

JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions 1

Organic and Bio-organic Chemistry

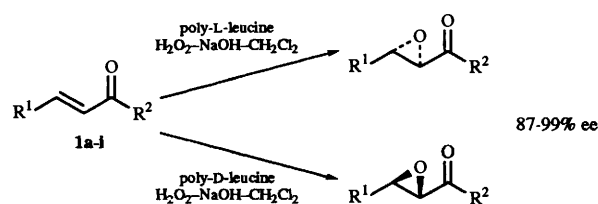
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Perkin Communications

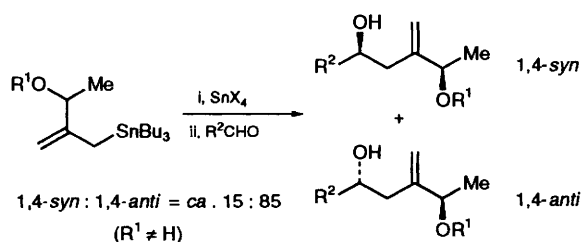
1467 **Enantiocomplementary asymmetric epoxidation of selected enones using poly-L-leucine and poly-D-leucine**

M. Elena Lasterra Sánchez and Stanley M. Roberts



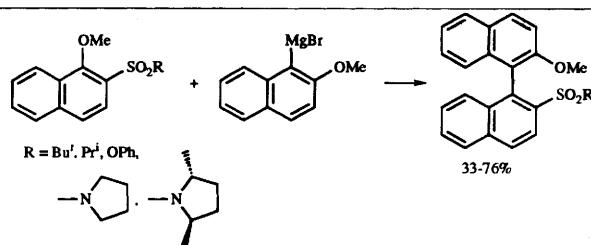
1469 **1,4-Asymmetric induction in reactions between [2-(1-alkoxyalkyl)propenyl](tributyl)stannanes and aldehydes promoted by tin(IV) halides**

Michelangelo Gruttadauria and Eric J. Thomas



1473 **Nucleophilic aromatic substitution of 2-sulfonyl-substituted 1-methoxynaphthalenes with Grignard reagents**

Tetsutaro Hattori, Mikio Suzuki, Yasuko Komuro and Sotaro Miyano

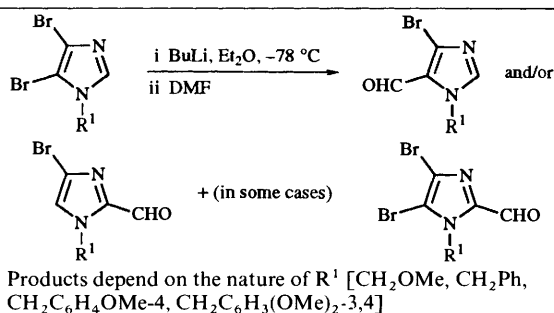


The chiral sulfonamide induced axial chirality to give the corresponding binaphthyl in 80% de

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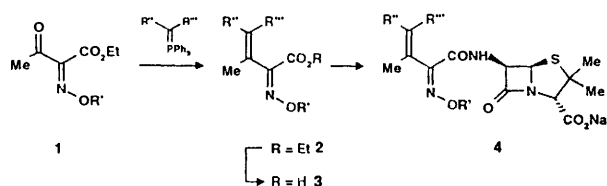
- 1475 **Azoles. Part 11. Synthesis of imidazole-2- (and -5)-carbaldehydes and derivatives of imidazo[1,2-*b*]isoquinoline; transmetallation of imidazol-5-yl lithium compounds**

Brian Iddon, Anders K. Petersen, Jan Becher and Nils J. Christensen



- 1483 **Synthesis and biological activity of new C-6 and C-7 substituted vinyloxyimino-penicillins and cephalosporins**

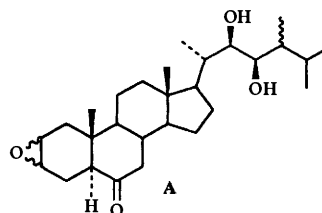
Stephen C. M. Fell, Michael J. Pearson, George Burton and John S. Elder



Alkoxyimino derivatives of type 1 react with phosphoranes to give the vinyloximes 2 which after hydrolysis to the acids 3, and coupling to 6-APA give a novel series of penicillins 4

- 1495 **Synthesis of secasterone and further epimeric 2,3-epoxybrassinosteroids**

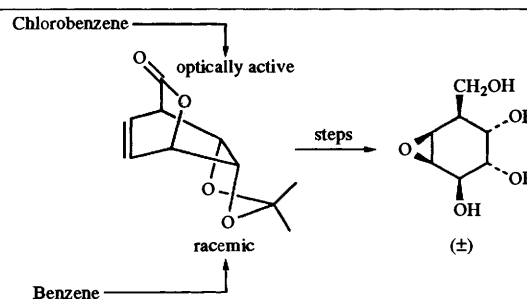
Brunhilde Voigt, Suguru Takatsuto, Takao Yokota and Günter Adam



Synthesis of the four epimeric 2,3-epoxy diols A, among them the native (24*S*)-brassinosteroid secasterone is described

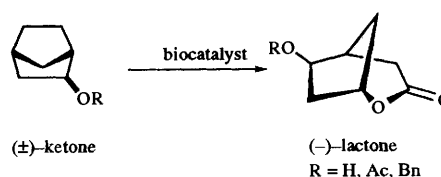
- 1499 **Conversion of benzene and chlorobenzene into polyhydroxylated cyclohexane derivatives related to cyclophellitol**

Stanley M. Roberts and Peter W. Sutton



- 1505 **Enzymatic Baeyer–Villiger oxidations of some bicyclo[2.2.1]heptan-2-ones using monooxygenases from *Pseudomonas putida* NCIMB 10007: enantioselective preparation of a precursor of azadirachtin**

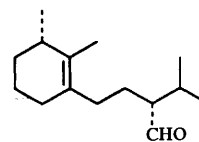
René Gagnon, Gideon Grogan, Stanley M. Roberts, Raffaella Villa and Andrew J. Willetts



Biocatalyst = *Ps. putida* NCIMB 10007 and/or monooxygenases from this organism

1513 **Synthesis and the absolute configuration of the sesquiterpene aldehyde tridensal from the Taiwanese liverwort *Bazzania tridens***

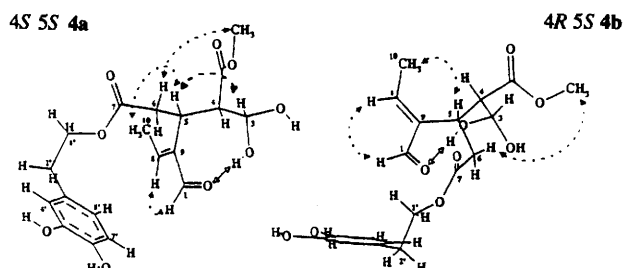
Motoo Tori, Naomi Uchida, Aya Sumida, Hirosuke Furuta and Yoshinori Asakawa



The absolute configuration of tridensal has been established as being *SR* by total synthesis

1519 **^1H and ^{13}C NMR characterization of two new oleuropein aglycones**

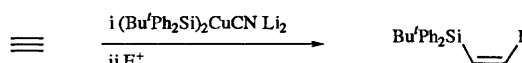
Rita Limioli, Roberto Consonni, Gianluca Ottolina, Vincenzo Marsilio, Giorgio Bianchi and Lucia Zetta



Enzymatic hydrolysis of oleuropein gave two diastereoisomeric aglycones, **4a** and **4b**, identified and characterized by NMR spectroscopy

1525 **Synthesis of vinylsilanes by silyl-cupration of acetylenes using *tert*-butyldiphenylsilyl-cuprate reagents**

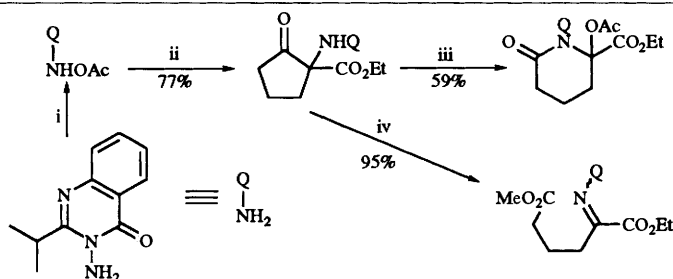
Asuncion Barbero, Purificación Cuadrado, Ian Fleming, Ana M. González, Francisco J. Pulido and Alicia Sánchez



The *tert*-butyldiphenylsilyl-cuprate reacts with acetylenes to give vinyl-cuprates, which react with a variety of electrophiles to give vinylsilanes carrying the relatively unreactive *tert*-butyldiphenylsilyl group

1533 **Reactions of cyclic β -keto esters and other enol derivatives with 3-acetoxyamino-2-isopropylquinazolin-4(3*H*)-one: further oxidation of the cyclic α -(3,4-dihydro-2-isopropyl-4-oxoquinazolin-3-yl)amino ketones with lead tetraacetate leading to ring-expansion (in dichloromethane) and ring-cleavage (in methanol)**

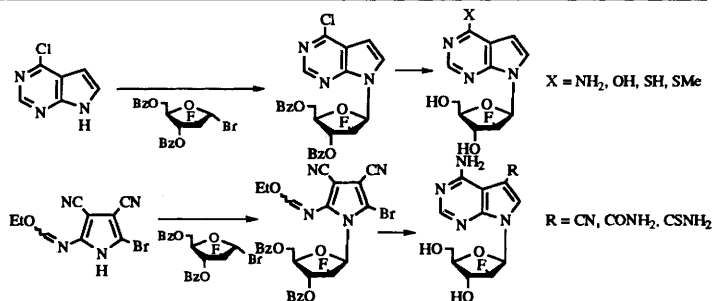
Robert S. Atkinson, Emma Barker, Paul J. Edwards and Gordon A. Thomson



i, LTA; ii, ethyl 2-oxocyclopentane carboxylate; iii, LTA, CH_2Cl_2 ; iv, LTA, MeOH

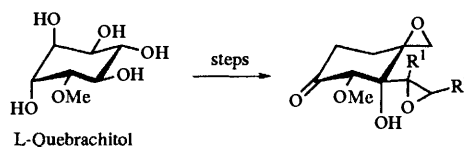
1543 **Total synthesis of 2'-deoxy-2'-araffluoro-tubercidin, -toyocamycin, -sangivamycin and certain related nucleosides**

Birendra K. Bhattacharya, T. Sudhakar Rao and Ganapathi R. Revankar



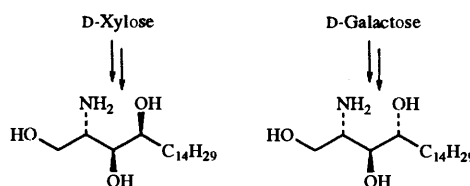
1551 Total synthesis of (–)-ovalicin and analogues from L-quebrachitol

Derek H. R. Barton, Sophie Bath, David C. Billington, Stephan D. Gero, Béatrice Quiclet-Sire and Mohammad Samadi



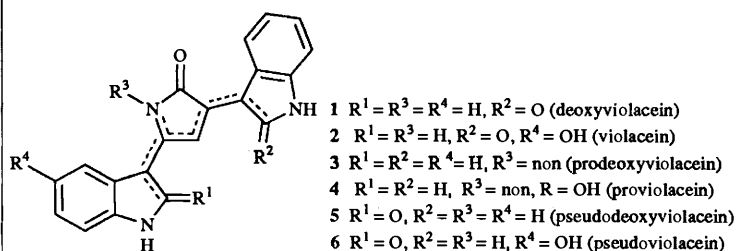
1559 Stereoselective syntheses of D-ribo- and L-lyxo-phytosphingosine

Yun-Long Li, Xiu-Hong Mao and Yu-Lin Wu



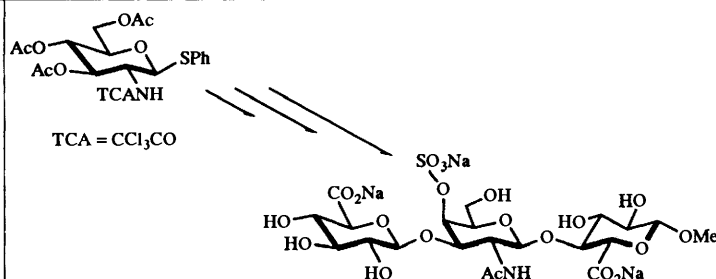
1565 Biosynthesis of violacein: oxygenation at the 2-position of the indole ring and structures of proviolacein, prodeoxyviolacein and pseudoviolacein, the plausible biosynthetic intermediates of violacein and deoxyviolacein

Tsutomu Hoshino, Toru Hayashi and Taro Odajima



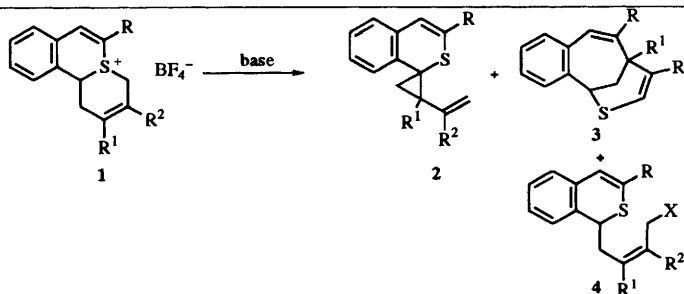
1573 2-Deoxy-2-trichloroacetamido-D-glucopyranose derivatives in oligosaccharide synthesis: from hyaluronic acid to chondroitin 4-sulfate trisaccharides

Caroline Coutant and Jean-Claude Jacquinet



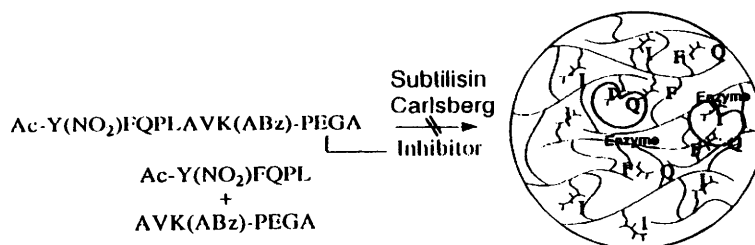
1583 Ring transformation of the adducts of the polar cycloadditions of 2-benzothiopyrylium salts

Hiroshi Shimizu, Shojiro Miyazaki, Tadashi Kataoka and Mikio Hori



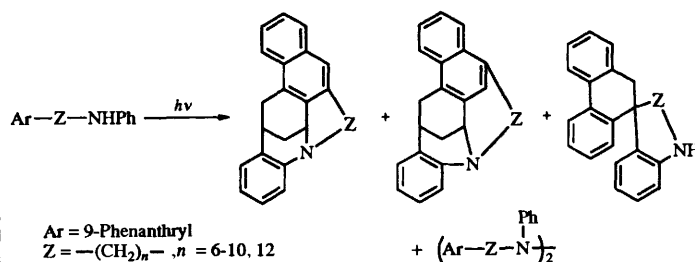
1591 Direct visualization of enzyme inhibitors using a portion mixing inhibitor library containing a quenched fluorogenic peptide substrate. Part 1. Inhibitors for subtilisin Carlsberg

Morten Meldal and Ib Svendsen

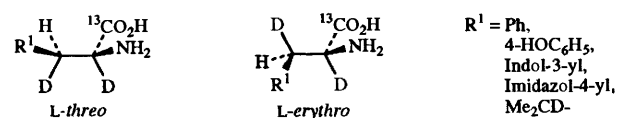


1597 **Formation of polycyclic compounds in the photoreactions of 9-(ω -anilinoalkyl)-phenanthrenes**

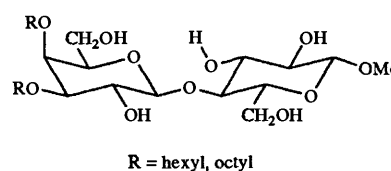
Akira Sugimoto, Noriyuki Fukada, Tomohiro Adachi and Hiroo Inoue

1603 **Synthesis of L-threo- and L-erythro-[1- ^{13}C , 2,3- $^2\text{H}_2$] amino acids: novel probes for conformational analysis of peptide side chains**

Makoto Oba, Ryuichi Ueno, Mika Fukuoka (née Yoshida), Masatsune Kainosho and Kozaburo Nishiyama

Synthesis of L-threo- and L-erythro-[1- ^{13}C , 2,3- $^2\text{H}_2$] amino acids and determination of the C ^{α} -C ^{β} torsion angle using the amino acids are described1611 **Synthesis and lyotropic phase behaviour of methyl 3',4'-di-O-hexyl- and -di-O-octyl- β -lactoside and partial O-acetylation of methyl 3',4'-di-O-octyl- β -lactoside**

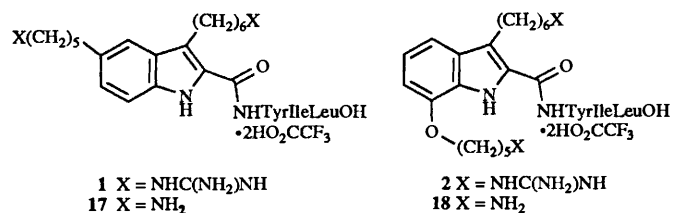
Virginie Langlois and J. Michael Williams



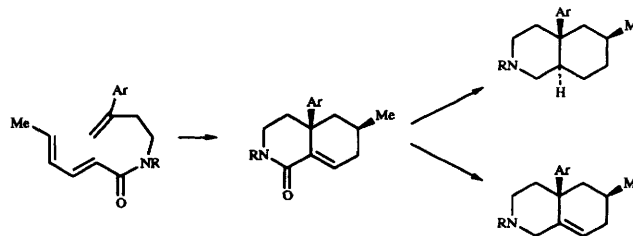
Synthesis, solubility and lyotropic phase behaviour, and partial acetylation of dioctyl lactoside

1615 **Synthesis of partial nonpeptidic peptide mimetics as potential neurotensin agonists and antagonists**

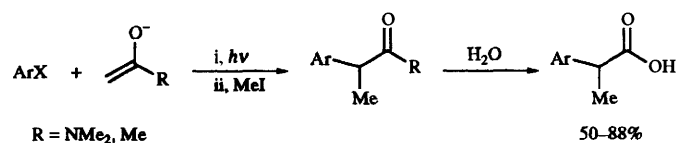
Alan P. Kozikowski, Dharmpal S. Dodd, Javid Zaidi, Yuan-Ping Pang, Bernadette Cusack and Elliott Richelson

1623 **Synthetic studies on morphine-based analgesics. Intramolecular Diels-Alder approach to 4a-aryldecahydroisoquinolines**

Sheetal Handa, Keith Jones and Christopher G. Newton

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Carlos G. Ferrayoli, Sara M. Palacios and Rubén A. Alonso



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Asymmetric synthesis of steroidal Troger's base analogues **U. Maitra, B.G. Bag, P. Rao and D. Powell**

Preparation of α,α -dideuterated alkyl and aryl aminomethylphosphinic acids
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Radical substitution on thioester by the methyl radical generated from methyl(L)cobaloxime
M. Tada, T. Yoshihara and K. Sugano

Chemistry of silyl thioketones. Part 8. Photo-induced cycloadditions of silyl thioketones with olefins
B.F. Bonini, M.C. Franchini, M.F. Fochi, G. Mazzanti, A. Ricci, P. Zani and B. Zwanenburg

Control over absolute (*R*, *S*), relative (*syn*, *anti*) and geometrical (*E*, *Z*) stereochemistry in the synthesis of allylically substituted alkenes from diphenylphosphinoyl epoxy alcohols **J. Clayden, A.B. McElroy and S. Warren**

Synthesis and characterisation of some novel phthalocyanines containing both oligo(ethyleneoxy) and alkyl or alkoxy sidechains: novel unsymmetrical discotic mesogens **N.B. McKeown, G.J. Clarkson and K.E. Treacher**

Selective mono-benylation of methylene active compounds with dibenzylcarbonate. Benzylation of phenol
P. Tundo, M. Selva and C.A. Marfques

Improved preparation of β -amyloid (1-43): structural insight leading to optimised positioning of *N*-(2-hydroxy-4-methoxybenzyl) (Hmb) backbone amide protection **T. Johnson, M. Quibell and W.G. Turnell**

Regio- and enantio-selective catalytic epoxidation of conjugated dienes
K.A. Jorgensen, K.G. Rasmussen and D.S. Thomson

Anthraquinone photocatalysed addition of amines to α,β -unsaturated esters. A novel route to indolizidone, pyrrolizidone and related ring systems **S. Das, J.S. Dileep Kumar, K. Shivaramayya and M.V. George**

Solid-phase syntheses of *O*-GlcNAc glycopeptide fragments of RNA-polymerase II and mammalian neurofilaments
M. Meldal, E. Meinjohanns, A. Vargas-Berenguel, H. Paulsen and K. Bock

The 'inverse electron-demand' Diels-Alder reaction in polymer synthesis. Part 2. Some bis(1,2,4-triazines) as potential bisdiene monomers **D.M. Smith, M.J. Bruce, G.A. McLean, B.J.L. Royles and P.N. Standing**

A model for the functional active site of Baeyer-Villigerases **D.R. Kelly, C.J. Knowles, J.G. Mahdi, M.A. Wright, I.N. Taylor, D.E. Hibbs, M.B. Hursthouse, A.K. Mish'al, S.M. Roberts, P.W.H. Wan, G. Grogan and A.J. Willetts**

Metallation of pyridine *N*-oxides and application to synthesis
G. Queguiner, O. Mongin, P. Rocca, L. Thomas-dit-Dumont, F. Trecourt and F. Marsais

Tripolar mesoionic compounds **S. Araki, J. Mizuya, N. Aoyama and Y. Butsugan**

Titanium(IV) mediated reductive aminations of 1-adamantyl methyl ketone: facile preparation of potential antiviral agents rimantadine and analogues **S. Bhattacharyya**

2-Alkoxy-3-oxoalkyl-tetrahydropyrans and -tetrahydrofurans: versatile intermediates in heterocyclic synthesis
P. Duhamel, A. Deyine, G. Dujardin, G. Ple and J.-M. Poirier

Synthesis and cathodic cleavage of a set of substituted benzenesulfonamides including the corresponding *tert*-butyl sulfonylcarbamates. pK_a of sulfonamides
B. Nyasse, L. Grehn, U. Ragnarsson, H.L.S. Maia, L.S. Monteiro, I. Leito, I. Koppel and J. Koppel

Synthesis of bridged azabicyclic compounds using radical translocation reaction of 1-(*o*-bromobenzoyl)-2-(prop-2-enyl)pyrrolidines **M. Ikeda, T. Sato, Y. Kugo, E. Nakaumi and H. Ishibashi**

Reactions of aryl *N*-sulfinylamines with 1,4-benzoquinone and 1,4-naphthoquinone. Synthesis of aryl sulfimoyl quinones and their hydrolysis **A.S. Amarasekara and W.W. Pathmasiri**

Electro-organic reactions. Part 42. The diastereoselective cathodic hydrodimerisation of cinnamate esters: preparative aspects
J.H.P. Utley, M. Gullu and M. Motevalli

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