

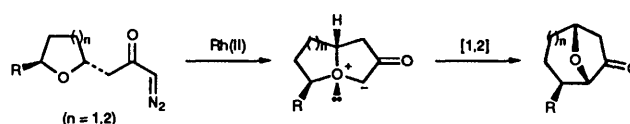
JOURNAL OF THE CHEMICAL SOCIETY

**Perkin Transactions 1**

Organic and Bio-organic Chemistry

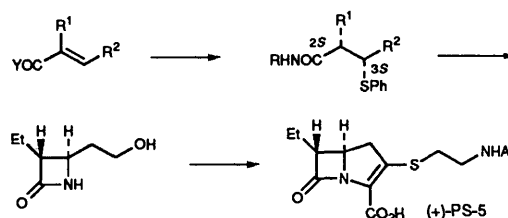
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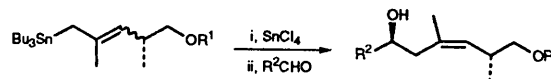
2857 **O-Bridged medium sized rings via bicyclic oxonium ylides**

F. G. West, T. H. Eberlein and Richland W. Tester

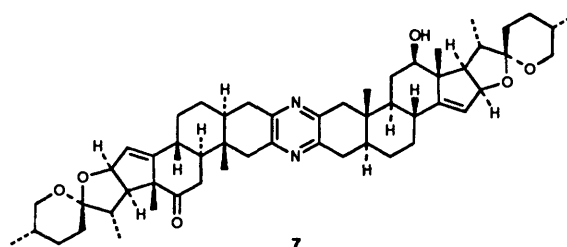
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2861 **A novel stereoselective route to  $\beta$ -lactams: diastereoselective synthesis of a key intermediate for carbapenem antibiotic (+)-PS-5**

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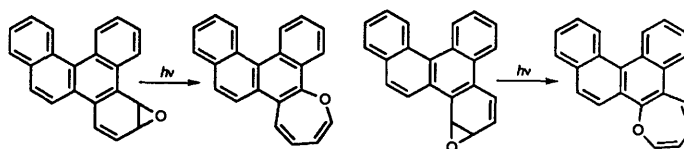
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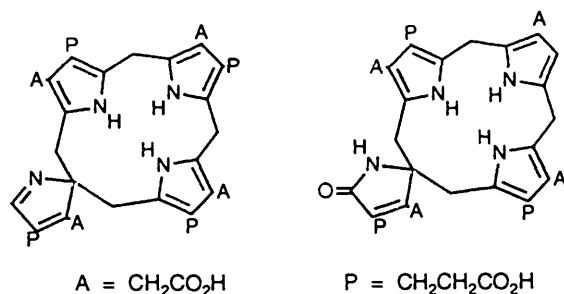
- 2869 **Synthesis of benzo[*g*]chrysene 5,6-oxide and 7,8-oxide and their isomeric oxepines**



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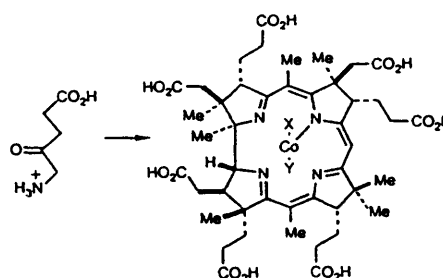
- 2875 **Biosynthesis of porphyrins and related macrocycles. Part 40. Synthesis of a spiro-lactam related to the proposed spiro-intermediate for porphyrin biosynthesis: inhibition of cosynthetase**

W. Marshall Stark, Craig J. Hawker, Graham J. Hart, Athena Philippides, Paul M. Petersen, J. David Lewis, Finian J. Leeper and Alan R. Battersby

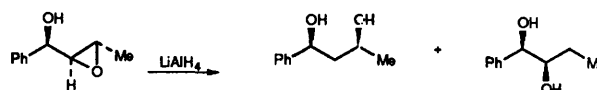


- 2893 **Biosynthesis of porphyrins and related macrocycles. Part 41. Fate of oxygen atoms as precorrin-2 carrying eight labelled carboxyl groups (<sup>13</sup>C<sup>18</sup>O<sub>2</sub>H) is enzymatically converted into cobyrinic acid**

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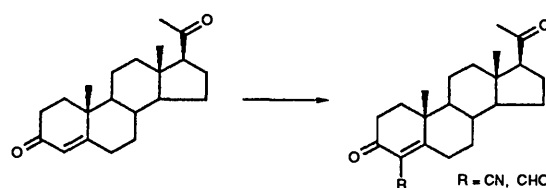


- 2901 **Enzymatic Synthesis of Chiral 1-Phenyl-1,2- and 1,3-diols *via* Chiral Epoxy Alcohols**

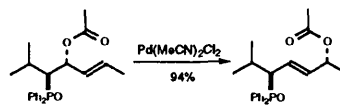


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- 2907 **New routes to 4-substituted steroids: synthesis of 4-cyanoprogesterone, a potent inhibitor of the enzyme 5 $\alpha$ -reductase**

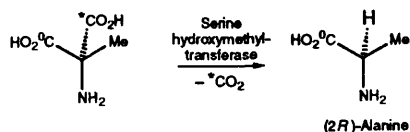


Margret Haase-Held, Maria Hatzis and John Mann

2913 The synthesis of  $\delta$ -hydroxy allylic phosphine oxides by palladium(II)-catalysed allylic acetate transposition

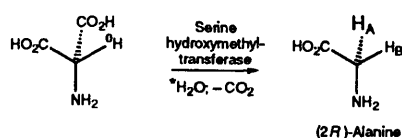
Jonathan Clayden and Stuart Warren

## 2925 Stereochemical course of the decarboxylation of 2-amino-2-methylmalonic acid by serine hydroxymethyltransferase



Neil R. Thomas, Verne Schirch and David Gani

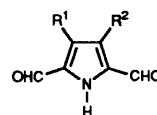
## 2933 Decarboxylation of 2-aminomalonic acid by serine hydroxymethyltransferase is, in fact, a stereospecific process



Neil R. Thomas, Janet E. Rose and David Gani

i, Small amounts of enzyme activity  $H_A = H_B = {}^*H$ ; ii, large amounts of enzyme activity  $H_A = {}^*H, H_B = {}^0H$ 

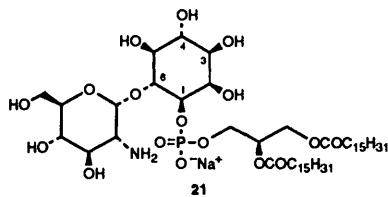
## 2939 A convenient general method for the synthesis of pyrrole-2,5-dicarbaldehydes



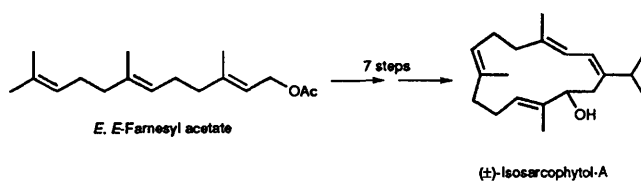
Silvano Cadamuro, Iacopo Degani, Rita Fochi, Antonella Gatti and Laura Piscopo

Pyrrole-2,5-dicarbaldehyde and its 3-mono- and 3,4-di-substituted derivatives have been synthesized from the corresponding pyrroles, via 2,5-bis(1,3-benzodithiol-2-yl)pyrroles

## 2945 Parasite glycoconjugates. Part 1. The synthesis of some early and related intermediates in the biosynthetic pathway of glycosyl-phosphatidylinositol membrane anchors



Sylvain Cottaz, John S. Brimacombe and Michael A. J. Ferguson

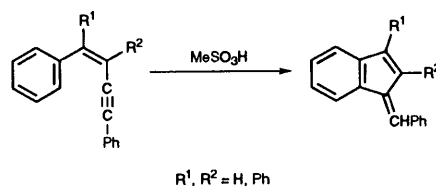
The glycosyl-phosphatidyl inositol **21** and a 3,4-positional isomer have been synthesised from enantio-pure precursors2953 Studies on macrocyclic diterpenoids. Part 10. First total synthesis of ( $\pm$ )-isosarcophytol-A

Yulin Li, Weidong Li and Ying Li

The first total synthesis of ( $\pm$ )-isosarcophytol-A was achieved from *E,E*-farnesyl acetate in 7 steps via titanium-induced dicarbonyl macrocyclization

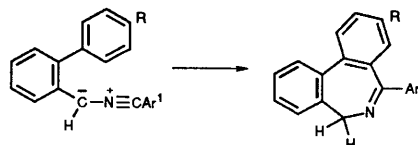
- 2957 Vinyl cations in organic synthesis. Part 2. A novel synthesis of methylene-1*H*-indenes (benzofulvenes) by cyclisation of phenyl-substituted but-1-en-3-yne

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- 2961 Reactions of diene-conjugated 1,3-dipolar intermediates: a versatile and efficient route to dibenz[*c,e*]azepines via Benzonitrile *o*-arylbzyl ylides<sup>1</sup>

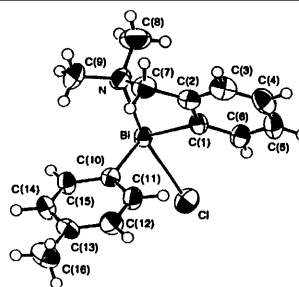
Kevin E. Cullen and John T. Sharp



Biaryl-conjugated nitrile ylides cyclise to give dibenz[*c,e*]azepines in high yield

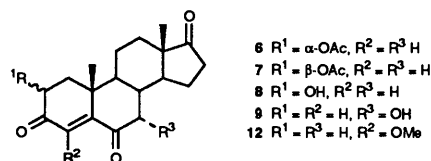
- 2969 Chiral chlorobismuthines stabilized by the intramolecular coordination of an *N,N*-dimethylamino group: X-ray structure analysis, asymmetric induction at the bismuth centre, and dynamic behaviour in solution

Hitomi Suzuki, Toshihiro Murafuji, Yoshihiro Matano and Nagao Azuma



- 2975 The solvolytic ring opening of a 4β,5β-epoxy-3,6-dione steroid: preparation of potential aromatase inhibitors

Mitsuteru Numazawa and Mii Tachibana



4-Ene-3,6-dione steroids **6–9** and **14** are prepared as aromatase inhibitors

- 2979 Vinyl epoxides: reagents for radical-induced DNA cleavage

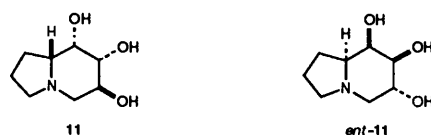
Anthony P. Breen and John A. Murphy



Allyloxy radicals, **2**, formed by addition of thiyl radicals to vinyl epoxides, function as DNA cleaving agents

- 2991 Selective reactions using *N*-(*tert*-butoxycarbonyl)-2-(*tert*-butyldimethylsiloxy)pyrrole: concise asymmetric syntheses of (+)-1-deoxy-8-*epi*-castanospermine and its enantiomer.

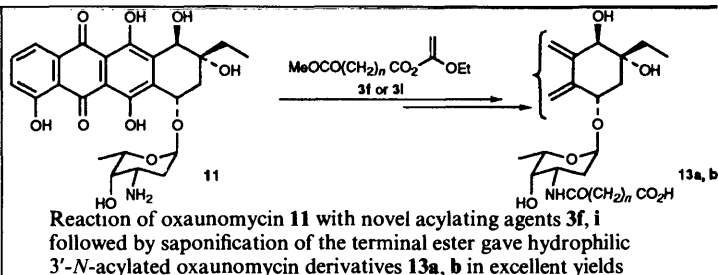
Giovanni Casiraghi, Fausta Ulgheri, Pietro Spanu, Gloria Rassu, Luigi Pinna, Giovanna Gasparri Fava, Marisa Belicchi Ferrari and Giorgio Pelosi



The title enantiomeric indolizidines have been synthesized by starting with *N*-(*tert*-butoxycarbonyl)-2-(*tert*-butyldimethylsiloxy)pyrrole and *L*- and *D*-threose, respectively

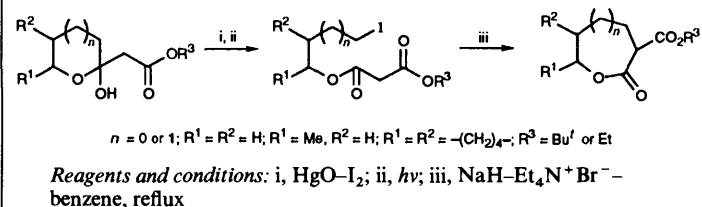
- 2999 **Novel efficient synthesis of 1-ethoxyvinyl esters using ruthenium catalysts and their use in acylation of amines and alcohols: synthesis of hydrophilic 3'-N-acylated oxanomycin derivatives**

Yasuyuki Kita, Hiroshi Maeda, Kana Omori, Takayuki Okuno and Yasumitsu Tamura



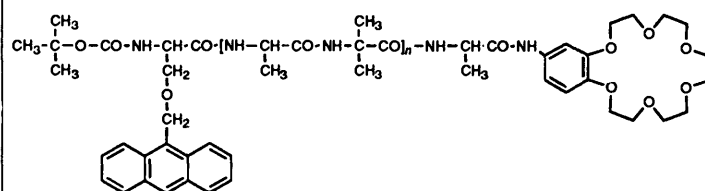
- 3007 **Photoinduced molecular transformations. Part 144. One-carbon intercalation of  $\gamma$ - and  $\delta$ -lactones involving the  $\beta$ -scission of alkoxy radicals as the key step: synthesis of  $\delta$ - and  $\epsilon$ -lactones with  $\alpha$ -substituents**

Kazuhiro Kobayashi, Hiroki Minakawa, Hideo Sakurai, Sachiko Kujime and Hiroshi Suginome



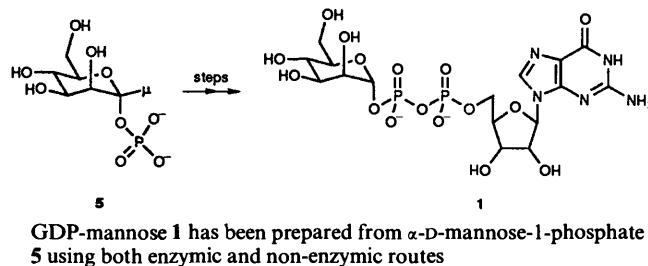
- 3011 **Effects of cation binding to hydrophobic helical peptides on orientation, aggregation, and ion-channel activity in phospholipid bilayer membranes**

Kazuya Otoda, Shunsaku Kimura and Yukio Imanishi



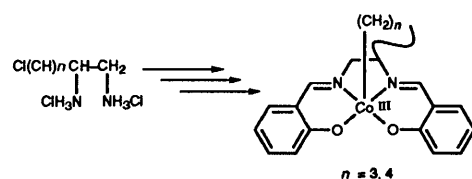
- 3017 **Chemo-enzymic synthesis of guanosine 5'-diphosphomannose (GDP-mannose) and selected analogues**

Jane E. Pallanca and Nicholas J. Turner



- 3023 **Intramolecularly alkylated salen complexes: new models for coenzyme  $B_{12}$  with a cobalt-to-ligand carbon bridge**

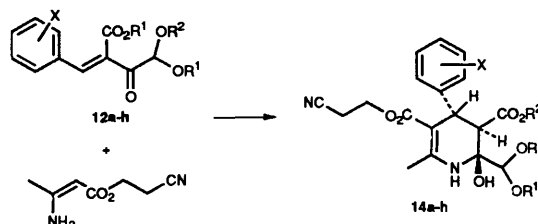
Bert van Arkel, Juul L. van der Baan, Sijbe Balt, Friedrich Bickelhaupt, Martinus W. G. de Bolster, Irene E. Kingma, Gerhard W. Klumpp, Jan W. E. Moos and Anthony L. Spek



The synthesis and structure of the title compounds are described

- 3033 **Chemistry of Hantzsch cyclization: stereochemistry of the 2-hydroxy-1,2,3,4-tetrahydropyridine intermediate of Hantzsch cyclization. X-Ray molecular structure of diastereoisomers of 5-(2-cyanoethyl) 3-methyl 2-dimethoxymethyl-2-hydroxy-6-methyl-4-(3-nitrophenyl)-1,2,3,4-tetrahydropyridine-3,5-dicarboxylates**

Toshihisa Ogawa, Keita Matsumoto, Katsuo Hatayama, Kunihiro Kitamura and Yasuyuki Kita



3041 *Candida cylindracea* lipase-catalysed hydrolysis of methyl aziridine-2-carboxylates and -2,3-dicarboxylates

Maria Bucciarelli, Arrigo Forni, Irene Moretti, Fabio Prati and Giovanni Torre



R = H, Cl, Ac, COPr, SO<sub>2</sub>Me, SO<sub>2</sub>Tol-*p*

*Candida cylindracea* lipase catalysed the enantioselective hydrolysis of aziridinecarboxylates

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NOTE: An asterisk in the heading of each paper indicates the author who is to receive any correspondence.

