

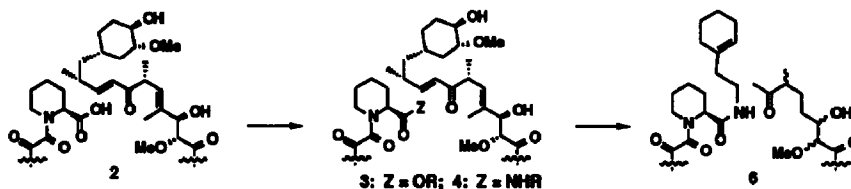
## GRAPHICAL ABSTRACTS

*Tetrahedron Letters*, 1994, 35, 197

### SYNTHESIS OF SECORAPAMYCIN ESTERS AND AMIDES

J. S. Skotnicki,\* R. M. Kearney and A. L. Smith, *Wyeth-Ayerst Research, CN 8000, Princeton, New Jersey 08543-8000*

Secorapamycin acid **2** has been converted to a variety of functionalized esters **3** and amides **4**. Sequential retroaldol / realdol reaction of a secorapamycin amide provided a truncated analog **6**.

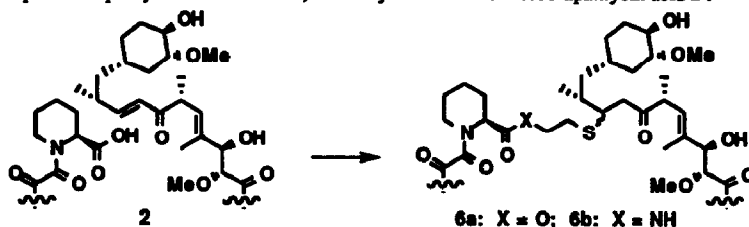


*Tetrahedron Letters*, 1994, 35, 201

### RING EXPANDED RAPAMYCIN DERIVATIVES

J. S. Skotnicki\* and R.M. Kearney, *Wyeth-Ayerst Research, Princeton, N. J. 08543*

Two ring expanded rapamycin derivatives **6a,b** were synthesized from secorapamycin acid **2**.

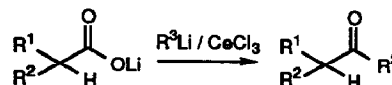


*Tetrahedron Letters*, 1994, 35, 203

### CERIUM(III) CHLORIDE REMARKABLY INCREASES THE RATES OF FORMATION AND YIELDS OF KETONES IN THE REACTION OF LITHIUM CARBOXYLATES WITH ORGANOLITHIUMS.

Yoonmo Ahn and Theodore Cohen,\* *Department of Chemistry, University of Pittsburgh, Pittsburgh, PA 15260 USA*

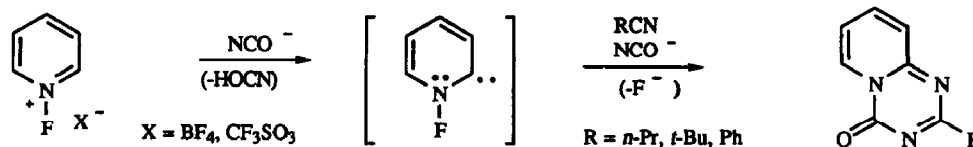
The presence of  $\text{CeCl}_3$  greatly increases the yield of ketones in the reaction of organolithiums with lithium carboxylates. The  $\text{CeCl}_3$  suppresses the enolization of the lithium carboxylate and the formation of tertiary alcohols. One reason for the latter effect is an increase in the rate of addition of the organometallic to the lithium carboxylate in the presence of  $\text{CeCl}_3$ .



*Tetrahedron Letters*, 1994, 35, 207

### A NOVEL SYNTHESIS OF 2-SUBSTITUTED PYRIDO[1,2-a]-1,3,5-TRIAZIN-4-ONES BY THE REACTION OF N-FLUOROPYRIDINIUM SALTS WITH CYANATE ION AND CARBONITRILES: EVIDENCE IN SUPPORT OF A CARBENE INTERMEDIATE

Alexander S. Kiselyov and Lucjan Strekowski, *Department of Chemistry, Georgia State University, Atlanta, Georgia 30303*

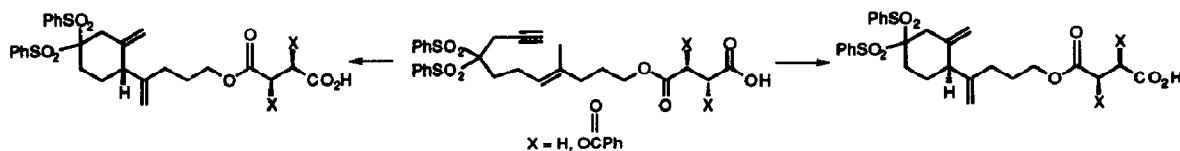


## Asymmetric Induction in Pd Catalyzed Enyne Cycloisomerizations

Barry M. Trost\* and Boris A. Czeskis

Department of Chemistry, Stanford University, Stanford, CA 94305-5080

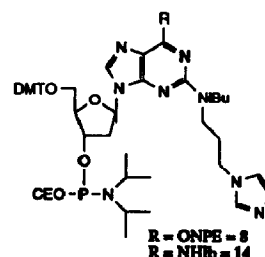
Control of the absolute stereochemistry in the palladium catalyzed Alder ene reaction was achieved either with chiral auxiliaries or chiral catalysts.



Remarkable Enhancement of Binding Affinity of Heterocycle-Modified DNA to DNA and RNA. Synthesis, Characterization and Biophysical Evaluation of N<sup>2</sup>-Imidazolylpropylguanine and N<sup>2</sup>-Imidazolylpropyl-2-aminoadenine Modified Oligonucleotides.

Kanda S. Ramasamy,\* Maryann Zounes, Carolyn Gonzalez, Susan M. Freier, Elena A. Lesnik, Lendell L. Cummins, Richard H. Griffey, Brett P. Monia and P. Dan Cook  
ISIS Pharmaceuticals, 2280 Faraday Avenue, Carlsbad, CA 92008, USA

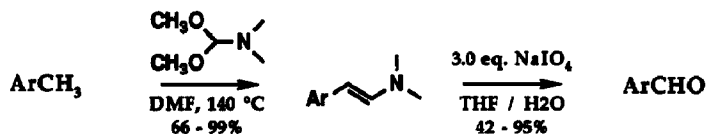
Oligonucleotides containing novel N<sup>2</sup>-Imidazolylpropylguanine and N<sup>2</sup>-Imidazolylpropyl-2-aminoadenine moieties (8 & 14) were synthesized and studied for their hybridization and biophysical properties.



A MILD METHOD FOR THE CONVERSION OF ACTIVATED ARYL METHYL GROUPS TO CARBOXALDEHYDES VIA THE UNCATALYZED PERIODATE CLEAVAGE OF ENAMINES

Michael G. Vetelino and Jotham W. Coe\*

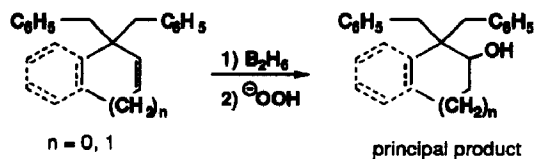
Central Research Division, Pfizer Inc., Groton, CT. 06340



UNUSUAL REGIOCHEMISTRY IN THE HYDROBORATION OF 3,3-DIBENZYLCYCLOALKENES

Xiaolian Shi and Bernard Miller\*, Department of Chemistry, University of Massachusetts, Amherst, MA 01003 USA

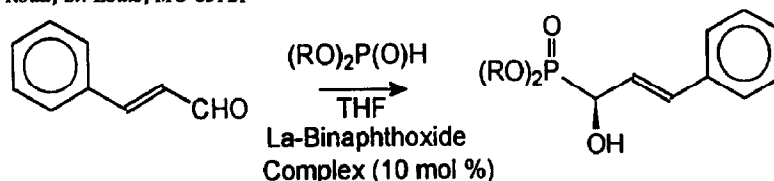
Reaction of 3,3-dibenzylcycloalkenes with diborane results in predominant attack by boron at the more crowded ends of the double bonds.



*Tetrahedron Letters*, 1994, 35, 227

**THE ENANTIOSELECTIVE ADDITION OF DIALKYLPHOSPHITES TO ALDEHYDES: CATALYSIS BY A LANTHANUM BINAPHTHOXIDE**

**COMPLEX.** Nigam P. Rath and Christopher D. Spilling\* *Department of Chemistry, University of Missouri-St. Louis, 8001 Natural Bridge Road, St. Louis, MO 63121*



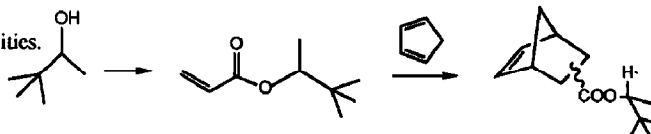
*Tetrahedron Letters*, 1994, 35, 231

**STERESELECTIVITIES OF THERMAL AND LEWIS ACID CATALYZED DIELS-ALDER REACTIONS OF 1,2,2-TRIMETHYLPROPYL ACRYLATE WITH CYCLOPENTADIENE**

Beatriz de Pascual-Teresa and K. N. Houk\*

*Department of Chemistry and Biochemistry, University of California, Los Angeles, California 90024-1569*

Results are in agreement with previous experimental work on the catalyzed process and quantitate the lower thermal stereoselectivities.

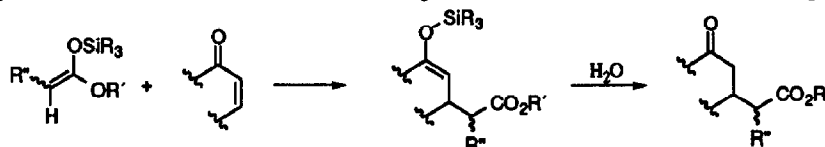


*Tetrahedron Letters*, 1994, 35, 233

**Highly Effective Catalysts for the Conjugate Addition of Silyl Ketene Acetals to Enones (Mukaiyama-Michael Reaction)**

Valérie Berl, Günter Helmchen\* and Stephanie Preston

*Organisch-Chemisches Institut der Universität Heidelberg, Im Neuenheimer Feld 270, D-69120 Heidelberg, FRG*



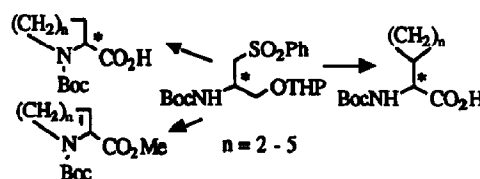
Conjugate additions of O-silyl ketene acetals to enones can be catalysed by as yet unknown species formed from  $P_4O_{10}$  in acetonitrile, while non-catalysed reactions gave low yield.

*Tetrahedron Letters*, 1994, 35, 237

**A VERSATILE METHOD FOR THE SYNTHESIS OF (S)- OR (R)-CYCLOALKYLGLYCINES, (S)- OR (R)-N-HETEROCYCLIC AND  $\alpha,\beta$ -UNSATURATED N-HETEROCYCLIC  $\alpha$ -AMINO ACIDS**

Régine Pauly, N. André Sasaki\* and P. Potier  
*Institut de Chimie des Substances Naturelles, CNRS, Avenue de la Terrasse, 91198 Gif-sur-Yvette Cedex France*

The title compounds were prepared from the same chiral synthon simply by altering the quantity or type of base required for anion formation.

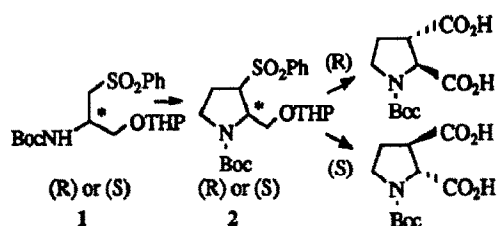


**ENANTIOSELECTIVE SYNTHESIS OF (2S,3S)- AND (2R,3R)-PYRROLIDINE-2,3-DICARBOXYLIC ACIDS : CONFORMATIONALLY CONSTRAINED (S)- AND (R)- ASPARTIC ACID ANALOGUES**

N. André Sasaki\*, Régine Pauly, Catherine Fontaine, Angèle Chiaroni, Claude Riche and Pierre Potier

Institut de Chimie des Substances Naturelles, CNRS, Avenue de la Terrasse, 91198 Gif-sur-Yvette Cedex France

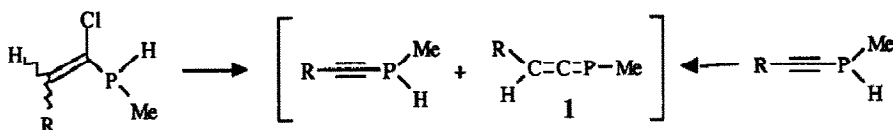
The title compounds were synthesized from the chiral synthons 1- (R) and 1- (S) via the key heterocyclic intermediate 2 and its enantiomer in 6 steps.



**UNSTABILIZED 1-PHOSPHAALLENES : SYNTHESIS AND CHARACTERIZATION.**

J.-C. Guillemin\*, T. Janati, P. Guenot, P. Savignac, J.-M. Denis\*.

Groupe de Physicochimie Structurale; Université de Rennes 1, F-35042 Rennes. CRMPO, Université de Rennes 1, F-35042 Rennes. DCPH; Ecole Polytechnique, F-91128 Palaiseau.

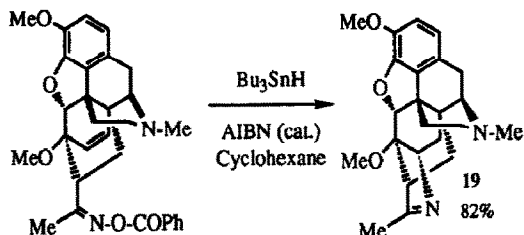


Unstabilized 1-phosphaallenes **1** are prepared by a base-induced dehydrohalogenation of 1-chlorovinylmethylphosphines or rearrangement of 1-alkynyl-methylphosphines.

**IMINYL RADICALS BY STANNANE MEDIATED CLEAVAGE OF OXIME ESTERS.**

Jean Boivin, Anne-Marie Schiano and Samir Z. Zard\*

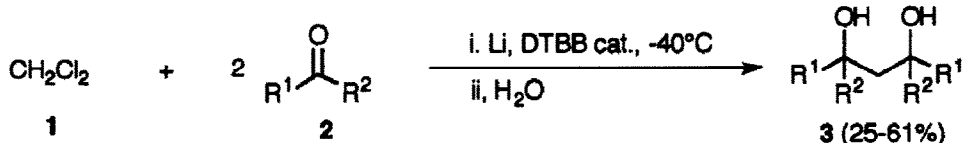
Laboratoire de Synthèse Organique Associé au C. N. R. S., Ecole Polytechnique, F-91128 Palaiseau, France.



**DICHLOROMETHANE AS A SOURCE OF THE CH<sub>2</sub><sup>2</sup>-SYNTHON: A COMBINATION OF AN ARENE-CATALYSED LITHIATION AND A BARBIER-TYPE REACTION**

A. Guijarro and M. Yus\*

Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Alicante, Apdo. 99, 03080 Alicante, Spain

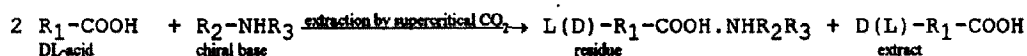


**MOLECULAR CHIRAL RECOGNITION IN SUPERCRITICAL SOLVENTS**

*Tetrahedron Letters, 1994, 35, 257*

Elemér Fogassy\*, Mária Ács, Tímea Szili, Éva Simóni<sup>1</sup>, János Szewinsky<sup>1</sup>  
 Department of Organic Chemical Technology, Technical University of Budapest, Budapest POB 91, 1521 Hungary  
<sup>1</sup>Technical University of Budapest, Department of Chemical Industrial Processes

A novel optical resolution method involving extraction with CO<sub>2</sub> of supercritical state is described.



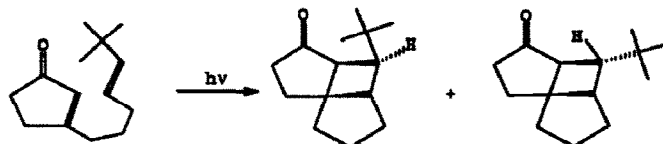
R<sub>1</sub>: substituted aryl-, substituted cycloalkyl- group  
 R<sub>2</sub>: substituted alkyl-, substituted aryl-alkyl- group  
 R<sub>3</sub>: alkyl-, aryl-alkyl- group

**REGIO AND STEREOCHEMISTRY IN 2+2 INTRAMOLECULAR PHOTOCYCLOADDITION OF SUBSTITUTED OLEFINS TO CYCLOPENTENONES.**

*Tetrahedron Letters, 1994, 35, 261*

D. Becker\* and N. Klimovich

Department of Chemistry, Technion-Israel Institute of Technology, Haifa 32000, Israel  
 The influence of substituents on the regio- and stereochemistry on intramolecular [2+2] photocycloaddition of olefins to cyclopentenones has been studied.



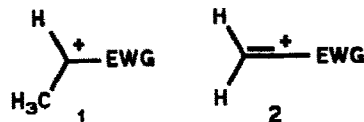
**Destabilized Vinyl Cations. An MO Study of the Influence of Electron-Withdrawing Substituents.**

*Tetrahedron Letters, 1994, 35, 265*

Yitzhak Apeloig\*, Rivka Biton, Han Zuilhof, and Gerrit Lodder\*

Technion-Israel Institute of Technology, Haifa 32000, Israel;  
 Gorlaeus Laboratories, Leiden University, 2300 RA Leiden, The Netherlands.

Theoretical calculations up to the MP3/6-31G\*\*//6-31G\* level have been used to delineate the destabilization of cations 1 and 2 by electron-withdrawing groups (EWG: Cl, F, CN, CHO and CF<sub>3</sub>).

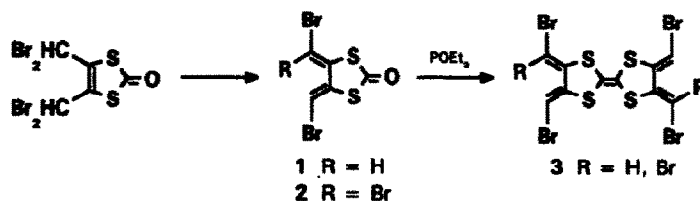


**4,5-BIS(METHYLENE)-1,3-DITHIOLE-2-ONES FROM BROMINATED 4,5-DIMETHYL-1,3-DITHIOLE-2-ONES: PRECURSORS FOR TETRAMETHYLENE-TETRATHIAFULVALENES**

*Tetrahedron Letters, 1994, 35, 269*

R. M. Renner and G. R. Burns\*  
 Chemistry Department, Victoria University,  
 P.O. Box 600, Wellington, New Zealand

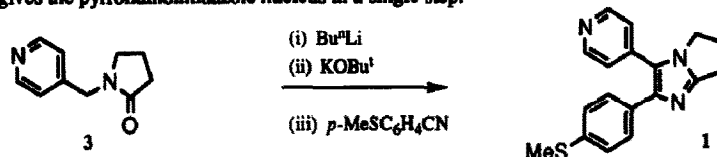
Dienes 1 and 2 are crystalline compounds. They react with triethyl phosphite, and spectroscopic data indicates that stable tetramethylene-tetrathiafulvalenes 3 are formed.



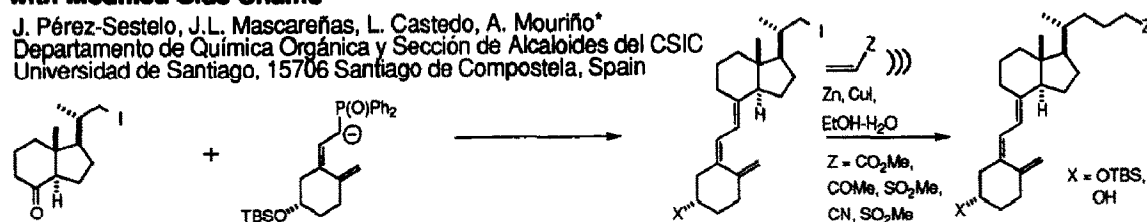
**A NOVEL AND EFFICIENT SYNTHESIS OF A TETRA-**

**SUBSTITUTED IMIDAZOLE.** Jerome F. Hayes\* and Michael B. Mitchell,  
Synthetic Chemistry Department, SmithKline Beecham Pharmaceuticals R&D, Old Powder Mills, Tonbridge, Kent TN11 9AR.  
Garry Procter, Department of Chemistry and Applied Chemistry, University of Salford, Salford M5 4WT.

A novel synthesis of a tetra-substituted imidazole is described. Regioselective deprotonation of picolitylpyrrolidinone 3 and reaction of this anion with an aryl nitrile gives the pyrrolidinoimidazole nucleus in a single step.

**A Short, Flexible Approach to Vitamin D<sub>3</sub> Analogues with Modified Side Chains**

J. Pérez-Sestelo, J.L. Mascareñas, L. Castedo, A. Mourino\*  
Departamento de Química Orgánica y Sección de Alcaloides del CSIC  
Universidad de Santiago, 15706 Santiago de Compostela, Spain

**REGIOSELECTIVE ENZYMIC EPOXIDATION OF (E)-(E)-PIPERYL PIPERIDINE**

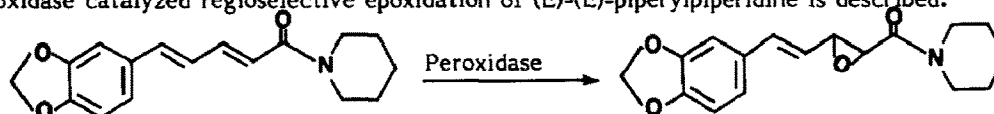
A Bhaskar Rao<sup>a</sup>, M Venkateswara Rao<sup>a</sup>

Anil Kumar<sup>b</sup>, G L David Krupadanam<sup>b</sup> and G Srimannarayana<sup>b</sup>

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

<sup>b</sup> Department of Chemistry, Osmania University, Hyderabad 500 007, India

Peroxidase catalyzed regioselective epoxidation of (E)-(E)-piperylpiperidine is described.

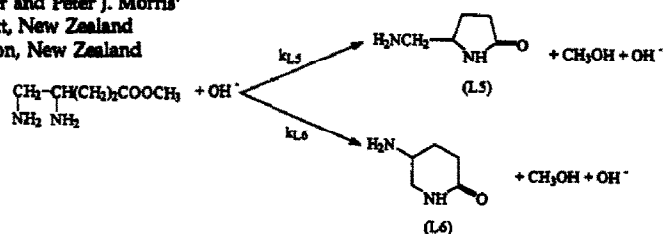
**COMPETITIVE INTRAMOLECULAR AMINOLYSIS: RELATIVE RATES OF 5- AND 6-MEMBERED LACTAM RING CLOSURE**

Kevin H. Patterson\*, Gary J. Depree, Johannes A. Zender and Peter J. Morris\*

\*Industrial Research Limited, PO Box 31310, Lower Hutt, New Zealand

\*Chemistry Department, University of Waikato, Hamilton, New Zealand

Methyl 4,5-diaminopentanoate provides an ideal case for assessing the relative rates of 5- and 6-membered lactam ring closure

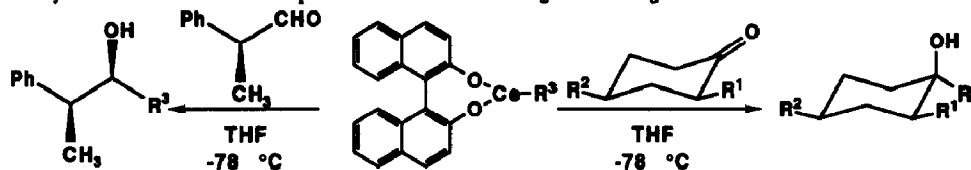


**LIGAND EFFECTS ON DIASTEREOSELECTIVE ADDITION OF ORGANOCEERIUM REAGENTS TO ALDEHYDES AND CYCLIC KETONES**

Nicholas Greeves,\* Lisa Lyford and J. Elizabeth Pease

Robert Robinson Laboratories, Department of Chemistry, University of Liverpool, P.O. Box 147, Liverpool, L69 3BX, U.K.

A new class of diaryloxycerium reagent has been prepared and the diastereoselectivity of carbonyl addition reactions has been compared with that of conventional organocerium reagents.

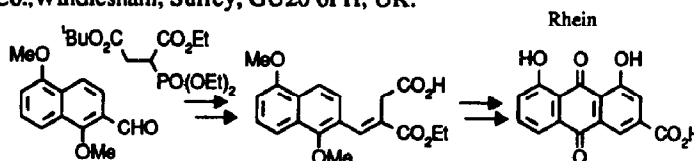


**A NEW SYNTHESIS OF RHEIN.**

Peter T. Gallagher\*, Terry A. Hicks, Andrew P. Lightfoot and W. Martin Owton.

Lilly Research Centre, Eli Lilly & Co., Windlesham, Surrey, GU20 6PH, UK.

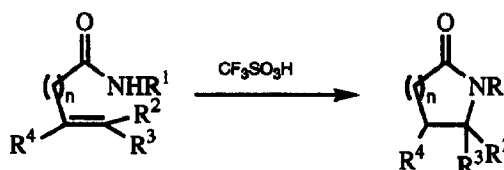
Rhein has been synthesised by coupling a novel phosphonosuccinate with a naphthaldehyde, followed by cyclisation to an anthracene and subsequent oxidation to the anthraquinone.



**PREPARATION OF  $\gamma$ - AND  $\delta$ -LACTAMS BY RING CLOSURE OF  $\beta,\gamma$ -UNSATURATED AMIDES USING TRIFLUOROMETHANESULFONIC ACID**

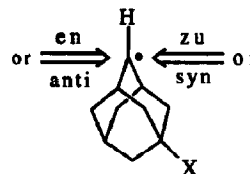
Charles M. Marson\* and Asad Fallah, Department of Chemistry, University of Sheffield, Sheffield, S3 7HF, U.K.

$\gamma$ -Lactams and  $\delta$ -lactams can be prepared by cyclization of  $\beta,\gamma$ -unsaturated amides with trifluoromethanesulfonic acid



**THE NATURE OF ELECTRONIC INTERACTIONS GOVERNING THE CONTROL OF  $\Pi$ -FACIAL SELECTIVITY IN THE CAPTURE OF 5-SUBSTITUTED(X)-2-ADAMANTYL RADICALS: ELECTROSTATIC VERSUS HYPERCONJUGATIVE EFFECTS**  
William Adcock\*, Christopher I. Clark and Neil A. Trout, School of Physical Sciences, The Flinders University of South Australia, Adelaide, South Australia, 5001

An electrostatic rather than a hyperconjugative effect appears to be the dominant factor governing the control of  $\Pi$ -facial selectivity in the capture of 5-substituted(X)-2-adamantyl radicals.



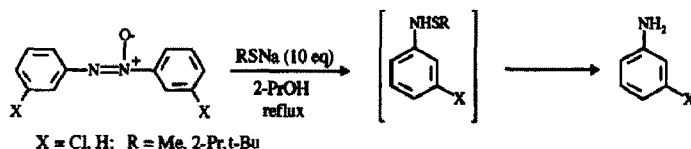
**A NEW REACTION OF THE AZOXY GROUP WITH ALKYL THIOLATES:  
REDUCTION TO AMINO VIA A SULFENAMIDO INTERMEDIATE**

*Tetrahedron Letters*, 1994, 35, 301

Maria Teresa Dario, Stefano Montanari, Cristina Paradisi\* and Gianfranco Scorrano

Centro Studio Meccanismi Reazioni Organiche del CNR, Dipartimento di Chimica Organica, Via Marzolo 1, 35131 Padova, Italy

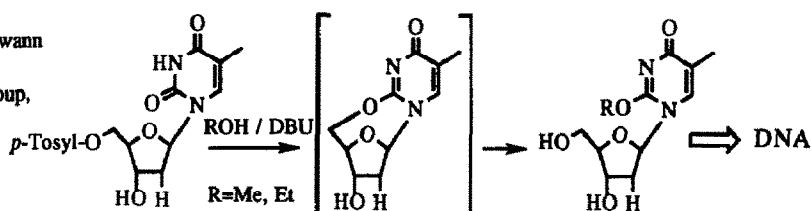
Sulfenamides (R = *t*-Bu) or anilines are obtained in good yields *via* an unprecedented reduction of the NNO moiety.



**OLIGODEOXYNUCLEOTIDES CONTAINING  
O<sup>2</sup>-ALKYLTHYMINE: SYNTHESIS AND CHARACTERIZATION**

*Tetrahedron Letters*, 1994, 35, 303

Yao-Zhong Xu\* and Peter F. Swann  
Cancer Research Campaign,  
Nitrosamine-Induced Cancer Group,  
Department of Biochemistry and  
Molecular Biology, University  
College London, Gower Street,  
London WC1E 6BT, England



**Biosynthesis of Tetroneasin: Part 1. Introduction and Investigation of  
the Diketide and Triketide Intermediates Bound to the Polyketide Synthase.**

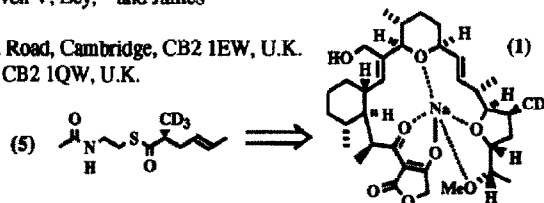
*Tetrahedron Letters*, 1994, 35, 307

Helen C. Hailes,<sup>a</sup> Catherine M. Jackson,<sup>a</sup> Peter F. Leadlay,<sup>b</sup> Steven V. Ley,<sup>a\*</sup> and James Staunton.<sup>a\*</sup>

<sup>a</sup>Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge, CB2 1EW, U.K.

<sup>b</sup>Department of Biochemistry, Tennis Court Road, Cambridge, CB2 1QW, U.K.

*In biosynthetic incorporation studies with intact cells, the N-acetyl cysteamine analogue of the proposed triketide intermediate (5) was incorporated intact into tetroneasin (1).*



**Biosynthesis of Tetroneasin: Part 2. Identification of the  
Tetraketide Intermediate Attached to the Polyketide Synthase.**

*Tetrahedron Letters*, 1994, 35, 311

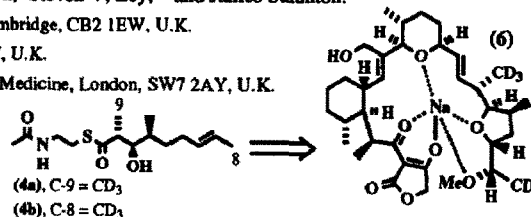
Helen C. Hailes,<sup>a</sup> Sandeep Handa,<sup>a</sup> Peter F. Leadlay,<sup>b</sup> Ian C. Lennon,<sup>c</sup> Steven V. Ley,<sup>a\*</sup> and James Staunton.<sup>a\*</sup>

<sup>a</sup>Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge, CB2 1EW, U.K.

<sup>b</sup>Department of Biochemistry, Tennis Court Road, Cambridge, CB2 1QW, U.K.

<sup>c</sup>Department of Chemistry, Imperial College of Science, Technology and Medicine, London, SW7 2AY, U.K.

*In biosynthetic incorporation studies with intact cells, the N-acetyl cysteamine analogues (4a) and (4b) of the proposed tetraketide intermediate (4) were incorporated intact into tetroneasin (6). Diastereoisomers of (4), however, were not incorporated into (6).*





**Biosynthesis of Tetronasin: Part 3. Preparation of Deuterium Labelled Tri- and Tetraketides as Putative Biosynthetic Precursors of Tetronasin.**

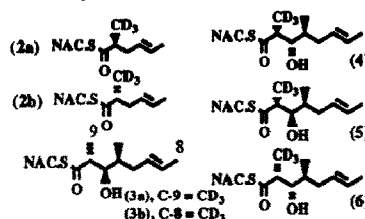
Helen C. Hailes,<sup>a</sup> Sandeep Handa,<sup>a</sup> Peter F. Leadlay,<sup>b</sup> Ian C. Lennon,<sup>c</sup> Steven V. Ley<sup>a\*</sup> and James Staunton<sup>a\*</sup>

<sup>a</sup> Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge, CB2 1EW, U.K.

<sup>b</sup> Department of Biochemistry, Tennis Court Road, Cambridge, CB2 1QW, U.K.

<sup>c</sup> Department of Chemistry, Imperial College of Science, Technology and Medicine, London, SW7 2AY, UK.

Seven deuterium labelled *N*-acetyl cysteamine thioesters, (2a), (2b), (3a), (3b), (4), (5) and (6) were prepared as putative biosynthetic precursors of the acyl tetronic acid ionophore tetronasin (1).



*Tetrahedron Letters*, 1994, 35, 315

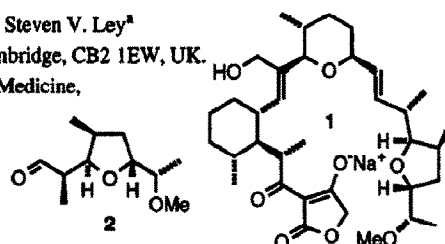
**Two New Routes to the C19-C26 Tetrahydrofuran Fragment of the Acyl Tetronic Acid Ionophore Tetronasin (ICI M139603)**

Geert-Jan Boons<sup>a</sup>, Dearg S. Brown<sup>b</sup>, J. Andrew Clase<sup>a</sup>, Ian C. Lennon<sup>b</sup> and Steven V. Ley<sup>a\*</sup>

<sup>a</sup> Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge, CB2 1EW, UK.

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

Two highly efficient and complementary synthetic routes to the C19-C26 tetrahydrofuran fragment (2) of the novel acyltetronic acid ionophore tetronasin (ICI M139603) (1) are described.



*Tetrahedron Letters*, 1994, 35, 319

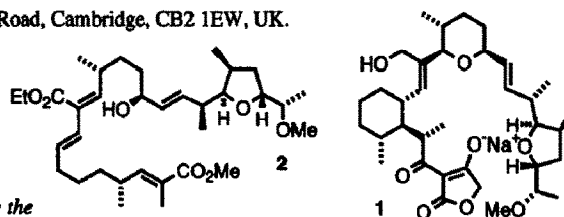
**Novel Polyene Cyclization Routes to the Acyl Tetronic Acid Ionophore Tetronasin (ICI M139603)**

Geert-Jan Boons<sup>a</sup>, Ian C. Lennon<sup>b</sup>, Steven V. Ley<sup>a</sup>, Elaine S.E. Owen<sup>b</sup>, James Staunton<sup>a</sup> and David J. Wadsworth<sup>b</sup>

<sup>a</sup> Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge, CB2 1EW, UK.

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

An approach to the total synthesis of the ionophore antibiotic tetronasin (1) is reported, in which the key step is a novel base catalysed cascade cyclisation of an activated polyene (2). This establishes two rings and four stereogenic centres in one step. A related polyene has been cyclised in a similar manner, illustrating the generality of this procedure



*Tetrahedron Letters*, 1994, 35, 323

**Avermectin Biosynthesis. Intact Incorporation Of A Diketide Chain-Assembly Intermediate Into The Polyketide Macrocyclic Ring**

Christopher J. Dutton,<sup>a</sup> Antony M. Hooper,<sup>b</sup> Peter F. Leadlay<sup>c</sup> and James Staunton<sup>b\*</sup>

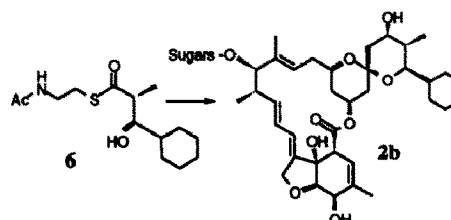
<sup>a</sup> Central Research Division, Pfizer Ltd., Ramsgate Road, Sandwich, Kent

CT13 9NJ, U.K.; <sup>b</sup> University Chemical Laboratory, Lensfield Road,

Cambridge CB2 1EW, U.K.; <sup>c</sup> Department of Biochemistry, Tennis Court

Road, Cambridge CB2 1QW, U.K.

The diketide analogue (6) incorporates intact into the polyketide core of avermectin (2b) showing that chain assembly follows the processive mode



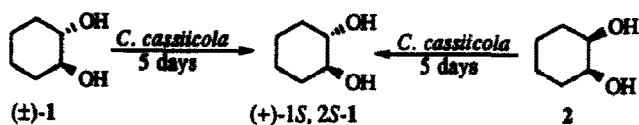
*Tetrahedron Letters*, 1994, 35, 327

**Preparation of Optically Active Cyclohexanediols and (+)- $\alpha$ -Hydroxycycloheptanone by an Enzyme Catalysed Stereo-inversion/Oxidation Process**

Andrew J. Carnell<sup>a</sup>, Gilles Iacazio<sup>a</sup>, Stanley M. Roberts<sup>a</sup>, Andrew J. Willetts<sup>b</sup>

<sup>a</sup>Department of Chemistry, University of Exeter, Stocker Road, Exeter EX4 4QD. <sup>b</sup>Department of Biological Sciences, University of Exeter, Prince of Wales Road, Exeter EX4 4QG.

Incubation of the ( $\pm$ )-diol 1 or the *meso* diol 2 with the fungus *C. cassicola* gives optically pure (+)-1.



**UNPRECEDENTED FORMATION OF SPIROBICYCLO[3.1.0]HEXANES THROUGH TANDEM ACETYLENE-ADDITION - MICHAEL CYCLIZATION**

A.I.A. Broess, M.B. Groen and H. Hamersma<sup>\*</sup>, Organon International, PO Box 20, 5340 BH Oss, the Netherlands

Treatment of pinacolone-type ketones with 4-pentynyltriphenylphosphonium bromide efficiently produces 6-acylbicyclo[3.1.0]hexane systems.

