

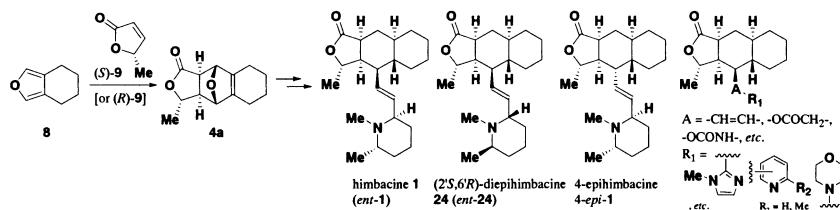
## Synthetic studies of himbacine, a potent antagonist of the muscarinic M<sub>2</sub> subtype receptor 1. Stereoselective total synthesis and antagonistic activity of enantiomeric pairs of himbacine and (2'S,6'R)-diepihimbacine, 4-epihimbacine, and novel himbacine congeners

Tetrahedron 58 (2002) 9903

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<sup>b</sup>Sagami Chemical Research Center,  
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Japan

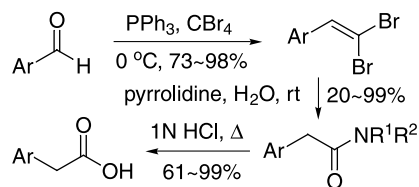


## An efficient method for one-carbon elongation of aryl aldehydes via their dibromoalkene derivatives

Tetrahedron 58 (2002) 9925

Dal Ho Huh, Ji Sang Jeong, Hee Bong Lee, Hoejin Ryu and Young Gyu Kim\*

School of Chemical Engineering, College of Engineering, Seoul National University, Seoul 151-744, South Korea

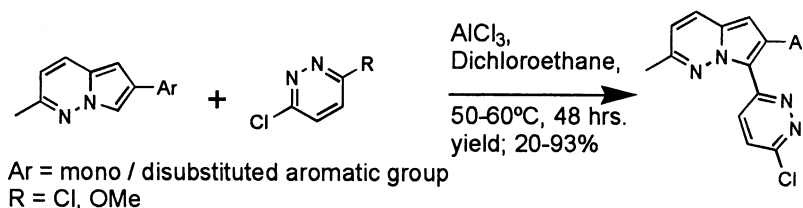


## Regioselective aluminium chloride induced heteroarylation of pyrrolo[1,2-*b*]pyridazines: its scope and application

Tetrahedron 58 (2002) 9933

Manojit Pal,\* Venkateswara Rao Batchu, Smriti Khanna and Koteswar Rao Yeleswarapu\*

Chemistry Discovery Research, Dr Reddy's Laboratories Ltd, Bollaram Road, Miyapur, Hyderabad 500050, India

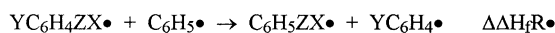


## An AM1 study of the effect of substituents on the bond dissociation energies of anilines, phenols, and $\alpha$ -substituted toluenes

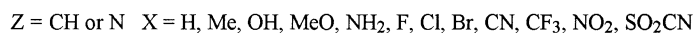
Tetrahedron 58 (2002) 9941

Gerritt P. Bean

Department of Chemistry and Biochemistry, University of Colorado at Boulder, Boulder, CO 80309-0215, USA



$$\Delta\Delta\text{BDE} = \Delta\Delta\text{H}_f\text{RH} - \Delta\Delta\text{H}_f\text{R}\cdot$$



## Modified peptides from a water bloom of the cyanobacterium

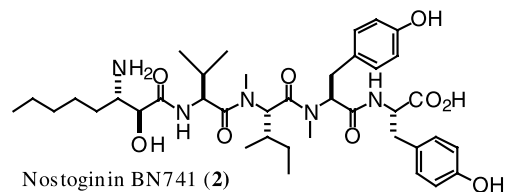
Tetrahedron 58 (2002) 9949

### *Nostoc* sp.

Alexei Ploutno and Shmuel Carmeli\*

School of Chemistry, Raymond and Beverly Sackler Faculty of Exact Sciences, Tel Aviv University, Ramat Aviv Tel Aviv 69978, Israel

Six new metabolites were isolated from the hydrophilic extract of a *Nostoc* sp. water bloom that was collected from the spring pool of the Banyas stream, in northern Israel.



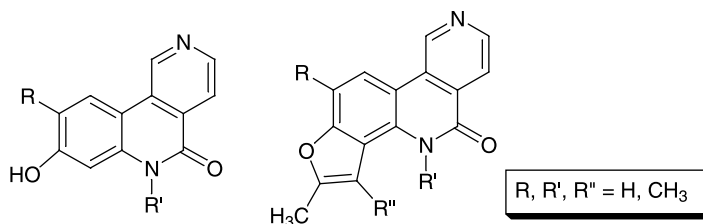
## Synthesis of some benzo[*c*][2,6]naphthyridin-5-ones and new tetracyclic benzofuro[4,5-*c*]-2,6-naphthyridin-5(6*H*)-ones

Tetrahedron 58 (2002) 9959

Adriana Chilin,<sup>a,\*</sup> Paolo Manzini,<sup>a</sup> Alessia Confente,<sup>a</sup> Giovanni Pastorini<sup>b</sup> and Adriano Guiotto<sup>a</sup>

<sup>a</sup>Dipartimento di Scienze Farmaceutiche, Università degli Studi di Padova, Via Marzolo 5, I-35131 Padova, Italy

<sup>b</sup>Istituto di Chimica Biomolecolare del CNR—Sezione di Padova, Via Marzolo 3, I-35131 Padova, Italy



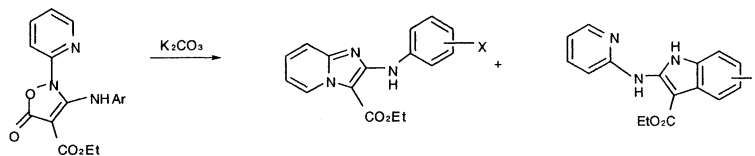
## 2-Aryl-3-arylaminoisoxazol-5(2*H*)-ones as sources of indoles and imidazo[1,2-*a*]pyridines

Tetrahedron 58 (2002) 9965

David Jeffery,<sup>a</sup> Rolf H. Prager,<sup>a,\*</sup> David Turner<sup>b</sup> and Monica Dreimanis<sup>b</sup>

<sup>a</sup>School of Chemistry, Physics and Earth Sciences, Flinders University of South Australia, G.P.O. Box 2100, Adelaide, SA 5001, Australia

<sup>b</sup>School of Medicine, Flinders University, G.P.O. Box 2100, Adelaide, SA 5001, Australia

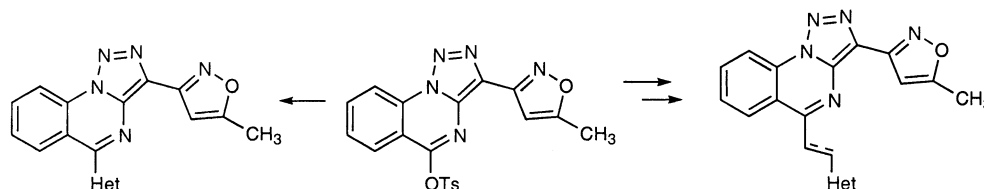


## Rapid analogue synthesis of C-5 substituted 1,2,3-triazolo-[1,5-*a*]quinazolines

Tetrahedron 58 (2002) 9973

Philip Jones\* and Mark Chambers

Department of Medicinal Chemistry, Merck, Sharp and Dohme Research Laboratories, Neuroscience Research Centre, Terlings Park, Harlow CM20 2QR, UK

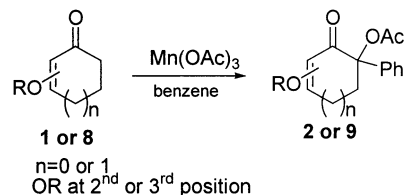


## Manganese(III) acetate based tandem oxidation of various $\alpha$ and $\beta$ -alkoxy $\alpha,\beta$ -unsaturated ketones

Cihangir Tanyeli,\* Devrim Özdemirhan and Bengü Sezen

Department of Chemistry, Middle East Technical University, 06531 Ankara, Turkey

Mn(OAc)<sub>3</sub> based tandem oxidation of various  $\alpha$  and  $\beta$ -alkoxy  $\alpha,\beta$ -unsaturated ketones in benzene afforded the corresponding  $\alpha'$ -acetoxy- $\alpha'$ -phenyl substituted oxidation products in good yields.



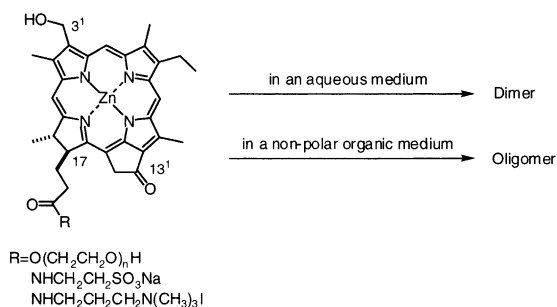
Tetrahedron 58 (2002) 9983

## Synthesis and self-assembly of amphiphilic zinc chlorins possessing a 3<sup>1</sup>-hydroxy group

Tomohiro Miyatake,<sup>a</sup> Hitoshi Tamiaki,<sup>b,\*</sup> Hiroyuki Shinoda,<sup>b</sup> Manabu Fujiwara<sup>a</sup> and Takayuki Matsushita<sup>a</sup>

<sup>a</sup>Department of Materials Chemistry, Faculty of Science and Technology, Ryukoku University, Otsu, Shiga 520-2194, Japan

<sup>b</sup>Department of Bioscience and Biotechnology, Faculty of Science and Engineering, Ritsumeikan University, Kusatsu, Shiga 525-8577, Japan



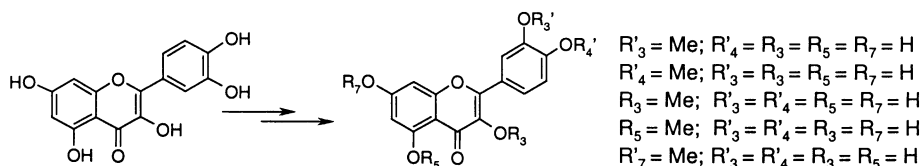
Tetrahedron 58 (2002) 9989

## Hemisynthesis of all the *O*-monomethylated analogues of quercetin including the major metabolites, through selective protection of phenolic functions

Mohamed Bouktaib,<sup>a,b</sup> Stéphane Lebrun,<sup>a</sup> Aziz Atmani<sup>b</sup> and Christian Rolando<sup>a,\*</sup>

<sup>a</sup>Université des Sciences et Technologies de Lille, Equipe Polyphénols, UMR CNRS 8009, Bâtiment C4, 59655 Villeneuve d'Ascq Cedex, France

<sup>b</sup>Département de Chimie, Faculté des Sciences D. Mehraz, Université Sidi Mohamed Ben Abdellah, P.O. Box 1796, Fès-Atlas, Morocco



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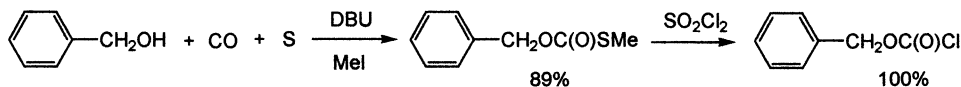
## Benzyl chloroformate (CbzCl) synthesis using carbon monoxide as a carbonyl source

Takumi Mizuno,<sup>a,\*</sup> Junko Takahashi<sup>b</sup> and Akiya Ogawa<sup>b</sup>

<sup>a</sup>Osaka Municipal Technical Research Institute, 1-6-50, Morinomiya, Joto-ku, Osaka 536-8553, Japan

<sup>b</sup>Department of Chemistry, Faculty of Science, Nara Women's University, Kitaoyanishi-machi, Nara 630-8506, Japan

Benzyl chloroformate (CbzCl) was synthesized by combining the carbonylation of benzyl alcohol with carbon monoxide and sulfur (or carbonyl sulfide) in the presence of DBU, with the chlorination using sulfuryl chloride.



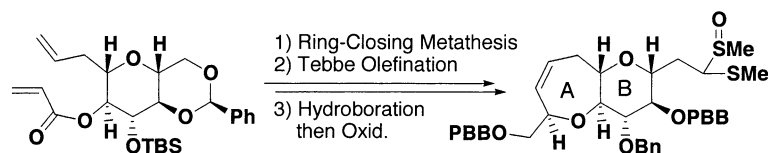
Tetrahedron 58 (2002) 10011

## Synthesis of the AB-ring segment for the convergent construction of the left half in ciguatoxin

Hideki Tanaka, Kentaro Kawai, Kenshu Fujiwara\* and Akio Murai\*

Division of Chemistry, Graduate School of Science, Hokkaido University, Sapporo 060-0810, Japan

Tetrahedron 58 (2002) 10017



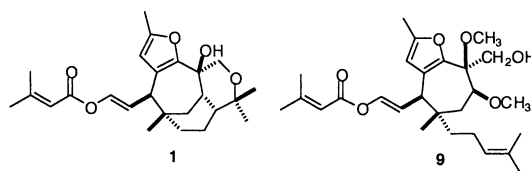
## Structures of furanovibsanins A–G from *Viburnum awabuki*

Yoshiyasu Fukuyama,\* Miwa Kubo, Takako Fujii, Asami Matsuo, Yuka Minoshima, Hiroyuki Minami and Mai Morisaki

Faculty of Pharmaceutical Sciences, Institute of Pharmacognosy, Tokushima Bunri University, Yamashiro-cho, Tokushima 770-8514, Japan

Nine new 7-membered ring vibsanane-type diterpenes, furanovibsanins A (1)–G (9) were isolated from the leaves of *Viburnum awabuki*, and their structures were elucidated based on spectroscopic data.

Tetrahedron 58 (2002) 10033

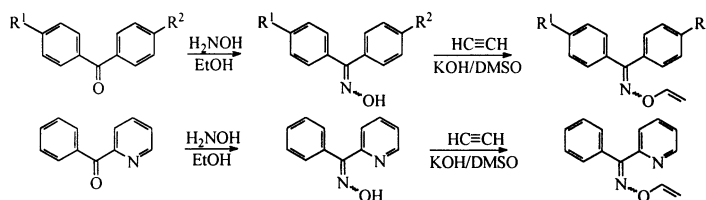


## *O*-Vinyl diaryl- and *O*-vinyl aryl(hetaryl)ketoximes: a breakthrough in *O*-vinyl oxime chemistry

Alexey B. Zaitsev, Alexander M. Vasil'tsov, Elena Yu. Schmidt, Al'bina I. Mikhaleva, Ludmila V. Morozova, Andrey V. Afonin, Igor' A. Ushakov and Boris A. Trofimov\*

A. E. Favorsky Irkutsk Institute of Chemistry, Siberian Branch of the Russian Academy of Sciences, 1, Favorsky Street, Irkutsk 664033, Russian Federation

Tetrahedron 58 (2002) 10043

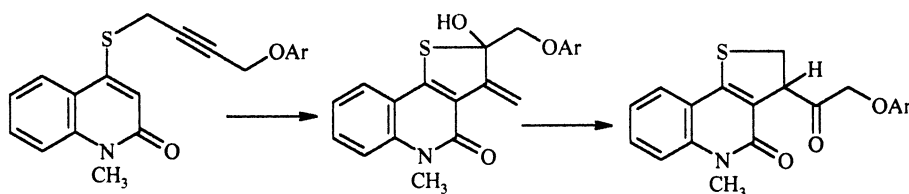


## Tandem cyclization: one pot regioselective synthesis of thieno[3,2-*c*]quinolin-4(5*H*)-one derivatives

K. C. Majumdar\* and M. Ghosh

Department of Chemistry, University of Kalyani, Kalyani 741 235, W.B., India

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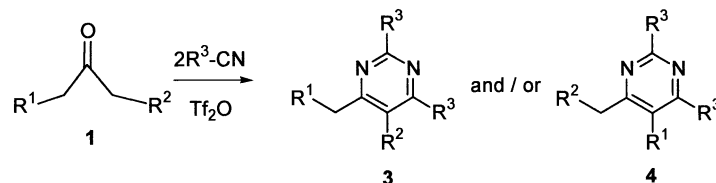
**On the regioselectivity in the reaction of aliphatic ketones and aromatic nitriles. Regiospecific synthesis of alkylarylpyrimidines**

*Tetrahedron 58 (2002) 10053*

Antonio Herrera,<sup>a,\*</sup> Roberto Martínez-Álvarez,<sup>a</sup> Mourad Chioua,<sup>a</sup> Rachid Chioua<sup>a</sup> and Ángel Sánchez<sup>b,\*</sup>

<sup>a</sup>Departamento de Química Orgánica, Facultad de Ciencias Químicas, Universidad Complutense, E-28040 Madrid, Spain

<sup>b</sup>CAI de Resonancia Magnética Nuclear, Facultad de Ciencias Químicas, Universidad Complutense de Madrid, E-28040 Madrid, Spain

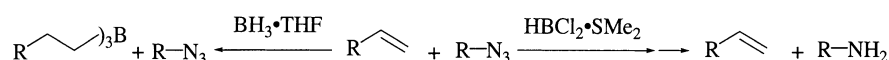


**Selective reductions. Part 60: Chemoselective reduction of organyl azides with dichloroborane–dimethyl sulfide**

*Tetrahedron 58 (2002) 10059*

Ashok M. Salunkhe, P. Veeraraghavan Ramachandran\* and Herbert C. Brown\*

Department of Chemistry, Herbert C. Brown Center for Borane Research, Purdue University, West Lafayette, IN 47907-2038, USA

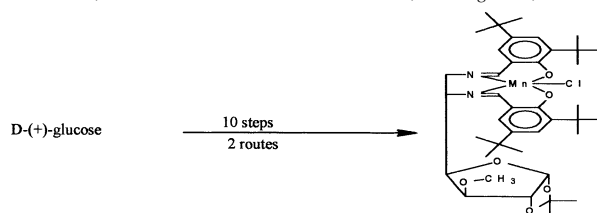


**Mild and efficient synthesis of 5,6-diamino-5,6-dideoxy-1,2-O-isopropylidene-3-O-methyl-β-L-idofuranose: precursor of the first carbohydrate-derived chiral Mn(III)–salen complex**

*Tetrahedron 58 (2002) 10065*

Shanhong Yan and Dieter Klemm\*

Institut für Organische und Makromolekulare Chemie, Friedrich-Schiller-Universität Jena, Lessingstr. 8, D-07743 Jena, Germany

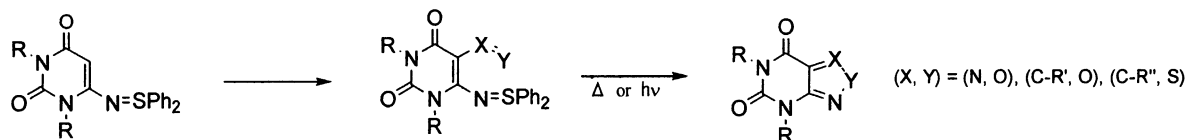


**Ring closure reactions of β-nitroso-, β-acyl-, and β-thiocarbamoyl-α,β-unsaturated sulfilimines. Synthesis of [1,2,5]oxadiazolo[3,4-d]-, isoxazolo[3,4-d]-, and isothiazolo[3,4-d]pyrimidine derivatives from uracils**

*Tetrahedron 58 (2002) 10073*

Nobuaki Matsumoto and Masahiko Takahashi\*

Department of Materials Science, Faculty of Engineering, Ibaraki University, Hitachi, Ibaraki 316-8511, Japan



# Synthesis and reactivity of a new functionalized and highly pyramidalized alkene containing the bisnoradamantane skeleton

*Tetrahedron 58 (2002) 10081*

Pelayo Camps,\* Xavier Pujol and Santiago Vázquez

*Laboratori de Química Farmacèutica (Unitat Associada al CSIC), Facultat de Farmàcia, Universitat de Barcelona, Av. Diagonal 643, Barcelona E-08028, Spain*

