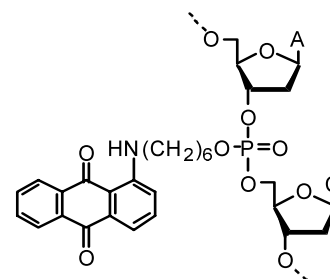


**Copper-mediated regioselective allylation and propargylation of 2-(alkylthio)oxazoles***Tetrahedron Letters 44 (2003) 7395*

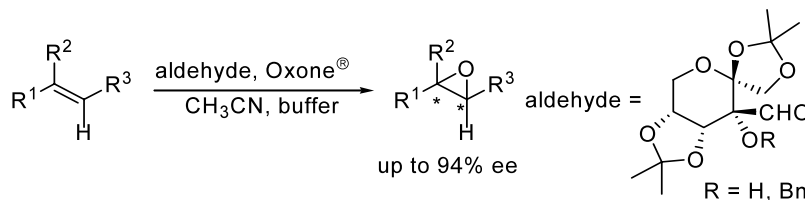
Joseph P. Marino\* and Hanh Nho Nguyen

*Department of Chemistry, University of Michigan, Ann Arbor, MI 48109, USA***Novel dinucleoside phosphotriester unit conjugated with an intercalative moiety in a stereospecific manner enhances thermal stability of an alternate-stranded triple helix***Tetrahedron Letters 44 (2003) 7399*Takanori Miyashita,<sup>a</sup> Noritake Matsumoto,<sup>b</sup> Tomohisa Moriguchi<sup>b</sup> and Kazuo Shinozuka<sup>b,\*</sup><sup>a</sup>*Chemistry Lab., Yamasa Corporation, 2-10-1 Araocho, Choshi 288-0056, Japan*<sup>b</sup>*Department of Chemistry, Faculty of Engineering, Gunma University, Kiryu 376-8515, Japan*

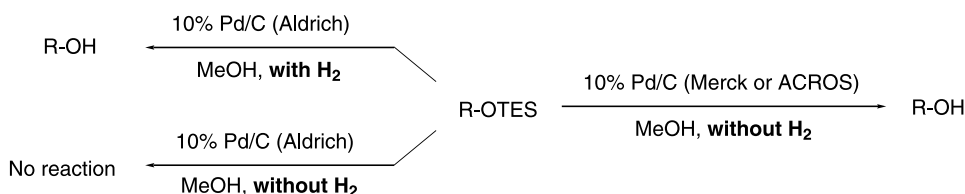
An  $\alpha$ - $\beta$  chimeric oligoDNA conjugated with a novel dinucleoside phosphotriester unit bearing an intercalative moiety exhibited enhanced thermal stability of an alternate-stranded triplex in a stereospecific manner.

**First highly enantioselective epoxidation of alkenes with aldehyde/Oxone<sup>®</sup>***Tetrahedron Letters 44 (2003) 7403*

Ghanashyam Bez and Cong-Gui Zhao\*

*Department of Chemistry, University of Texas at San Antonio, 6900 N. Loop 1604 W., San Antonio, TX 78249-0698, USA***Significant supplier-dependent disparity in catalyst activity of commercial Pd/C toward the cleavage of triethylsilyl ether***Tetrahedron Letters 44 (2003) 7407*

Hironao Sajiki,\* Takashi Ikawa and Kosaku Hirota\*

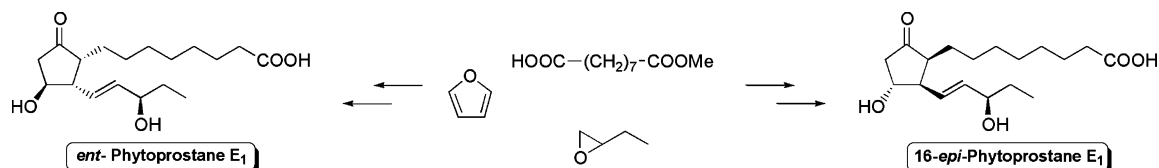
*Laboratory of Medicinal Chemistry, Gifu Pharmaceutical University, 5-6-1 Mitahora-higashi, Gifu 502-8585, Japan*

## First total synthesis of the E type I phytosteranes

*Tetrahedron Letters* 44 (2003) 7411

Ana R. Rodríguez and Bernd W. Spur\*

Department of Cell Biology, University of Medicine and Dentistry of New Jersey, SOM, Stratford, NJ 08084, USA



## Revised structure of tetrapetalone A and its absolute stereochemistry

*Tetrahedron Letters* 44 (2003) 7417

Toshikazu Komoda,<sup>a</sup> Yasumasa Sugiyama,<sup>a</sup> Naoki Abe,<sup>a</sup> Misako Imachi,<sup>b</sup> Hiroshi Hirota,<sup>c,d</sup> Hiroyuki Koshino<sup>e</sup> and Akira Hirota<sup>a,\*</sup>

<sup>a</sup>Laboratory of Applied Microbiology, School of Food and Nutritional Sciences, University of Shizuoka, Yada 52-1, Shizuoka 422-8526, Japan

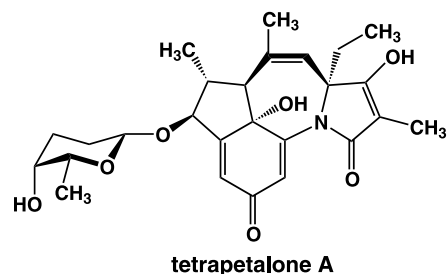
<sup>b</sup>Bruker BioSpin K. K., 3-21-5 Ninomiya, Tsukuba 305-0051, Japan

<sup>c</sup>Protein Research Group, RIKEN Genomics Sciences Center, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama 230-0045, Japan

<sup>d</sup>Science of Biological Supramolecular Systems, Yokohama City University, 1-7-29 Suehiro-cho, Tsurumi-ku, Yokohama 230-0045, Japan

<sup>e</sup>Molecular Characterization Team, Advanced D&S Center, RIKEN, 2-1 Hirosawa, Wako, Saitama 351-0198, Japan

The chemical structure of tetrapetalone A was revised by using the <sup>1</sup>H-<sup>15</sup>N HMBC technique, and its absolute stereochemistry was revealed.



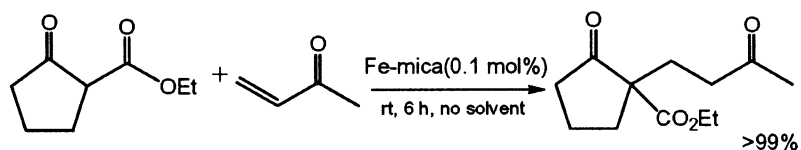
## Fe<sup>3+</sup>-exchanged fluorotetrasilic mica as an active and reusable catalyst for Michael reaction

*Tetrahedron Letters* 44 (2003) 7421

Ken-ichi Shimizu,<sup>a,\*</sup> Masato Miyagi,<sup>b</sup> Toshiki Kan-no,<sup>a</sup> Tatsuya Kodama<sup>b</sup> and Yoshie Kitayama<sup>b</sup>

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

<sup>b</sup>Department of Chemistry and Chemical Engineering, Faculty of Engineering, Niigata University, Ikarashi-2, Niigata 950-2181, Japan

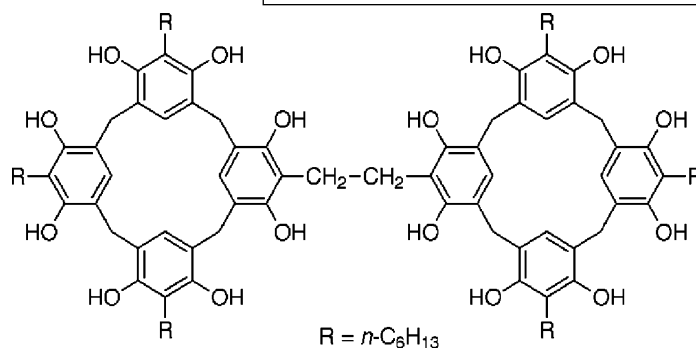


## Singly bridged double resorcin[4]arene bearing sixteen hydroxyl groups. Formation of capsular-type inclusion complexes in methanol

*Tetrahedron Letters* 44 (2003) 7425

Hisatoshi Konishi,<sup>\*</sup> Osamu Morikawa, Kazuhiro Kobayashi, Kazuyuki Abe and Atsushi Ohkubo

Department of Materials Science, Faculty of Engineering, Tottori University, 4-101 Koyama-minami, Tottori 680-8552, Japan

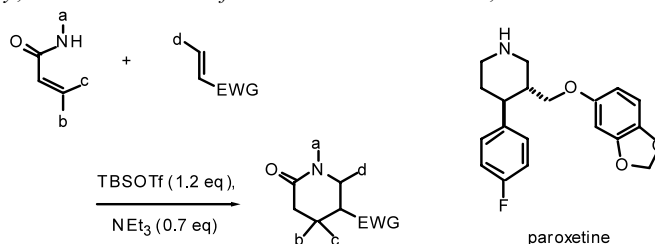


**A direct entry to substituted piperidinones from  $\alpha,\beta$ -unsaturated amides by means of aza double Michael reaction**

*Tetrahedron Letters 44 (2003) 7429*

Kiyosei Takasu,\* Naoko Nishida and Masataka Ihara\*

*Department of Organic Chemistry, Graduate School of Pharmaceutical Sciences, Tohoku University, Aobayama, Sendai 980-8578, Japan*

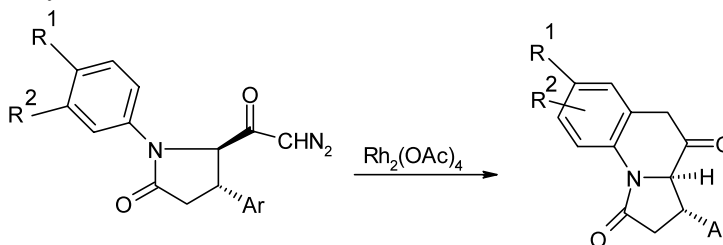


**Highly regioselective rhodium(II)-catalysed carbenoid insertion reaction into  $sp^2$  C–H bond: a general method for the synthesis of 3,3a-dihydro-2H,5H-pyrrolo[1,2-a]quinoline-1,4-dione ring system**

*Tetrahedron Letters 44 (2003) 7433*

Pranab Haldar, Gandhi K. Kar and Jayanta K. Ray\*

*Department of Chemistry, Indian Institute of Technology, Kharagpur 721302, India*

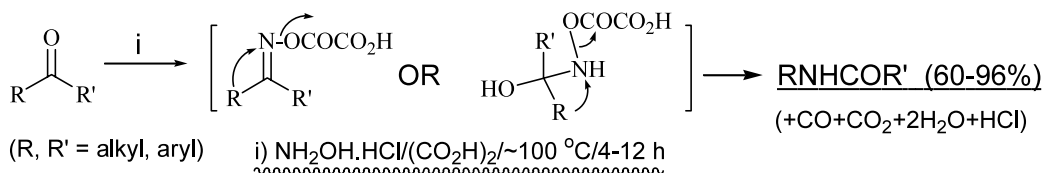


**Ketones to amides via a formal Beckmann rearrangement in ‘one pot’: a solvent-free reaction promoted by anhydrous oxalic acid. Possible analogy with the Schmidt reaction**

*Tetrahedron Letters 44 (2003) 7437*

Sosale Chandrasekhar\* and Kovuru Gopalaiah

*Department of Organic Chemistry, Indian Institute of Science, Bangalore 560 012, India*



**Synthesis of 3-substituted isoindolin-1-ones via a palladium-catalysed 3-component carbonylation/amination/Michael addition process**

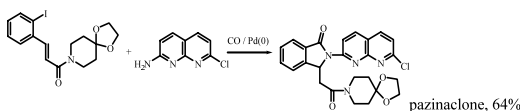
*Tetrahedron Letters 44 (2003) 7441*

Xinjie Gai,<sup>a</sup> Ronald Grigg,<sup>a,\*</sup> Tossapol Khamnaen,<sup>b</sup> Shuleewan Rajviroongit,<sup>b</sup> Visuvanathar Sridharan,<sup>a</sup> Lixin Zhang,<sup>a</sup> Simon Collard<sup>c</sup> and Ann Keep<sup>c</sup>

<sup>a</sup>*Molecular Innovation Diversity and Automated Synthesis (MIDAS) Centre, School of Chemistry, Leeds University, Leeds LS2 9JT, UK*

<sup>b</sup>*Department of Chemistry, Faculty of Science, Mahidol University, Rama 6 Road, Rajthevee, Bangkok 10400, Thailand*

<sup>c</sup>*Johnson Matthey, Orchard Road, Royston, Herts SG8, UK*



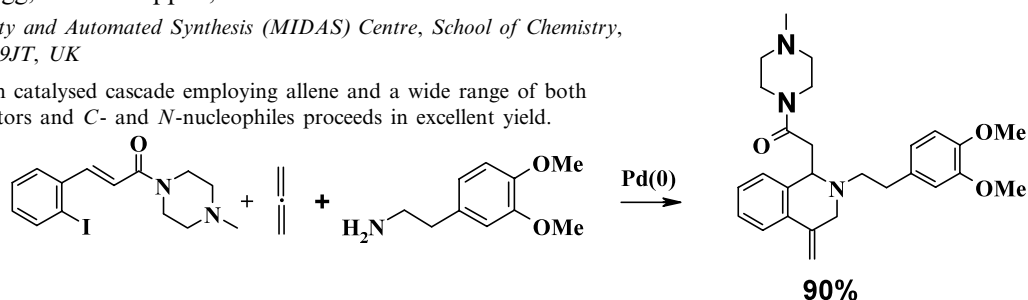
### Synthesis of carbo- and heterocycles via a palladium-catalysed allene insertion–nucleophile incorporation–Michael addition cascade

*Tetrahedron Letters* 44 (2003) 7445

Xinjie Gai, Ronald Grigg,\* Ines Köppen, John Marchbank and Visuvanathar Sridharan

*Molecular Innovation, Diversity and Automated Synthesis (MIDAS) Centre, School of Chemistry, Leeds University, Leeds LS2 9JT, UK*

A three-component palladium catalysed cascade employing allene and a wide range of both 2-(2'-iodoaryl)-Michael acceptors and C- and N-nucleophiles proceeds in excellent yield.



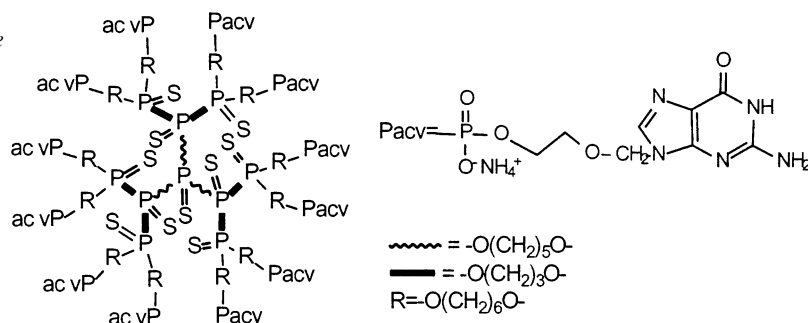
### Acyclovir terminated thiophosphate dendrimers

*Tetrahedron Letters* 44 (2003) 7449

Grzegorz M. Salamończyk\*

*Department of Heteroorganic Chemistry, Centre of Molecular and Macromolecular Studies, The Polish Academy of Sciences, Sienkiewicza 112, 90-363 Łódź, Poland*

Acyclovir was successfully grafted on the surface of thiophosphate dendrimers via thio- and phosphodiester linkages, providing water-soluble prodrug candidates.



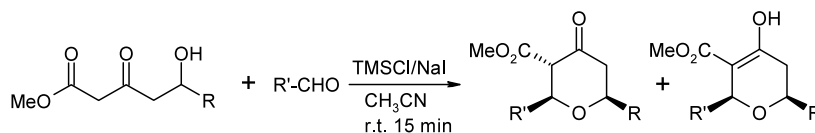
### Iodotrimethylsilane induced diastereoselective synthesis of tetrahydropyranones by a tandem Knoevenagel–Michael reaction

*Tetrahedron Letters* 44 (2003) 7455

Gowravaram Sabitha,<sup>a,\*</sup> G. S. Kiran Kumar Reddy,<sup>a</sup> M. Rajkumar,<sup>a</sup> J. S. Yadav,<sup>a</sup> K. V. S. Ramakrishna<sup>b</sup> and A. C. Kunwar<sup>b</sup>

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

<sup>b</sup>Centre for Nuclear Magnetic Resonance, Indian Institute of Chemical Technology, Hyderabad 500 007, India



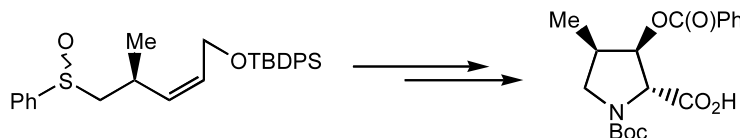
### Practical, efficient, stereoselective, formal synthesis of (2R,3R,4R)-3-hydroxy-4-methylproline

*Tetrahedron Letters* 44 (2003) 7459

Sadagopan Raghavan\* and S. Ramakrishna Reddy

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

A highly efficient and stereoselective synthesis of (2R,3R,4R)-HMP is disclosed.



## Regeneration of carbonyl compounds by cleavage of C=N bonds under mild and completely heterogeneous conditions

*Tetrahedron Letters* 44 (2003) 7463

F. Shirini,<sup>a,\*</sup> M. A. Zolfigol,<sup>b</sup> A. Safari,<sup>a</sup> I. Mohammadpoor-Baltork<sup>c</sup> and B. F. Mirjalili<sup>d</sup>

<sup>a</sup>Department of Chemistry, College of Science, Guilan University, Rasht, Iran

<sup>b</sup>Department of Chemistry, College of Science, Bu-Ali Sina University, Hamadan, Iran

<sup>c</sup>Department of Chemistry, College of Science, Isfahan University, Isfahan, Iran

<sup>d</sup>Department of Chemistry, College of Science, Yazd University, Yazd, Iran

Oximes, hydrazones, semicarbazones and azines are converted to the corresponding carbonyl compounds by a combination of  $\text{Zr}(\text{HSO}_4)_4$  and wet  $\text{SiO}_2$  in good to high yields under mild and completely heterogeneous conditions. Desemiacarbazonation proceeds selectively in the presence of oximes, hydrazones and azines at room temperature using small amounts of the reagent.

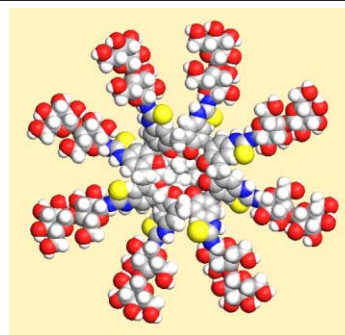
## Calix[8]arene-based glycoconjugates as multivalent carbohydrate-presenting systems

*Tetrahedron Letters* 44 (2003) 7467

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

<sup>a</sup>Istituto di Chimica Biomolecolare—Sezione di Catania, C.N.R., Via del Santuario 110, I-95028 Valverde (CT), Italy

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



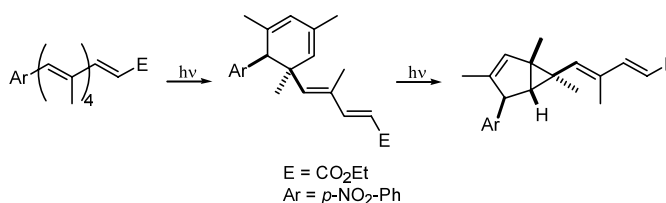
## Mechanistic evidence supporting the biosynthesis of photodeoxytridachione

*Tetrahedron Letters* 44 (2003) 7471

Sébastien Brückner,<sup>a</sup> Jack E. Baldwin,<sup>a,\*</sup> John Moses,<sup>a</sup> Robert M. Adlington<sup>a</sup> and Andrew R. Cowley<sup>b</sup>

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

<sup>b</sup>Chemical Crystallography, Oxford University, South Parks Road, Oxford OX1 3QR, UK

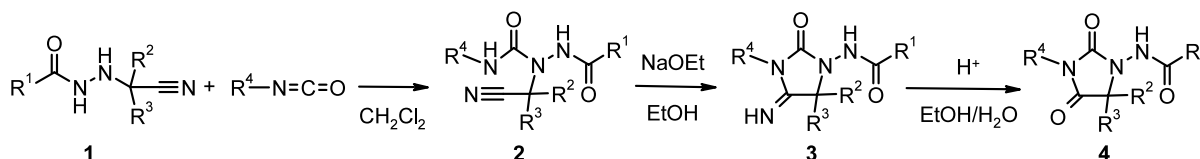


## A versatile method for the synthesis of substituted 1-aminohydantoin derivatives

*Tetrahedron Letters* 44 (2003) 7475

Iván Bélai<sup>\*</sup>

Plant Protection Institute, Hungarian Academy of Sciences, PO Box 102, H-1525 Budapest, Hungary



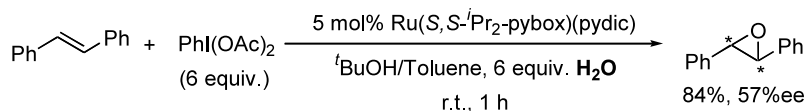
## An improved protocol for the ruthenium(pybox)-catalyzed asymmetric alkene epoxidation

*Tetrahedron Letters* 44 (2003) 7479

Man Kin Tse, Santosh Bhor, Markus Klawonn, Christian Döbler and Matthias Beller\*

*Leibniz-Institut für Organische Katalyse an der Universität Rostock e.V. (IfOK), Buchbinderstraße 5-6, D-18055 Rostock, Germany*

A significant rate enhancement of the Ru(pybox)-catalyzed epoxidation of stilbene was observed by careful control of the water content of the reaction mixture. This led to the development of a new general ruthenium-catalyzed epoxidation procedure.

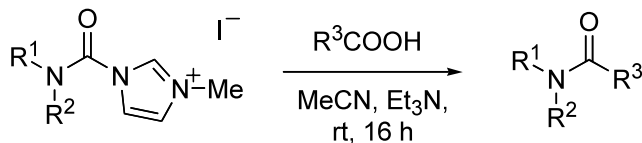


## Carbamoylimidazolium salts as diversification reagents: an application to the synthesis of tertiary amides from carboxylic acids

*Tetrahedron Letters* 44 (2003) 7485

Justyna A. Grzyb and Robert A. Batey\*

*Davenport Research Laboratories, Department of Chemistry, University of Toronto, 80 St. George Street, Toronto, Ontario, M5S 3H6, Canada*

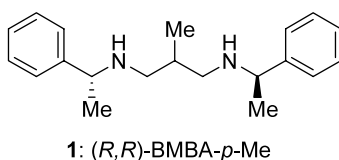


## Application of chiral bidentate NMR solvents for assignment of the absolute configuration of alcohols: scope and limitation

*Tetrahedron Letters* 44 (2003) 7489

Yoshihisa Kobayashi, Nobuyuki Hayashi and Yoshito Kishi\*

*Department of Chemistry and Chemical Biology, Harvard University, 12 Oxford Street, Cambridge, MA 02138, USA*



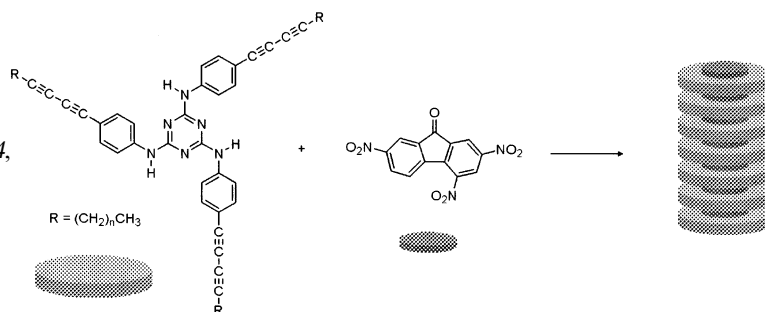
## Molecular ordering of photoreactive nonmesogenic 1,3,5-triazine compounds into columnar mesophases by charge transfer interaction

*Tetrahedron Letters* 44 (2003) 7493

Seung Ju Lee and Ji Young Chang\*

*School of Materials Science and Engineering, and Hyperstructured Organic Materials Research Center, College of Engineering ENG445, Seoul National University, Seoul 151-744, South Korea*

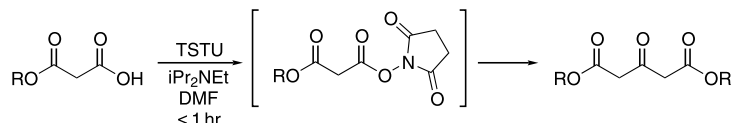
Charge transfer complexes of photoreactive nonmesogenic 1,3,5-triazine compounds with TNF assembled into columnar mesophases. Their UV-irradiation yielded oligomers.



# Self-condensation of activated malonic acid half esters: a model for the decarboxylative Claisen condensation in polyketide biosynthesis

Youngha Ryu and A. Ian Scott\*

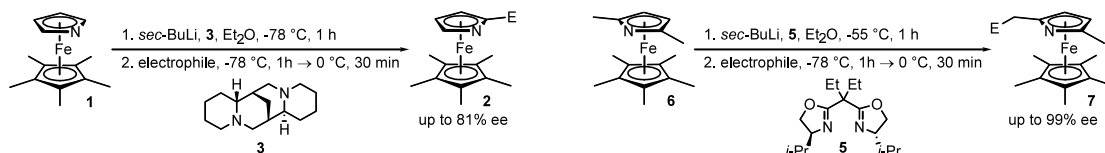
Center for Biological NMR, Department of Chemistry, Texas A&M University, College Station, TX 77843, USA



# Enantioselective synthesis of planar chiral azaferrocenes via chiral ligand-mediated ring- and lateral-lithiations

Tsutomu Fukuda, Kengo Imazato and Masatomo Iwao\*

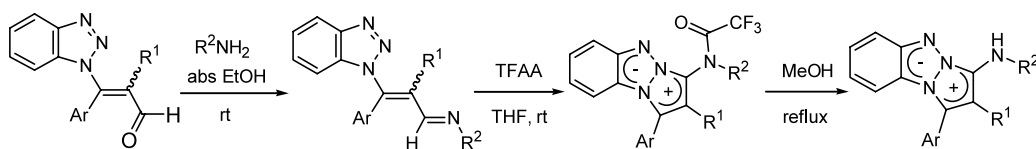
Department of Applied Chemistry, Faculty of Engineering, Nagasaki University, 1-14 Bunkyo-machi, Nagasaki 852-8521, Japan



# A novel synthesis of 4,5-diaryl-6-arylamino-2,3-benzo-1,3a,6a-triazapentalenes

Yu-Ah Choi, Kyongtae Kim\* and Young Ja Park

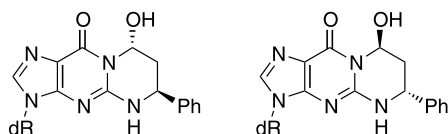
School of Chemistry and Molecular Engineering, Seoul National University, Seoul 151-742, South Korea



# Stereoselective synthesis of the 1,N<sup>2</sup>-deoxyguanosine adducts of cinnamaldehyde. A stereocontrolled route to deoxyguanosine adducts of α,β-unsaturated aldehydes

Mansoureh Rezaei, Thomas M. Harris and Carmelo J. Rizzo\*

Department of Chemistry and Center in Molecular Toxicology, Vanderbilt University, VU Station B 351822, Nashville, TN 37235-1822, USA

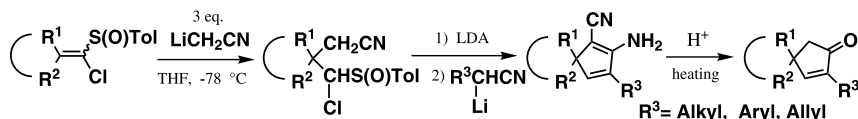


**A novel synthesis of 2,4,4-trisubstituted 2-cyclopentenones by consecutive reaction of 1-chlorovinyl *p*-tolyl sulfoxides with acetonitrile and its homologues**

*Tetrahedron Letters* 44 (2003) 7517

Tsuyoshi Satoh\* and Daisuke Wakasugi

*Department of Chemistry, Faculty of Science, Tokyo University of Science, Kagurazaka, Shinjuku-ku, Tokyo 162-8601, Japan*

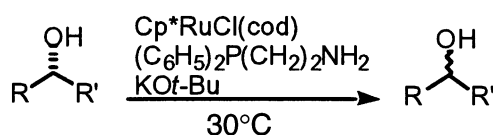


**Rapid racemization of chiral non-racemic *sec*-alcohols catalyzed by ( $\eta^5$ -C<sub>5</sub>(CH<sub>3</sub>)<sub>5</sub>)Ru complexes bearing tertiary phosphine–primary amine chelate ligands**

*Tetrahedron Letters* 44 (2003) 7521

Masato Ito, Akihide Osaku, Sachiko Kitahara, Makoto Hirakawa and Takao Ikariya\*

*Department of Applied Chemistry, Graduate School of Science and Engineering and Frontier Collaborative Research Center, Tokyo Institute of Technology, 2-12-1 O-okayama, Meguro-ku, Tokyo 152-8552, Japan*

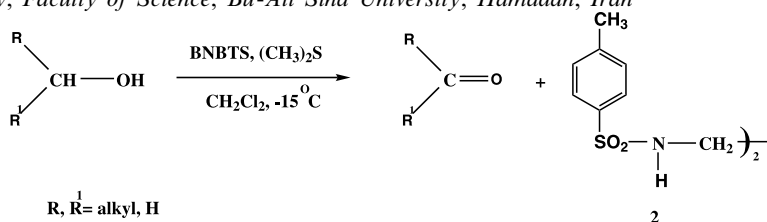


**The application of *N,N'*-dibromo-*N,N'*-1,2-ethanediylbis-(*p*-toluenesulphonamide) as a powerful reagent for the oxidation of primary and secondary alcohols to aldehydes and ketones**

*Tetrahedron Letters* 44 (2003) 7525

Ramin Ghorbani-Vaghei\* and Ardeshtir Khazaei

*Department of Chemistry, Faculty of Science, Bu-Ali Sina University, Hamadan, Iran*

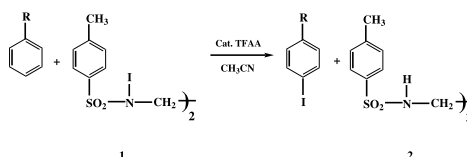


**Mild and regioselective iodination of aromatic compounds with *N,N'*-diiodo-*N,N'*-1,2-ethanediylbis(*p*-toluenesulphonamide)**

*Tetrahedron Letters* 44 (2003) 7529

Ramin Ghorbani-Vaghei\*

*Department of Chemistry, Faculty of Science, Bu-Ali Sina University, Hamadan, Iran*





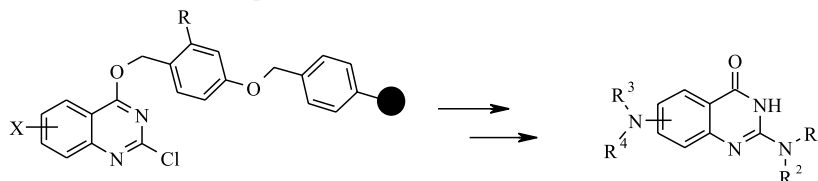
### Solid-phase synthesis of 2,6- and 2,7-diamino-4(3*H*)-quinazolinones via palladium-catalyzed amination

*Tetrahedron Letters* 44 (2003) 7533

Csaba Wéber,\* Ádám Demeter, Györgyi I. Szendrei and István Greiner

*Chemical and Biotechnological Research and Development, Gedeon Richter Ltd, PO Box 27, H-1475 Budapest, Hungary*

X = Cl, Br; R = H, MeO; NR<sup>1</sup>R<sup>2</sup> and NR<sup>3</sup>R<sup>4</sup> = primary or secondary amines.

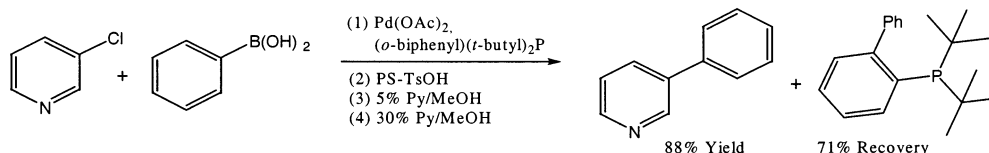


### Selective catch and release of a synthetically useful phosphine ligand

*Tetrahedron Letters* 44 (2003) 7537

Jennifer L. Marugg, Martin L. Neitzel\* and John Tucker\*

*Elan Pharmaceuticals, South San Francisco, CA 94080, USA*

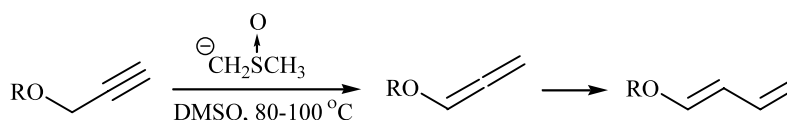


### Formation of (*E*) 1-alkoxy-1,3-butadienes from corresponding propargyl ethers; vicarious nucleophilic substitution in alkoxyallenes

*Tetrahedron Letters* 44 (2003) 7541

Robert Łysek, Ewa Woźny, Tong Thanh Danh and Marek Chmielewski\*

*Institute of Organic Chemistry Polish Academy of Sciences, Kasprzaka 44/52, 01-224 Warsaw, Poland*



### Dramatic increase in the rate of the Mukaiyama aldol reaction by 'fluorous nano flow' system in the lowest concentration of a fluororous catalyst

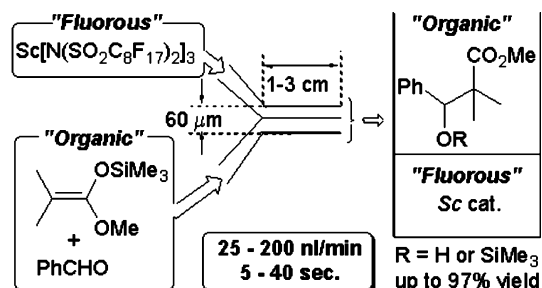
*Tetrahedron Letters* 44 (2003) 7545

Koichi Mikami,<sup>a,\*</sup> Masahiro Yamanaka,<sup>a</sup> Md. Nazrul Islam,<sup>a</sup> Kenichi Kudo,<sup>b</sup> Nobuko Seino<sup>c</sup> and Masaki Shinoda<sup>c</sup>

<sup>a</sup>*Department of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology, 2-12-1 O-okayama, Meguro-ku, Tokyo 152-8552, Japan*

<sup>b</sup>*KYA Technologies Corporation, 16-4 Kawa-machi, Hachioji-city, Tokyo 191-0154, Japan*

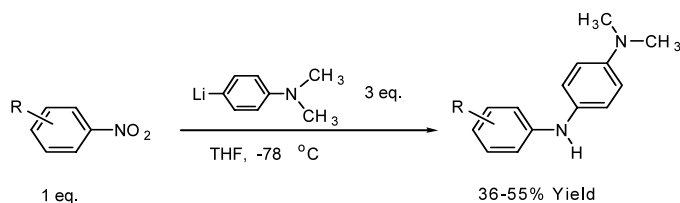
<sup>c</sup>*Fuji Electric Co. Ltd, 1 Fuji-machi, Hino-city, Tokyo 191-8502, Japan*



# Preparation of diarylamines by the addition of 4-(*N,N*-dimethylamino)phenyllithium to nitroarenes

Tianle Yang and Bongsup P. Cho\*

Department of Biomedical Sciences, College of Pharmacy, University of Rhode Island, Kingston, RI 02881, USA



# Efficient preparation of (*Z*)-alkenyl derivatives from (*Z*)-vinyl (*N,N*-diisopropyl)carbamate via Ni-catalysed coupling reactions

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