

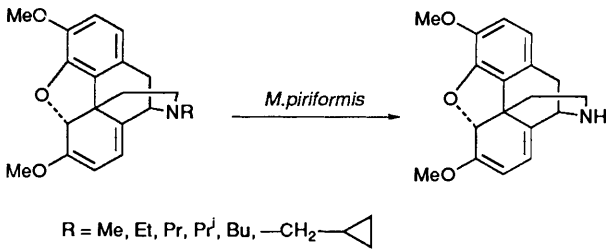

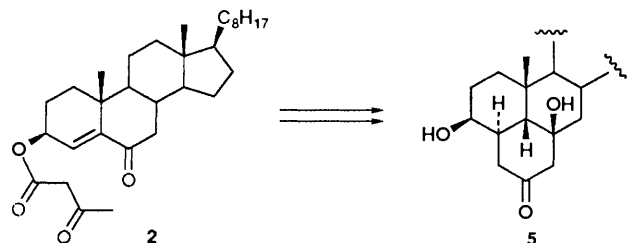
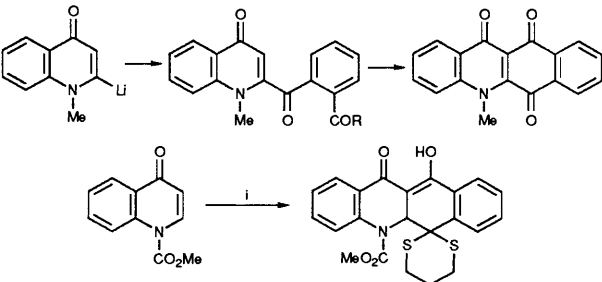
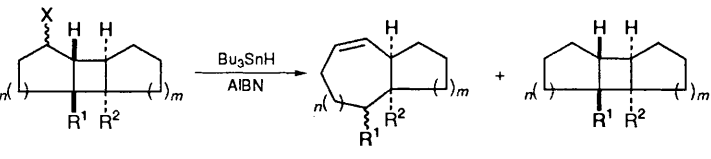
## JOURNAL OF THE CHEMICAL SOCIETY

## Perkin Transactions 1

## Organic and Bio-organic Chemistry

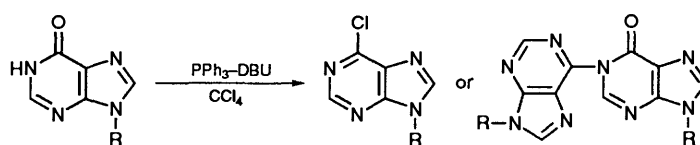
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<p>911 <i>Mucor piriformis</i>, an efficient <i>N</i>-dealkylating reagent for thebaine and its <i>N</i>-variants</p> <p>K. M. Madyastha and G. Vijay Bhasker Reddy</p>	 <p>R = Me, Et, Pr, Pr<sup>i</sup>, Bu, —CH<sub>2</sub>—</p>
<p>913 Stereocontrol in intramolecular Michael–Aldol reaction sequences of 3-acetoacetoxycholest-4-en-6-ones</p> <p>James R. Bull and Joost H. S. Borry</p>	
<p>917 Synthesis of benz[<i>b</i>]acridine-6,11,12-triones</p> <p>Mercedes Alvarez, Wadi Ajana, Francisco López-Calahorra and John A. Joule</p>	 <p>Reagents: i, methyl 2-(1,3-dithian-2-yl)benzoate, LDA</p>
<p>921 Two-carbon ring expansion through free cyclobutylcarbiny radical fragmentation</p> <p>Brindaban C. Ranu and Asish R. Das</p>	

- 923 **Reaction of 3',5'-di-*O*-acetyl-2'-deoxyinosine with the chlorinating agent  $\text{PPh}_3\text{-CCl}_4$ : synthesis of the 6-chloroderivative and of a new base linked dimer, useful intermediate to  $^{15}\text{N}$ -1-labelled 2'-deoxyinosine**

L. De Napoli, A. Messere, D. Montesarchio, G. Piccialli, C. Santacroce and M. Varra

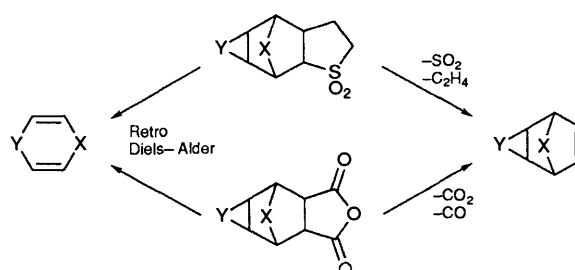


R = 2-deoxy-3, 5-di-*O*-acetyl- $\beta$ -D-ribofuranosyl

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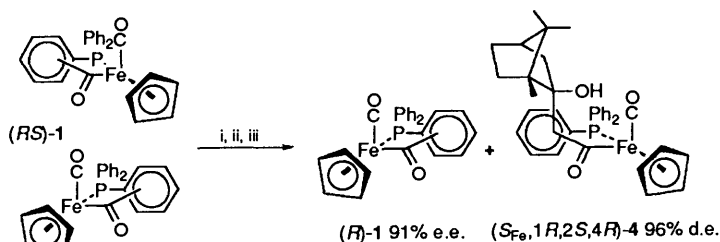
- 927 **Effect of ring strain on the formation and pyrolysis of some Diels–Alder adducts of 2-sulfolene (2,3-dihydrothiophene 1,1-dioxide) and maleic anhydride with 1,3-dienes and products derived therefrom**

R. Alan Aitken, J. I. G. Cadogan and Ian Gosney



- 933 **Kinetic resolution of the chiral iron acetyl complexes  $[\text{Fe}(\text{CO})(\eta^5\text{-C}_5\text{H}_5)(\text{L})\text{COCH}_3]$ - [L =  $\text{PPh}_3$ ,  $\text{P}(p\text{-tolyl})_3$ ] via aldol reactions with camphor**

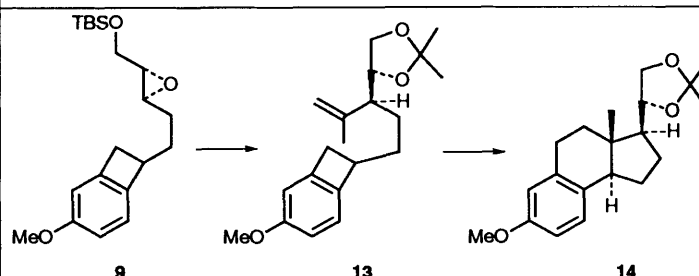
Stephen C. Case-Green, James F. Costello, Stephen G. Davies, Nicholas Heaton, Charles J. R. Hedgecock, Vanessa M. Humphreys, Michael R. Metzler and Jeremy C. Prime



Kinetic resolution of (*RS*)-1: Reagents i, BuLi, LiCl (1.5 equiv.), THF,  $-78^\circ\text{C}$ ; ii, (1*R*)-(+)-camphor; iii, MeOH

- 943 **Concise and practical approach to chiral des-A B-trienic corticosteroids**

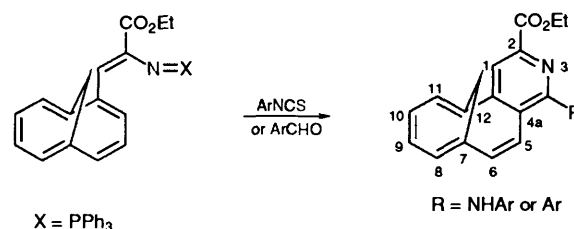
Hideo Nemoto, Atsushi Satoh and Keiichiro Fukumoto



The highly enantiocontrolled total synthesis of the des-A B-trienic corticosteroid **14** has been achieved by the thermolysis of **13** prepared from the chiral epoxide **9**

- 947 **Synthesis of 1,6-methano[10]annuleno-pyridines by tandem aza-Wittig reaction/electrocyclisation**

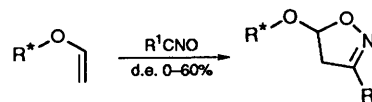
Thomas Bohn, Walter Kramer, Richard Neidlein and Hans Suschitzky



X =  $\text{PPh}_3$

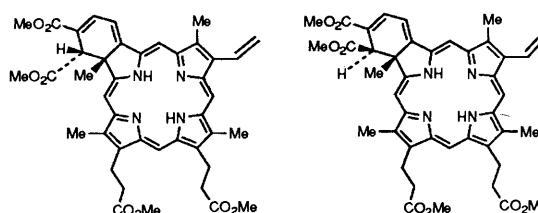
R =  $\text{NHAr}$  or Ar

## 953 Cycloaddition of nitrile oxides to homochiral vinyl ethers

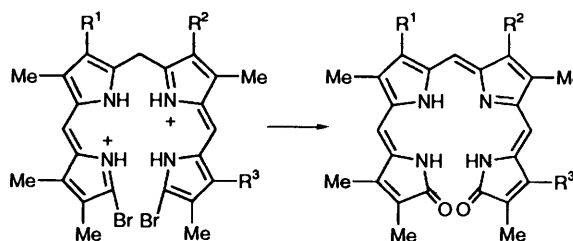


Andrew N. Boa, David A. Dawkins, Antonio R. Hergueta and Paul R. Jenkins

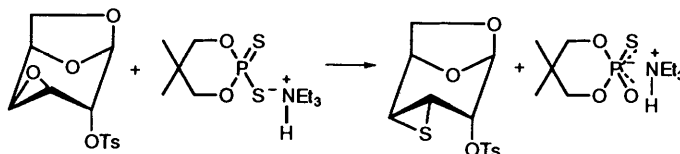
## 961 Benzoporphyrin derivatives: synthesis, structure, and preliminary biological activity



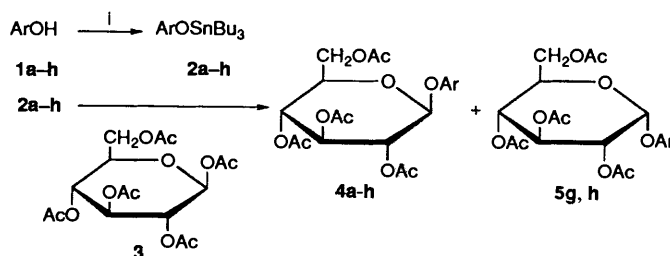
Isabelle Meunier, Ravindra K. Pandey, Mathias O. Senge, Thomas J. Dougherty and Kevin M. Smith

971 New syntheses of biliverdins, corroles and azaporphyrins from 1,19-dibromo-*ac*-biladiene salts

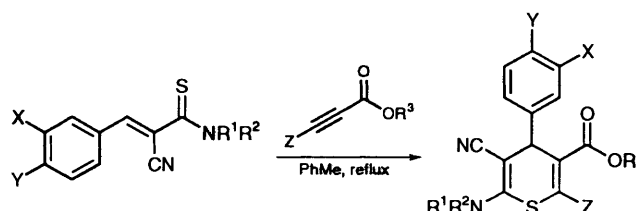
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979 Novel observations on thiophosphoryl-group transfer in sugar  $\beta$ -hydroxy phosphorodithioate systems. Synthesis and X-ray molecular structure of 1,6-anhydro-3,4-dideoxy-3,4-epithio-2-*O*-(*p*-tolylsulfonyl)- $\beta$ -D-allopyranose

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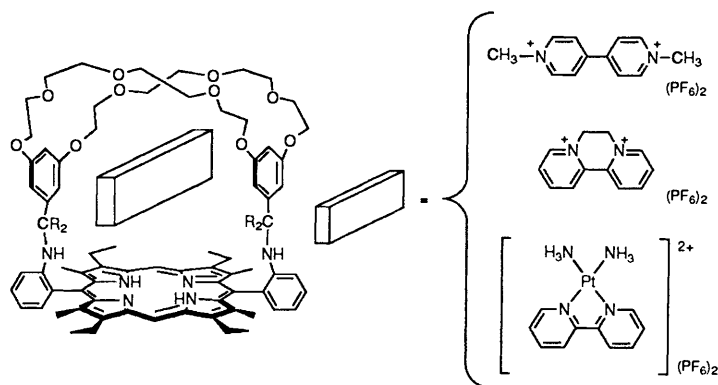
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989 Reaction of 3-aryl-2-cyanothioacrylamides with electron-deficient alkynes: synthesis of 4-aryl-4*H*-thiopyrans

Jason Bloxham and Colin P. Dell

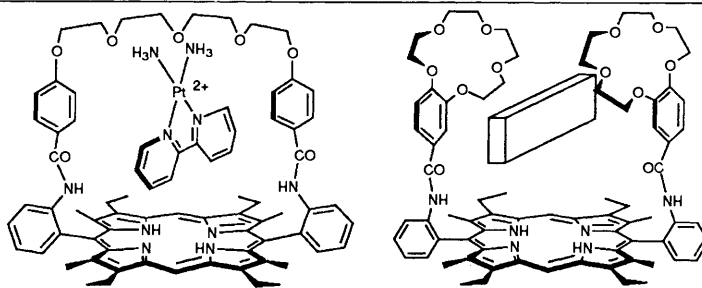
995 **Porphyrin–crown ether macrotricyclic co-receptors for bipyridinium cations**

Maxwell J. Gunter and Martin R. Johnston



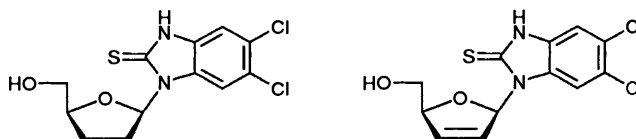
1009 **Porphyrin–crown ether based macrocyclic receptors for bipyridinium cations**

Maxwell J. Gunter, Martin R. Johnston, Brian W. Skelton and Allan H. White



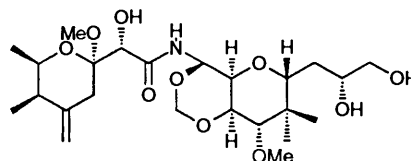
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Christophe Mathé, Christian Périgaud, Gilles Gosselin and Jean-Louis Imbach



1025 **Chemistry of the mycalamides, antiviral and antitumour compounds from a marine sponge. Part 4. Reactions of mycalamide A and alkyl derivatives with basic nucleophiles**

Andrew M. Thompson, John W. Blunt, Murray H. G. Munro and Bruce M. Clark



Cyclisation, cleavage and epimerisation reactions of mycalamide A and its alkylated derivatives are described

1033 **Homolytic reactions of ligated boranes. Part 18. The scope of enantioselective hydrogen-atom abstraction by chiral amine–boryl radicals for kinetic resolution under conditions of polarity reversal catalysis**

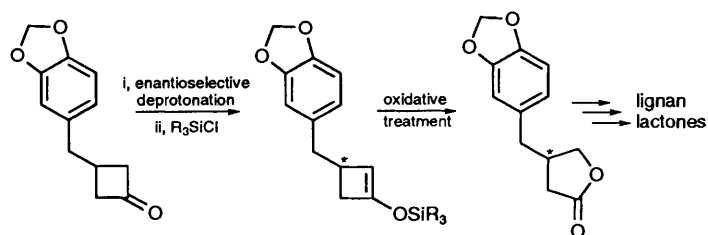
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Kinetic resolution of carbonyl-containing compounds A using enantioselective  $\alpha$ -hydrogen-atom abstraction by optically active amine–boryl radicals of the type B

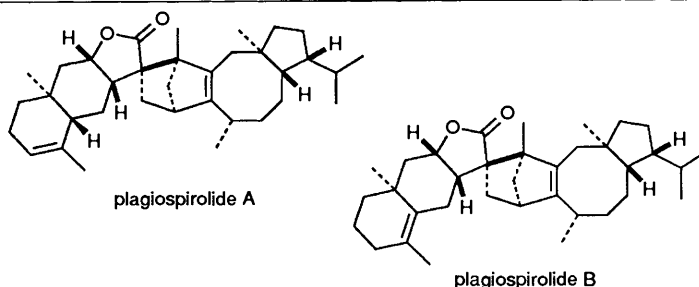
1043 **Chiral synthesis of lignan lactones, (–)-hinokinin, (–)-deoxypodorhizone, (–)-isohibolactone and (–)-savinin by means of enantioselective deprotonation strategy**

Toshio Honda, Nobuaki Kimura, Shigeki Sato, Daishiro Kato and Hideo Tominaga



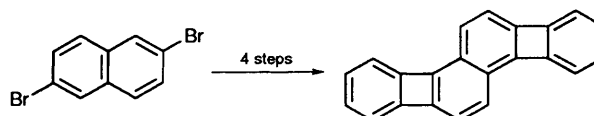
1047 **Total synthesis of optically active plagiospirolides A and B. Highly stereoselective biomimetic Diels–Alder reaction**

Nobuo Kato, Xue Wu, Hideyuki Nishikawa, Kohji Nakanishi and Hitoshi Takeshita



1055 **Cyclobutarenes. Part 4. Biphenyleno[2,1-*a*]-biphenylene**

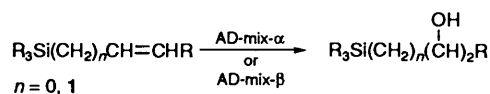
Michael K. Shepherd



The structure of the title compound is compared with those of the [2,3-*a*]- and [2,3-*b*]-isomers

1061 **Asymmetric dihydroxylation of vinyl- and allyl-silanes**

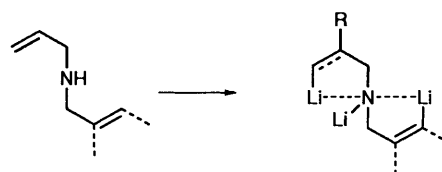
Alan R. Bassindale, Peter G. Taylor and Youli Xu



*E* and *Z* allyl- or vinyl-silanes undergo asymmetric dihydroxylation using Sharpless AD-mix- $\alpha$  or  $\beta$  reagents

1069 **Trianions by regio- and stereo-selective lithiation of diallyl amines and structurally related compounds. Synthetic applications**

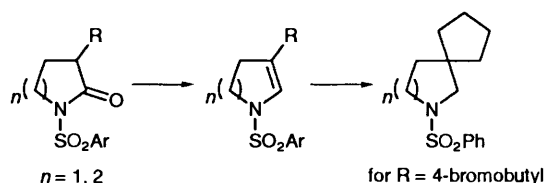
José Barluenga, Rosario González, Francisco J. Fañanás, Miguel Yus and Francisco Foubelo



Diallyl amines and related compounds can be converted into several trianionic species

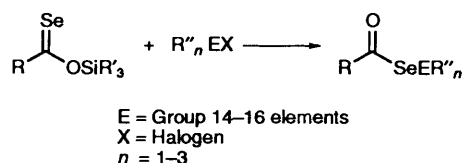
1079 **Preparation and intramolecular radical cyclization of some cyclic *N*-sulfonylenamines**

Jens Åhman and Peter Somfai



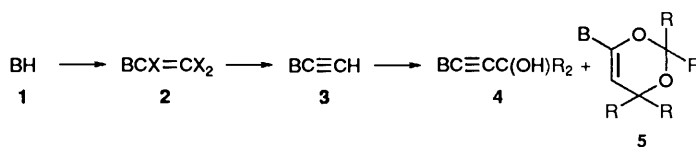
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Hideki Kageyama, Kenji Kido, Shinzi Kato and Toshiaki Murai



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Ramachandra V. Joshi, Ze-Qi Xu, Mohamad B. Ksebati, David Kessel, Thomas H. Corbett, John C. Drach and Jiri Zemlicka

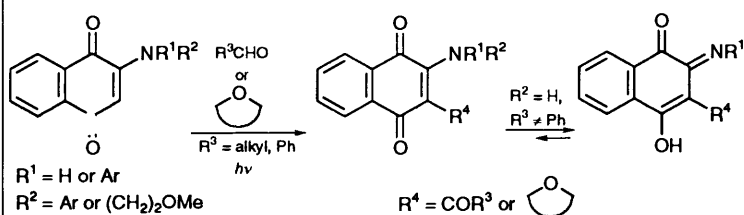


B = nucleobase, X = Cl or H, R = alkyl

Syntheses of chloro enamines **2** (from nucleobases **1**), ynamines **3** and reactions of **3** with ketones to give **4** and/or **5** are described

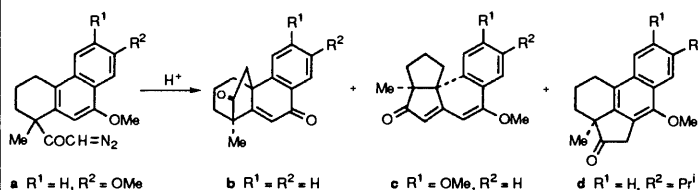
1099 Photoinduced molecular transformations. Part 146. Photoacylation and photoalkylation of 2-arylamino- and 2-alkylamino-1,4-naphthoquinones

Kazuhiro Kobayashi, Masayoshi Suzuki, Hiroyasu Takeuchi, Atsushi Konishi, Hideo Sakurai and Hiroshi Suginome



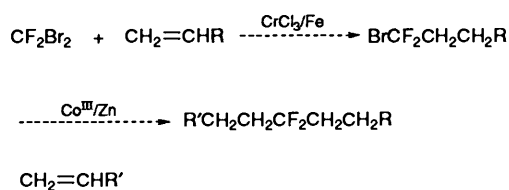
1105 Condensed cyclic and bridged-ring systems. Part 15. Acid-catalysed intramolecular alkylations in 1-diazoacetyl-1,2,3,4-tetrahydro-9-methoxy-1-methylphenanthrenes

Sitaram Pal, Bimal K. Banik and Usha Ranjan Ghatak



1111 Synthesis of functionalized compounds containing a difluoromethylene moiety

Jian Chen and Chang-Ming Hu



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**B. Langstrom and Y. Andersson**

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**H. Katayama and J.-K. Shen**

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Furan-2(3*H*)- and -2(5*H*)-ones. Part 5. Photoreaction of the 3-(Phenylmethyl)furan-2(5*H*)-one System  
**O. Muraoka, G. Tanabe, K. Sano, T. Minematsu and T. Momose**

Synthesis of 5*a*,11*b*-Propanonaphtho[1,2-*e*][1,2]oxazepines as Potential Opioid Analgesics **M. Kratzel**

Oxidative Free-radical Additions of  $\alpha$ -Nitroketones and  $\alpha$ -Nitroamides to Alkenes and Alkynes Mediated by Electrochemically Regenerable Manganese(III) Acetate **R. Warsinsky and E. Steckhan**

Studies on Reactions of Nucleoside H-Phosphonates with Bifunctional Reagents. Part 2. Stability of Nucleoside H-Phosphonate Diesters in the Presence of Amino Alcohols **A. Kraszewski, A. Sobkowska, J. Stawinski and M. Sobkowski**

(-)-Quinic Acid in Organic Synthesis. Part 4. Syntheses of Cyclophellitol and its (1*R*,6*S*)-, (1*R*,2*S*,6*S*)-Diastereoisomers  
**T.K.M. Shing and V.W.-F. Tai**

Aryllead Triacetates as Synthons for the Synthesis of Biflavonoid. Part 1. Synthesis and Reactivity of a Flavanonyllead Triacetate **J.-P. Finet, B.M. Fitzpatrick and D.M.X. Donnelly**

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Synthesis and Colour Development Properties of Indoaniline-type Near-IR Colour Formers **Y. Kubo**

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