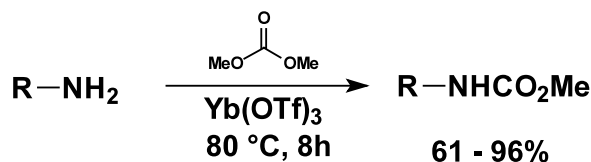
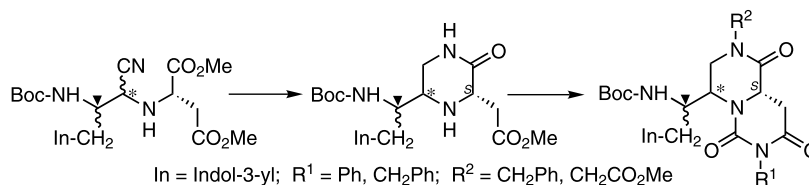


**Carbamate synthesis from amines and dimethyl carbonate under ytterbium triflate catalysis***Tetrahedron Letters 43 (2002) 4895*

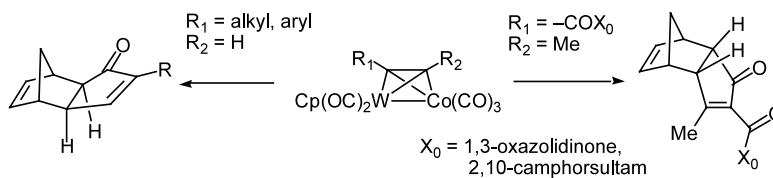
Massimo Curini,\* Francesco Epifano,\* Federica Maltese and Ornelio Rosati

*Dipartimento di Chimica e Tecnologia del Farmaco, Sezione di Chimica Organica, Università degli Studi, Via del Liceo, 06123 Perugia, Italy***Synthesis of chiral 1,6,8-trioxoperhydropyrazino[1,2-c]pyrimidines as novel highly functionalized scaffolds for peptidomimetics***Tetrahedron Letters 43 (2002) 4899*

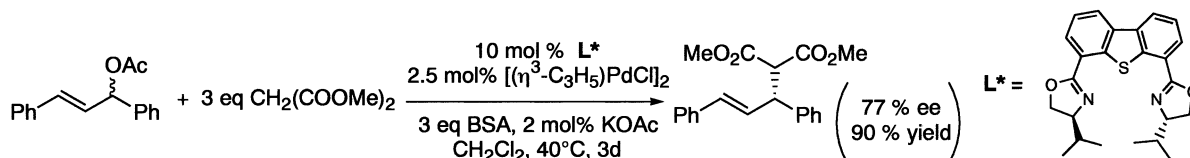
Susana Herrero, Antonio Salgado, M. Teresa García-López and Rosario Herranz\*

*Instituto de Química Médica (CSIC), Juan de la Cierva 3, E-28006 Madrid, Spain***Heterobimetallic (Co–W) intermolecular Pauson–Khand reactions: scope and selectivity***Tetrahedron Letters 43 (2002) 4903*

Ramon Rios, Miquel A. Pericàs and Albert Moyano\*

*Unitat de Recerca en Síntesi Asimètrica, Departament de Química Orgànica, Facultat de Química, Universitat de Barcelona, Martí i Franquès, 1-11, 08028 Barcelona, Spain***Dibenzothiophene-bis(oxazolines): new sulfur-containing ligands tested in asymmetric palladium-catalyzed allylic substitutions***Tetrahedron Letters 43 (2002) 4907*

Arnaud Voituriez, Jean-Claude Fiaud and Emmanuelle Schulz\*

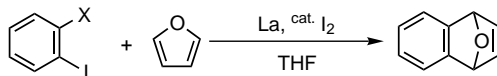
*Laboratoire de Catalyse Moléculaire, Institut de Chimie Moléculaire d'Orsay, Université Paris-Sud, UPRESA CNRS 8075, Bât 420, 91405 Orsay cedex, France*

## Reaction of 1,2-dihalogen substituted arenes with lanthanum metal: a new generation method of benzyne

*Tetrahedron Letters* 43 (2002) 4911

Hiroshi Kawabata, Toshiki Nishino, Yutaka Nishiyama\* and Noboru Sonoda\*

*Department of Applied Chemistry, Faculty of Engineering, Kansai University, Suita, Osaka 564-8680, Japan*



## Palladium(II)-mediated cyclization–carbonylation of 4-yn-1-ones: facile access to 2-cyclopentenone carboxylates

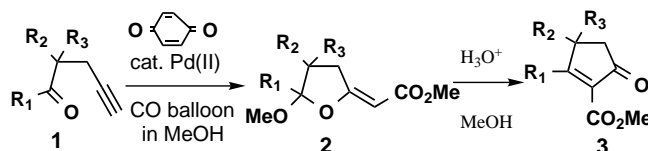
*Tetrahedron Letters* 43 (2002) 4915

Keisuke Kato,<sup>a,\*</sup> Yasuhiro Yamamoto<sup>b</sup> and Hiroyuki Akita<sup>a,\*</sup>

<sup>a</sup>*School of Pharmaceutical Sciences, Toho University, 2-2-1 Miyama, Funabashi, Chiba 274-8510, Japan*

<sup>b</sup>*Department of Chemistry, Faculty of Science, Toho University, 2-2-1 Miyama, Funabashi, Chiba 274-8510, Japan*

The oxidative cyclization–carbonylation of 4-yn-1-ones **1** in the presence of (CH<sub>3</sub>CN)<sub>2</sub>PdCl<sub>2</sub>/*p*-benzoquinone in methanol under a carbon monoxide atmosphere (balloon) afforded cyclic-ketals **2** in good to moderate yields. The product **2** were easily converted into 2-cyclopentenone carboxylates **3**.



## Photoinduced electron transfer within porphyrin–cyclodextrin conjugates

*Tetrahedron Letters* 43 (2002) 4919

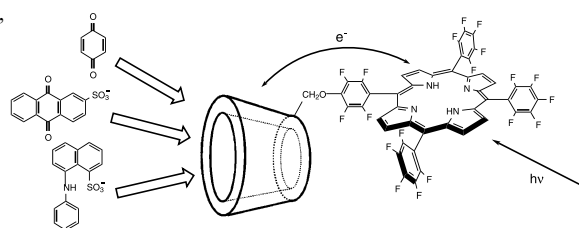
Kamil Lang,<sup>a,\*</sup> Vladimír Král,<sup>b</sup> Petr Kapusta,<sup>c</sup> Pavel Kubát<sup>d</sup> and Petr Vašek<sup>b</sup>

<sup>a</sup>*Institute of Inorganic Chemistry, Academy of Sciences of the Czech Republic, 250 68 Rež, Czech Republic*

<sup>b</sup>*Institute of Chemical Technology, Technická 5, 166 28 Praha 6, Czech Republic*

<sup>c</sup>*Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University, V Holešovičkách 2, 180 00 Praha 8, Czech Republic*

<sup>d</sup>*J. Heyrovský Institute of Physical Chemistry, Academy of Sciences of the Czech Republic, Dolejškova 3, 182 23 Praha 8, Czech Republic*



The synthetic procedure offers versatile molecular conjugates of porphyrins bearing one or more cyclodextrin units that are suitable for systematic investigation of photoinduced processes within noncovalently bound supramolecular systems.

## A new route to 6,6'-dicyano-2,2':6',2''-terpyridines and their complexes with Ni(II)

*Tetrahedron Letters* 43 (2002) 4923

Dmitry N. Kozhevnikov,<sup>a,\*</sup> Valery N. Kozhevnikov,<sup>a,\*</sup>

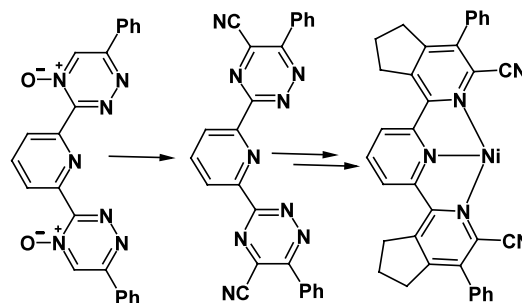
Tatiana V. Nikitina,<sup>a</sup> Vladimir L. Rusinov,<sup>a</sup>

Oleg N. Chupakhin,<sup>a</sup> Igor L. Eremenko<sup>b</sup> and

Grigory G. Aleksandrov<sup>b</sup>

<sup>a</sup>*Urals State Technical University, 620002 Ekaterinburg, Russia*

<sup>b</sup>*Institute of General and Inorganic Chemistry, Moscow, Russia*



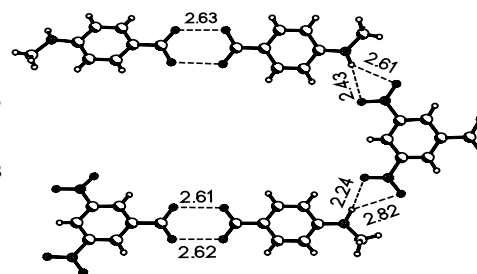
**Unique homo and hetero carboxylic acid dimer-mediated supramolecular assembly: rational analysis of the crystal structure of 3,5-dinitrobenzoic acid and 4-(N-methylamino)benzoic acid**

V. R. Pedireddi\* and J. PrakashaReddy

*Division of Organic Chemistry, National Chemical Laboratory, Pune 411 008, India*

3,5-Dinitrobenzoic acid and 4-(N-methylamino)benzoic acid form co-crystals comprising homo and hetero carboxylic dimers that can be rationalized through acceptor-donor interactions between -NO<sub>2</sub> and -NH(CH<sub>3</sub>) groups.

*Tetrahedron Letters 43 (2002) 4927*



**An asymmetric synthesis of a 4-substituted-1,4-dihydropyridine**

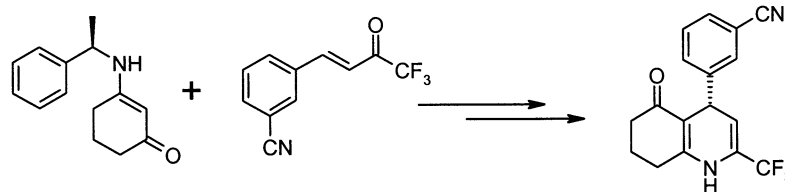
Ian Ashworth,<sup>a</sup> Phillip Hopes,<sup>b</sup> Danny Levin,<sup>c</sup> Ian Patel<sup>b,\*</sup> and Rashida Salloo<sup>a</sup>

<sup>a</sup>*Syngenta, Technology and Projects, Huddersfield Manufacturing Centre, PO Box A38, Huddersfield HD2 1FF, UK*

<sup>b</sup>*AstraZeneca, Process Research and Development, Avlon Works, Hallen, Bristol BS10 7ZE, UK*

<sup>c</sup>*AstraZeneca, Process Research and Development, Silk Road Business Park, Macclesfield SK10 2NA, UK*

*Tetrahedron Letters 43 (2002) 4931*

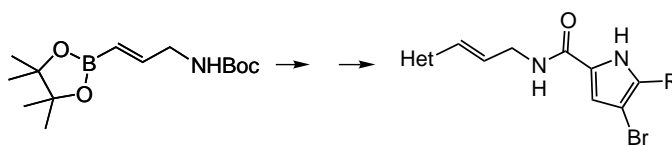


**Synthesis of the marine sponge alkaloid oroidin and its analogues via Suzuki cross-coupling reactions**

Fabienne Berrée, Pascale Girard-Le Bleis and Bertrand Carboni\*

*Synthèse et Electrosynthèse Organiques, UMR CNRS 6510, Bat 10A, Institut de Chimie, Université de Rennes 1, Campus de Beaulieu, F-35042 Rennes CEDEX, France*

*Tetrahedron Letters 43 (2002) 4935*

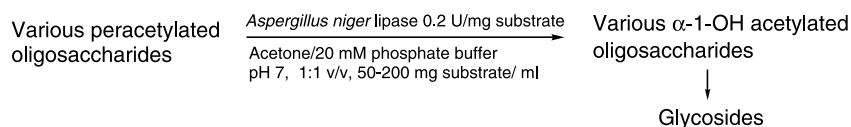


**Freeing anomeric hydroxyl groups of peracetylated oligosaccharides by *Aspergillus niger* lipase**

Assunta Giordano and Antonio Trincone\*

*Istituto di Chimica Biomolecolare C.N.R., Via Campi Flegrei, 34 80072 Pozzuoli, Napoli, Italy*

*Tetrahedron Letters 43 (2002) 4939*

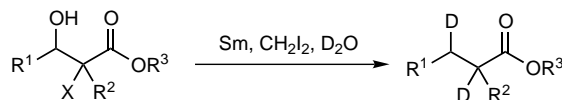


## Synthesis of 2,3-dideuterioesters from 2-halo-3-hydroxyesters by using metallic samarium and diiodomethane

*Tetrahedron Letters* 43 (2002) 4943

José M. Concellón\* and Mónica Huerta

*Departamento de Química Orgánica e Inorgánica, Facultad de Química, Universidad de Oviedo, Julián Clavería, 8, 33071 Oviedo, Spain*



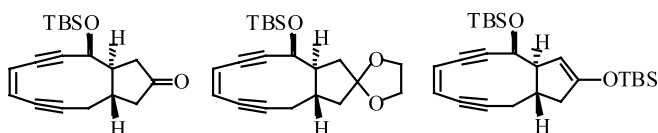
## A simple synthesis and evaluation of the bicyclo[8.3.0] enediyne framework

*Tetrahedron Letters* 43 (2002) 4947

M. F. Semmelhack,\* Mark Jaskowski, Richmond Sarpong and Douglas M. Ho

*Department of Chemistry, Princeton University, Princeton, NJ 08544, USA*

A *trans* bicyclo[8.3.0] framework as a potential functional model for the enediyne roxins has been designed, synthesized, and evaluated in the cycloaromatization reaction, comparing with simple predictions.

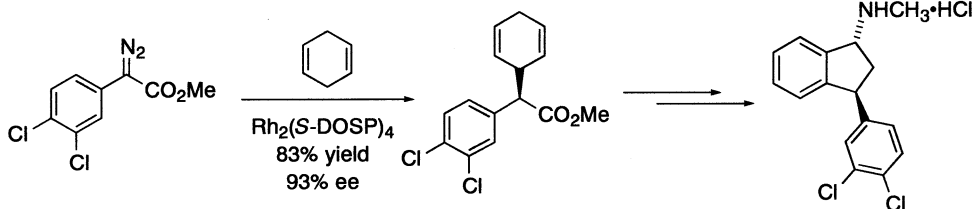


## Asymmetric synthesis of (+)-indatraline using rhodium-catalyzed C–H activation

*Tetrahedron Letters* 43 (2002) 4951

Huw M. L. Davies\* and Timothy M. Gregg

*Department of Chemistry, University at Buffalo, State University of New York, Buffalo, NY 14260-3000, USA*

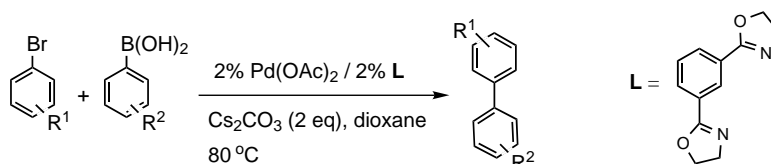


## Pd(OAc)<sub>2</sub>/2-aryl-2-oxazolines catalyzed Suzuki coupling reactions of aryl bromides and arylboronic acids

*Tetrahedron Letters* 43 (2002) 4955

Bin Tao and David W. Boykin\*

*Department of Chemistry, Center for Biotechnology and Drug Design, Georgia State University, Atlanta, GA 30303, USA*

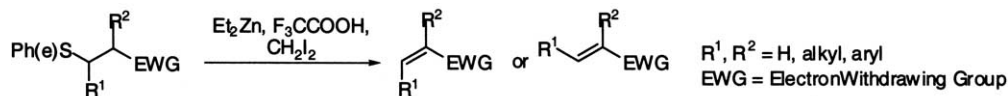


**Carbenoid-mediated elimination of sulfides and selenides. A mild and efficient method for introducing  $\alpha,\beta$ -double bonds to electron-withdrawing substituents**

*Tetrahedron Letters 43 (2002) 4959*

Arnaud Gautier,\* Goulnara Garipova, Reynald Deléens and Serge R. Piettre\*

*Laboratoire des Fonctions Azotées et Oxygénées Complexes, UMR 6014 CNRS, IRCOF, Université de Rouen, F-76821 Mont Saint Aignan, France*

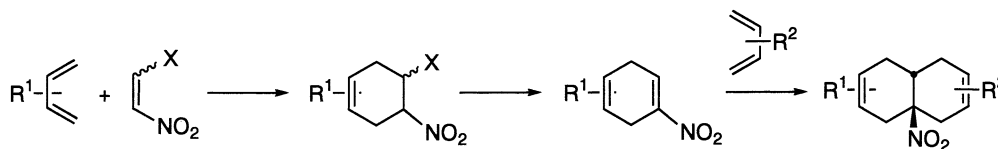


**A new strategy for the construction of polycycles bearing a nitrogen atom on the ring fusion**

*Tetrahedron Letters 43 (2002) 4963*

Reynald Deléens, Arnaud Gautier and Serge R. Piettre\*

*Laboratoire des Fonctions Azotées et Oxygénées Complexes, UMR 6014 CNRS, Université de Rouen, rue Tesnière, F-76821 Mont Saint Aignan, France*



**Synthesis of novel nitroso-fulleropyrrolidines**

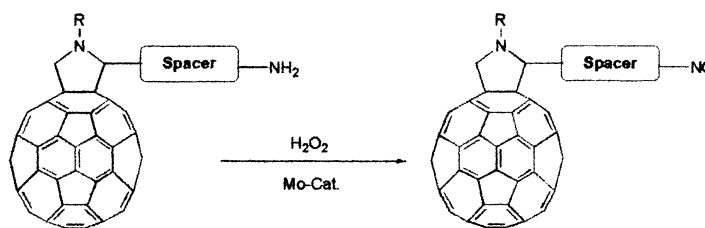
*Tetrahedron Letters 43 (2002) 4969*

Giuseppe Vasapollo,<sup>a,\*</sup> Giuseppe Mele,<sup>a</sup> Luigia Longo,<sup>a</sup> Roberto Ianne,<sup>a</sup> Brian G. Gowenlock<sup>b</sup> and Keith G. Orrell<sup>b</sup>

<sup>a</sup>*Dipartimento di Ingegneria dell'Innovazione, Università di Lecce, via Arnesano 73100 Lecce, Italy*

<sup>b</sup>*School of Chemistry, University of Exeter, Exeter EX4 4QD, UK*

Novel fulleropyrrolidines containing differently head groups (-NO<sub>2</sub>, -NH<sub>2</sub>, -NO) spaced by a long chain from the fulleropyrrolidine moiety have been synthesised and characterised.



**A useful synthesis of the Phe-Arg phosphinic acid dipeptide isostere**

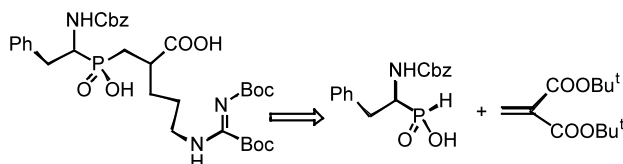
*Tetrahedron Letters 43 (2002) 4973*

Andrew S. Kende,<sup>a,\*</sup> Han-Qing Dong,<sup>a</sup> Xuwei Liu<sup>b</sup> and Frank H. Ebetino<sup>b</sup>

<sup>a</sup>*Chemistry Department, University of Rochester, Rochester, NY 14627-0216, USA*

<sup>b</sup>*Procter & Gamble Pharmaceuticals, Health Care Research Center, Mason, OH 45040-8006, USA*

A modular method for construction of polypeptides containing the Phe-Arg phosphinic acid isostere is described.



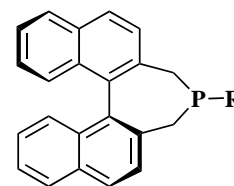
## Synthesis of new chiral monodentate phosphines and their use in asymmetric hydrogenation

*Tetrahedron Letters* 43 (2002) 4977

Kathrin Junge,<sup>a</sup> Günther Oehme,<sup>a</sup> Axel Monsees,<sup>b</sup> Thomas Riermeier,<sup>b</sup> Uwe Dingerdissen<sup>b</sup> and Matthias Beller<sup>a,\*</sup>

<sup>a</sup>*Institut für Organische Katalyseforschung an der Universität Rostock e.V. (IfOK), Buchbinderstraße 5-6, D-18055 Rostock, Germany*

<sup>b</sup>*Degussa AG, Projecthouse Catalysis, Industriepark Höchst, D-65296 Frankfurt am Main, Germany*

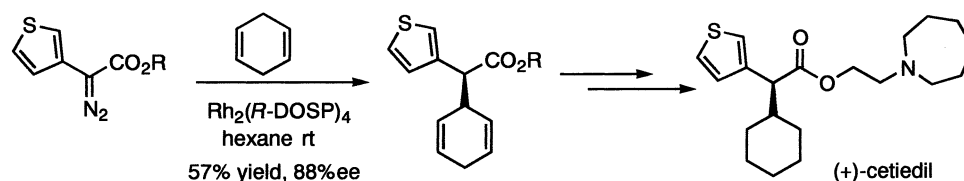


## Catalytic asymmetric C–H activation by methyl thiophen-3-ylidiazooacetate applied to the synthesis of (+)-cetiedil

*Tetrahedron Letters* 43 (2002) 4981

Huw M. L. Davies,<sup>\*</sup> Abbas M. Walji and Robert J. Townsend

*Department of Chemistry, University at Buffalo, State University of New York, Buffalo, NY 14260-3000, USA*

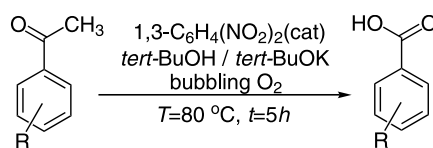


## Carboxylic acids from methyl aryl ketones by means of a new composite aerobic oxidation process

*Tetrahedron Letters* 43 (2002) 4985

Hans-René Bjørsvik,<sup>\*</sup> Lucia Liguori, Raquel Rodríguez González and José Angel Vedia Merinero

*Department of Chemistry, University of Bergen, Allégaten 41, N-5007 Bergen, Norway*

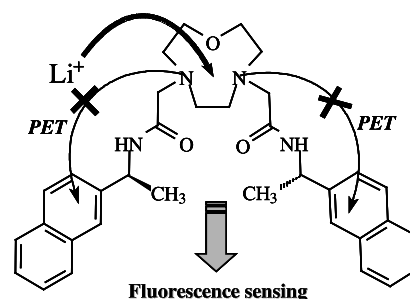


## A novel fluorescent photoinduced electron transfer (PET) sensor for lithium

*Tetrahedron Letters* 43 (2002) 4989

Thorfinnur Gunnlaugsson,<sup>\*</sup> Bastien Bichell and Claire Nolan  
*Department of Chemistry, Trinity College Dublin, Dublin 2, Ireland*

The fluorescent PET sensor **1** shows good Li<sup>+</sup> selectivity over other physiologically relevant alkali and alkali earth ions in CH<sub>3</sub>CN.



### Direct formation of tetrahydropyransols via catalysis in ionic liquid

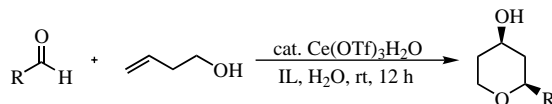
Tetrahedron Letters 43 (2002) 4993

Charlene C. K. Keh,<sup>a</sup> Vasudevan V. Namboodiri,<sup>b</sup> Rajender S. Varma<sup>b</sup> and Chao-Jun Li<sup>a,\*</sup>

<sup>a</sup>Tulane University, Department of Chemistry, New Orleans, LA 70118, USA

<sup>b</sup>Clean Processes Branch, National Risk Management Res. Lab, US Environmental Protection Agency, Cincinnati, OH 45268, USA

Utilizing a simple homoallyl alcohol and an aldehyde in the presence of a catalytic amount of cerium triflate, the direct formation of tetrahydropyranol derivatives in ionic liquid is reported.

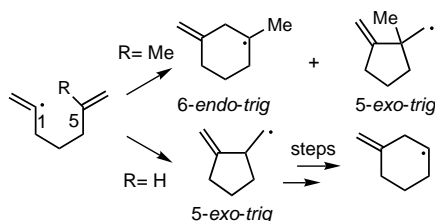


### Six- versus five-membered ring formation in radical cyclization of 1-vinyl-5-methyl-5-hexenyl radicals

Tetrahedron Letters 43 (2002) 4997

Ana M. Gómez,\* María D. Company, Clara Uriel, Serafín Valverde and J. Cristóbal López\*

Instituto de Química Orgánica General, C.S.I.C., Juan de la Cierva 3, 28006 Madrid, Spain



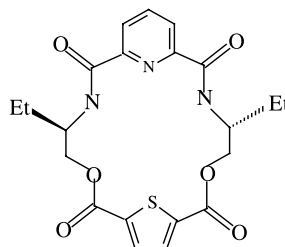
### Synthesis of novel chiral macrolides and their antifungal activity

Tetrahedron Letters 43 (2002) 5001

Ming Zhang Gao,<sup>a,b</sup> Jian Gao,<sup>a</sup> Zun Le Xu<sup>b</sup> and Ralph A. Zingaro<sup>a,\*</sup>

<sup>a</sup>Department of Chemistry, Texas A & M University, College Station, TX 77842-3012, USA

<sup>b</sup>School of Chemistry and Chemical Engineering, Zhongshan University, Guangzhou 510275, PR China

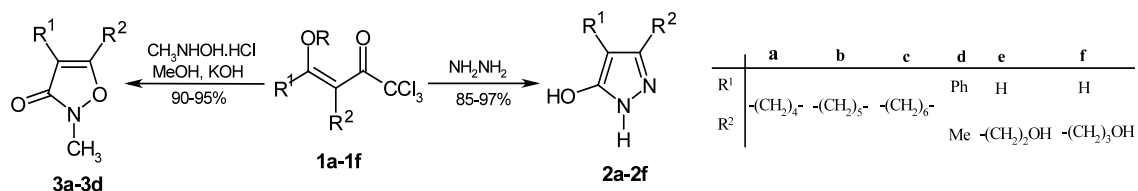


### Synthesis of hydroxypyrazoles and 1-methyl-3-isoxazolones via haloform reactions

Tetrahedron Letters 43 (2002) 5005

Alex F. C. Flores,\* Nilo Zanatta, Adriano Rosa, Sergio Brondani and Marcos A. P. Martins

Departamento de Química, Universidade Federal de Santa Maria, 97105-900, Santa Maria, RS, Brazil



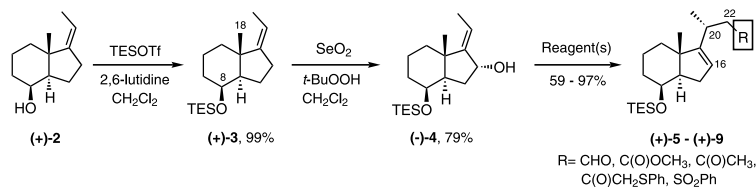
### [3,3]-Sigmatropic rearrangements: short, stereocontrolled syntheses of functionalized vitamin D<sub>3</sub> side-chain units

Tetrahedron Letters 43 (2002) 5009

Mark A. Hatcher\* and Gary H. Posner\*

The Johns Hopkins University, Department of Chemistry, Charles and 34th Streets, Baltimore, MD 21218, USA

Enantiomerically pure C,D-ring allylic alcohol **4** stereospecifically undergoes five types of [3,3]-sigmatropic rearrangements to give C-23 functionalized 16-ene vitamin D<sub>3</sub> side-chain units with natural C-20(*S*) stereochemistry.



### Triphosgene as highly efficient reagent for the solid-phase coupling of *N*-alkylated amino acids—total synthesis of cyclosporin O

Tetrahedron Letters 43 (2002) 5013

Bernd Thern,<sup>a</sup> Joachim Rudolph<sup>b</sup> and Günther Jung<sup>a,\*</sup>

<sup>a</sup>Institute of Organic Chemistry, University of Tübingen, 72076 Tübingen, Germany

<sup>b</sup>Bayer Corporation, Pharmaceutical Division, Department of Chemistry, West Haven, CT 06516, USA

The immunosuppressant cyclosporin O has been prepared by a fast and racemization free solid-phase peptide synthesis using a novel triphosgene coupling method and subsequent cyclization in solution.

