delta$ -amino acids**

*Tetrahedron Letters 44 (2003) 5853*

Mark P. Watterson,<sup>a</sup> Alison A. Edwards,<sup>a</sup> John A. Leach,<sup>a</sup> Martin D. Smith,<sup>a</sup> Osamu Ichihara<sup>b</sup> and George W. J. Fleet<sup>a,\*</sup>

<sup>a</sup>Dyson Perrins Laboratory, South Parks Road, University of Oxford, Oxford OX1 3QY, UK

<sup>b</sup>Evotec OAI, 151 Milton Park, Abingdon, Oxfordshire OX14 4SD, UK

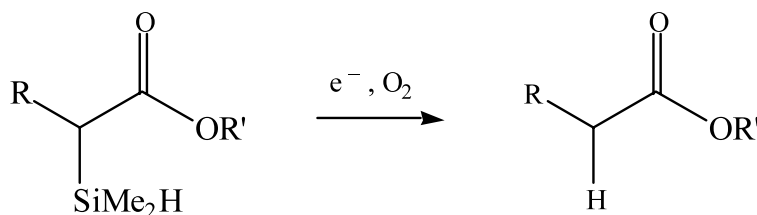


**Novel desilylation of  $\alpha$ -dimethylsilyl esters by electrochemically generated superoxide ion**

*Tetrahedron Letters 44 (2003) 5859*

Christos Kaimakliotis and Albert J. Fry\*

Chemistry Department, Wesleyan University, Middletown, CT 06459, USA

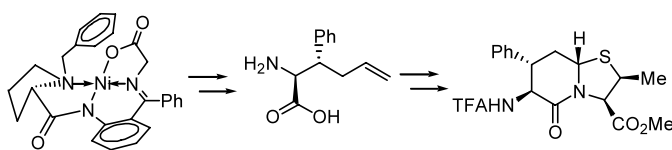


**Synthesis of  $\beta$ -phenyl- $\delta,\epsilon$ -unsaturated amino acids and stereoselective introduction of side chain groups into [4,3,0]-bicyclic  $\beta$ -turn dipeptides**

*Tetrahedron Letters 44 (2003) 5863*

Xuyuan Gu, Scott Cowell, Jinfa Ying, Xuejun Tang and Victor J. Hruby\*

Department of Chemistry, 1306 E. University, Tucson, AZ 85721, USA

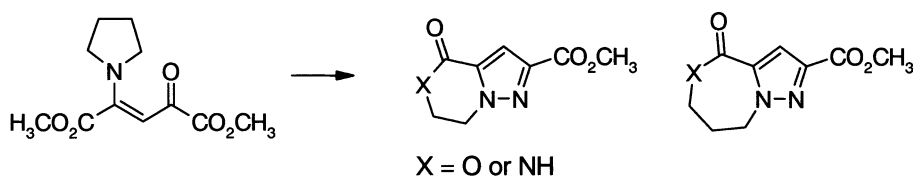


**Rapid synthesis of tetrahydro-4H-pyrazolo[1,5-a]diazepine-2-carboxylate**

*Tetrahedron Letters 44 (2003) 5867*

Raymond J. Cvetovich,\* Brenda Pipik, Frederick W. Hartner and Edward J. J. Grabowski

Department of Process Research, Merck Research Laboratories, Merck & Co., PO Box 2000, Rahway, NJ 07065, USA



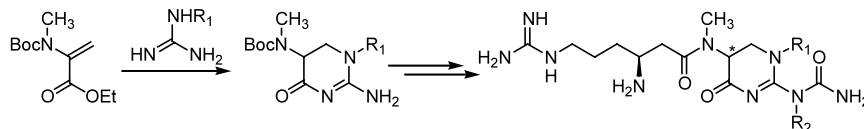
### A new approach to the 2,5-diamino-5,6-dihydro-1H-pyrimidine-4-one derivatives: synthesis of TAN-1057A/B and analogs

*Tetrahedron Letters 44 (2003) 5871*

Lijun Zhang, Lianhong Xu\* and Choung U. Kim

*Department of Medicinal Chemistry, Gilead Sciences, Inc., 333 Lakeside Drive, Foster City, CA 94404, USA*

TAN1057A/B has shown potent activity against MRSA. A new approach to the 2,5-diamino-5,6-dihydro-1H-pyrimidine-4-one derivatives has been developed. TAN-1057A/B and its analogs were efficiently synthesized using this new method.

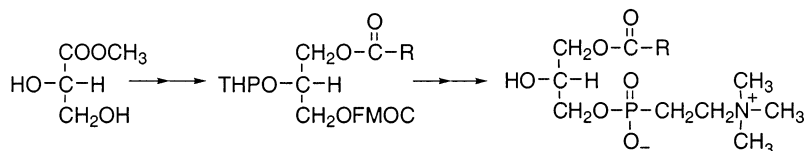


### A new approach to the synthesis of lysophosphatidylcholines and related derivatives

*Tetrahedron Letters 44 (2003) 5875*

Niloufar Bibak and Joseph Hajdu\*

*Department of Chemistry, California State University, Northridge, CA 91330-8262, USA*



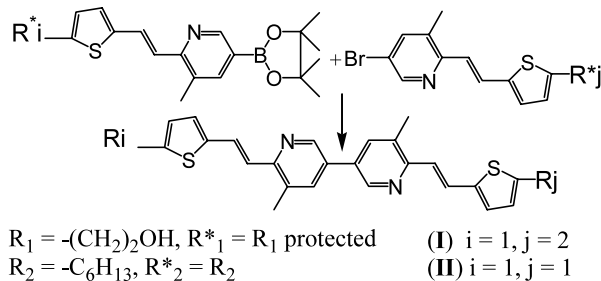
### 6-(Arylvinylen)-3-pyridinylboronic esters. Part 1: Versatile building blocks for conjugated chromophores via Suzuki cross-coupling

*Tetrahedron Letters 44 (2003) 5879*

Nicolas Leclerc, Isabelle Series and André-Jean Attias\*

*Laboratoire de Chimie des Polymères (CNRS, UMR 7610),  
Université P. et M. Curie, 4 place Jussieu,  
F-75252 Paris Cedex 05, France*

After the cross-coupling, (I) and (II) are deprotected.

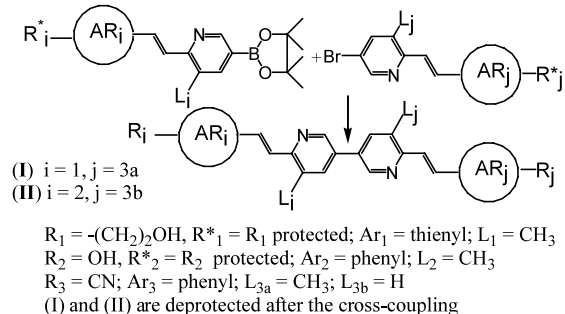


### 6-(Arylvinylen)-3-pyridinylboronic esters. Part 2: Versatile building blocks for push-pull nonlinear optical chromophores

*Tetrahedron Letters 44 (2003) 5883*

Nicolas Leclerc, Laurent Galmiche and André-Jean Attias\*

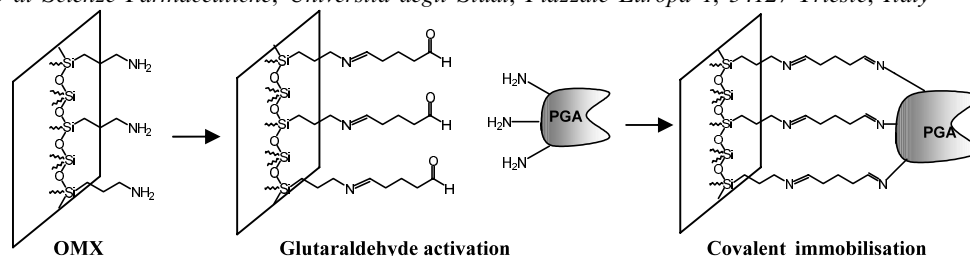
*Laboratoire de Chimie des Polymères (CNRS, UMR 7610),  
Université P. et M. Curie, 4 place Jussieu,  
F-75252 Paris Cedex 05, France*



## Organically modified xerogels as novel tailor-made supports for covalent immobilisation of enzymes (penicillin G acylase)

*Tetrahedron Letters 44 (2003) 5889*

Alessandra Basso, Luigi De Martin, Cynthia Ebert, Lucia Gardossi,\* Paolo Linda and Fabrizio Sibilla  
Dipartimento di Scienze Farmaceutiche, Università degli Studi, Piazzale Europa 1, 34127 Trieste, Italy



## One-pot synthesis of 2-(2-hydroxyaryl)quinolines: reductive coupling reactions of 2'-hydroxy-2-nitrochalcones

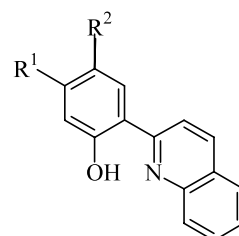
*Tetrahedron Letters 44 (2003) 5893*

Ana I. R. N. A. Barros<sup>a</sup> and Artur M. S. Silva<sup>b,\*</sup>

<sup>a</sup>Chemistry Department, University of Trás-os-Montes e Alto Douro, 5001-911 Vila Real, Portugal

<sup>b</sup>Chemistry Department, University of Aveiro, 3810-193 Aveiro, Portugal

A new synthesis of novel 2-(2-hydroxyaryl)quinolines have been developed from the intramolecular reductive coupling reactions of 2'-hydroxy-2-nitrochalcones.



## Biosynthetic studies of versipelostatin, a novel 17-membered $\alpha$ -tetronic acid involved macrocyclic compound isolated from *Streptomyces versipellis*

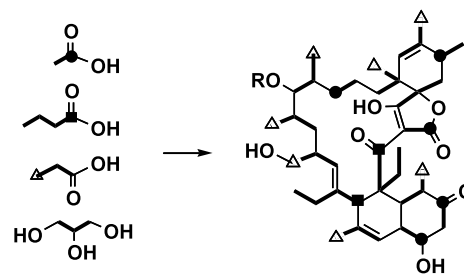
*Tetrahedron Letters 44 (2003) 5897*

Shuhei Chijiwa,<sup>a</sup> Hae-Ryong Park,<sup>a</sup> Kazuo Furihata,<sup>b</sup> Masahiro Ogata,<sup>c</sup> Toyoshige Endo,<sup>c</sup> Tomohisa Kuzuyama,<sup>a</sup> Yoichi Hayakawa<sup>a</sup> and Kazuo Shin-ya<sup>a,\*</sup>

<sup>a</sup>Institute of Molecular and Cellular Biosciences, The University of Tokyo, Bunkyo-ku, Tokyo 113-0032, Japan

<sup>b</sup>Graduate School of Agricultural and Life Sciences, The University of Tokyo, Bunkyo-ku, Tokyo 113-8657, Japan

<sup>c</sup>Kyoritsu College of Pharmacy, Minato-ku, Tokyo 105-8512, Japan

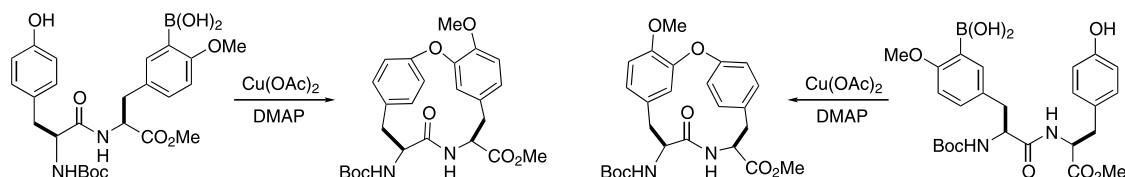


## Synthesis of L,L-cycloisodityrosines by copper(II) acetate-DMAP-mediated intramolecular O-arylation of phenols with phenylboronic acids

*Tetrahedron Letters 44 (2003) 5901*

Yukio Hitotsuyanagi, Hiroshi Ishikawa, Syunsuke Naito and Koichi Takeya\*

School of Pharmacy, Tokyo University of Pharmacy and Life Science, 1432-1 Horinouchi, Hachioji, Tokyo 192-0392, Japan





### Diastereoselective synthesis of *syn*-aminoalcohols via contributing CH- $\pi$ interaction: simple synthesis of (–)-bestatin

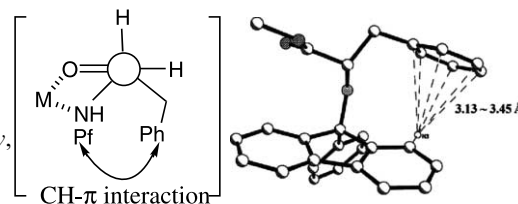
*Tetrahedron Letters* 44 (2003) 5905

Byong Won Lee,<sup>a</sup> Jin Hwan Lee,<sup>a</sup> Ki Chang Jang,<sup>a</sup> Jae Eun Kang,<sup>a</sup> Jin Hyo Kim,<sup>a</sup> Ki-Min Park<sup>b</sup> and Ki Hun Park<sup>a,\*</sup>

<sup>a</sup>*Division of Applied Life Science (BK21 program), Department of Agricultural Chemistry, Gyeongsang National University, Chinju 660-701, South Korea*

<sup>b</sup>*The Research Institute of Natural Science, Gyeongsang National University, Chinju 660-701, South Korea*

A CH- $\pi$  interaction and chelation control contributes to afford *syn*-aminoalcohols in high selectivity.



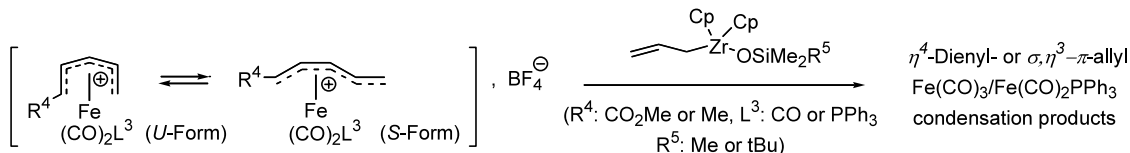
### C–C bond formation using allylic organozirconium compounds. Nucleophilic additions on to isolated and in situ generated $\eta^5$ -pentadienyl- $\text{Fe}(\text{CO})_3/\text{Fe}(\text{CO})_2\text{PPh}_3(+1)$ cations

*Tetrahedron Letters* 44 (2003) 5909

Leila Motiei,<sup>a</sup> Ilan Marek,<sup>b</sup> Hugo E. Gottlieb,<sup>a</sup> Vered Marks<sup>a</sup> and Jean-Paul Lellouche<sup>a,\*</sup>

<sup>a</sup>*Department of Chemistry, Bar-Ilan University, 52900 Ramat-Gan, Israel*

<sup>b</sup>*Department of Chemistry Technion-Israel Institute of Technology, Technion City, 32 000 Haifa, Israel*



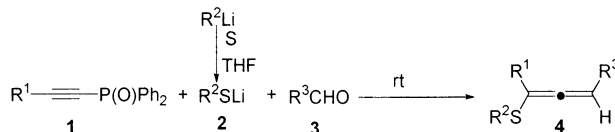
### Facile synthesis of sulfur-substituted allenes by a three-component reaction

*Tetrahedron Letters* 44 (2003) 5913

Xian Huang<sup>a,b,\*</sup> and Zheng-Chang Xiong<sup>a</sup>

<sup>a</sup>*Department of Chemistry, Zhejiang University (Campus Xixi), Hangzhou 310028, PR China*

<sup>b</sup>*State Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai 200032, PR China*

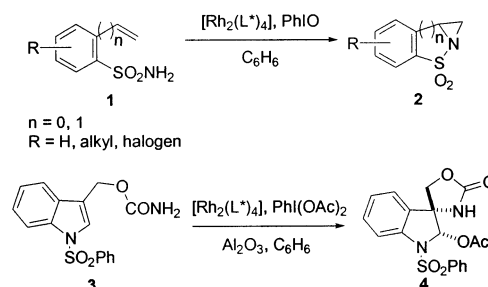


### Chiral rhodium(II,II) dimers catalyzed enantioselective intramolecular aziridination of sulfonamides and carbamates

*Tetrahedron Letters* 44 (2003) 5917

Jiang-Lin Liang, Shi-Xue Yuan, Philip Wai Hong Chan and Chi-Ming Che<sup>\*</sup>

*Department of Chemistry and Open Laboratory of Chemical Biology of the Institute of Molecular Technology for Drug Discovery and Synthesis, The University of Hong Kong, Pokfulam Road, Hong Kong, PR China*

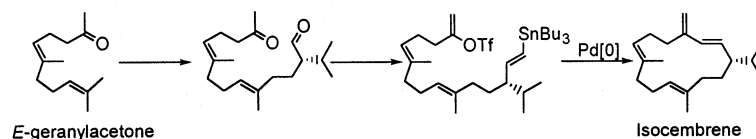


## Studies on novel macrocyclization methods of cembrane-type diterpenoids: a Stille cyclization approach to ( $\pm$ )-isocembrene

*Tetrahedron Letters* 44 (2003) 5921

Lizeng Peng, Fengzhi Zhang, Tiansheng Mei, Tao Zhang and Yulin Li\*

National Laboratory of Applied Organic Chemistry, Institute of Organic Chemistry, Lanzhou University, Lanzhou 730000, PR China



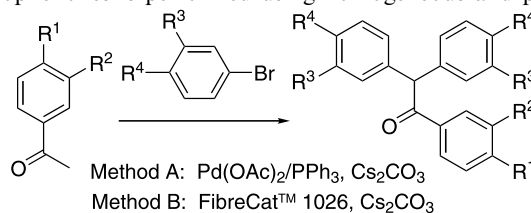
## Regioselective diarylation of ketone enolates by homogeneous and heterogeneous catalysis: synthesis of triarylethanones

*Tetrahedron Letters* 44 (2003) 5925

Fátima Churruca, Raul SanMartin,\* Imanol Tellitu and Esther Domínguez\*

Kimika Organikoa II Saila, Zientzi Fakultatea, Euskal Herriko Unibertsitatea, PO Box 644, 48080 Bilbao, Spain

The one-pot diarylation of acetophenones is performed using homogeneous and polymer-anchored palladium catalysts.



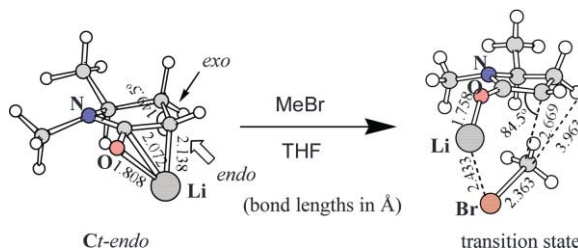
## Origin of stereochemistry in Meyers enolate alkylations. Importance of major enolate structure and population in tetrahydrofuran

*Tetrahedron Letters* 44 (2003) 5931

Yasuhiro Ikuta and Shuji Tomoda\*

Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo, Komaba, Meguro-ku, Tokyo 153-8902, Japan

It was found that in tetrahydrofuran solution, predominance (99.2%) of the highly stabilized Meyers enolate (1,5-dimethylpyrrolidin-2-one lithium enolate (**1**)) isomer with intramolecular Li- $\pi_{C=C}$  coordination from the *endo*-face (*Ct-endo*) may be responsible for exceedingly high *endo*-selectivity in Meyers enolate alkylation.



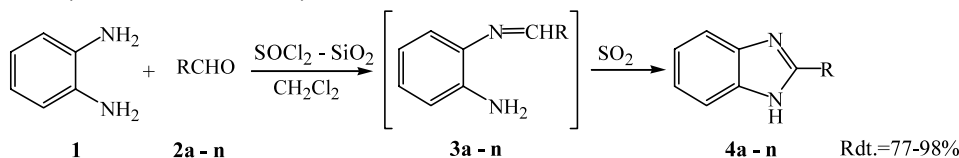
## Synthèse chimiosélective des benzimidazoles sur silice traitée par le chlorure du thionyle

*Tetrahedron Letters* 44 (2003) 5935

Abdelkrim Ben Alloum,<sup>a</sup> Khalid Bougrin<sup>b</sup> and Mohamed Soufiaoui<sup>b,\*</sup>

<sup>a</sup>Laboratoire de Chimie Organique et Bioorganique, Université Chouaib Doukkali, Faculté des Sciences, BP 20. El Jadida, Maroc

<sup>b</sup>Laboratoire de Chimie des Plantes et de Synthèse Organique et Bioorganique, Université Mohammed V-Agdal, Faculté des Sciences, BP 1014 R.P. Rabat, Maroc



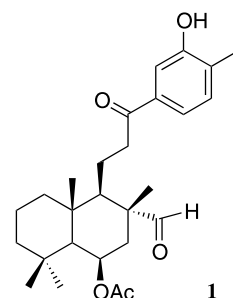
# Caminatal, an aldehyde sesterterpene with a novel carbon skeleton from the Antarctic sponge *Suberites caminatus*

Ana R. Díaz-Marrero,<sup>a</sup> Inmaculada Brito,<sup>a</sup> Enrique Dorta,<sup>a</sup> Mercedes Cueto,<sup>a</sup> Aurelio San-Martín<sup>b</sup> and José Darías<sup>a,\*</sup>

<sup>a</sup>Instituto de Productos Naturales y Agrobiología del CSIC, Avda. Astrofísico F. Sánchez, 3, Apdo. 195, 38206 La Laguna, Tenerife, Spain

<sup>b</sup>Departamento de Química, Facultad de Ciencias, Universidad de Chile, Las Palmeras 3425, Santiago, Chile

The structure and relative stereochemistry of caminatal **1** are described.



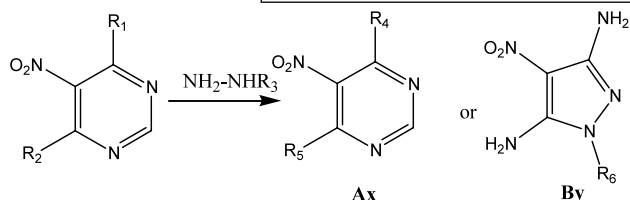
## New synthetic route to diaminonitropyrazoles as precursors of energetic materials

Jérôme Guillard, Fanny Goujon, Perrine Badol and Didier Poullain\*

CEA Le Ripault BP 16 37260 Monts, France

Treatment of nitropyrimidine derivatives with (*N*-substituted) hydrazines (2 equiv.) gave 1-(substituted)-3,5-diamino-4-nitropyrazoles, providing a very mild conversion of pyrimidines into pyrazoles.

This reaction provided a convenient route to precursors for new efficient and insensitive explosives.



**Ax** x=1, R<sub>4</sub>=R<sub>5</sub>=NHNH<sub>2</sub>  
 x=2, R<sub>4</sub>=R<sub>5</sub>=NHNHMe  
 x=3, R<sub>4</sub>=NHNHBn, R<sub>5</sub>=Cl  
 x=4, R<sub>4</sub>=R<sub>5</sub>=NHNHSO<sub>2</sub>Ph

**By** y=1, R<sub>6</sub>=H  
 y=2, R<sub>6</sub>=Me