

## JOURNAL OF THE CHEMICAL SOCIETY

## Perkin Transactions 1

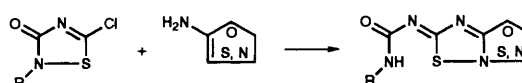
## Organic and Bio-organic Chemistry

## CONTENTS

## Perkin Communications

- 1825 **A new approach to azapentalenes by an addition-rearrangement sequence: Synthesis of fused 1,2,4-thiadiazoles**

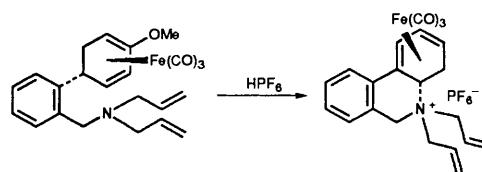
Gerrit L'abbé, Johan Buelens and Wim Dehaen



The reactions of 5-chloro-1,2,4-thiadiazol-3(2*H*)-ones with 2-aminoazoles yield rearranged 1,2,4-thiadiazoles

- 1827 **Leaving group placement to control the stereoselective organoiron-based synthesis of regioisomeric tetrahydrophenanthridine derivatives**

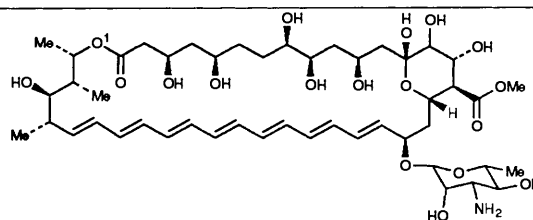
Alexander McKillop, G. Richard Stephenson and Michael Tinkl



Stereoselective intramolecular cyclisations of tricarbonyl(cyclohexadiene)iron(0) complexes

- 1829 **Stereoselective syntheses of the 14-hydroxy epimers of amphotericin B methyl ester**

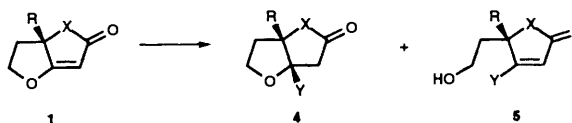
Benjamin J. Costello, Michael J. Driver, William S. MacLachlan and Andrew W. Taylor



The syntheses of (14*R*)-hydroxyamphotericin B methyl ester **8** and its (14*S*)-epimer **12** are reported

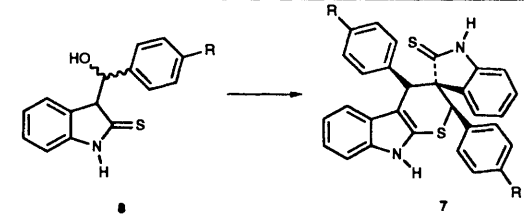
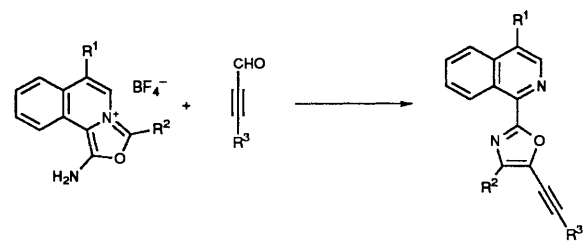
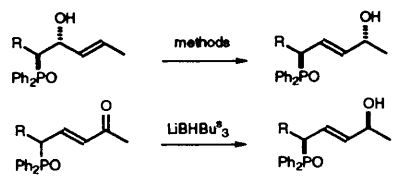
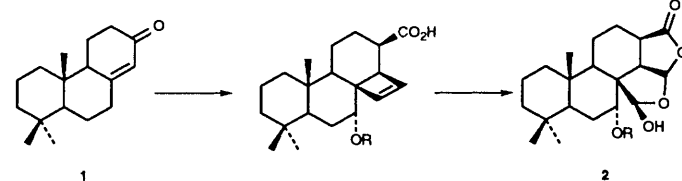
- 1831 **Substitution and Michael reactions of bicyclic tetronic, tetramic and thiotetronic esters**

Alberto Bertucco, John Brennan, Marco Fachini, Sabine Kluge, Patrick J. Murphy, Francesca Pasutto, Raffaella Signorini and Harri Lloyd Williams



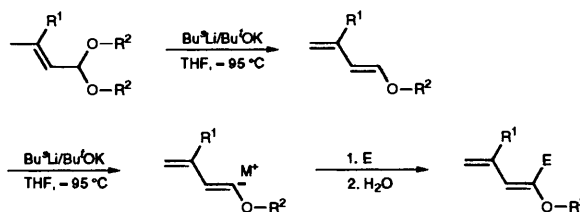
Reaction of heterocycles **1** with nucleophiles led to the formation of a range of addition **4** and substitution **5** products (X = O, NH, S; R = H, Me; Y = OR, SR, NHR, O<sub>2</sub>CCF<sub>3</sub>, Me, Bu)

## Articles

<p>1835 <b>Facile dimerisation of 3-benzylideneindoline-2-thiones</b></p> <p>Andrew M. Thompson, Maruta Boyd and William A. Denny</p>	 <p>In solution, indolinethiones (e.g., <b>8</b>) rapidly form the corresponding unsymmetrical dimers (e.g., <b>7</b>)</p>
<p>1839 <b>Novel cycloadditions of isoquinoline Reissert salts</b></p> <p>Andrew W. Bridge, Michael B. Hursthouse, Christian W. Lehmann, David J. Lythgoe and Christopher G. Newton</p>	
<p>1849 <b>Stereochemical control (<i>E/Z</i> and <i>syn/anti</i>) by the diphenylphosphinoyl group in the synthesis of allylic alcohols by allylic rearrangement and by 1,4-diastereoselective reduction of enones</b></p> <p>Jonathan Clayden, Eric W. Collington, Jason Elliott, Stephen J. Martin, Andrew B. McElroy, Stuart Warren and David Waterson</p>	
<p>1861 <b>Spongian pentacyclic diterpenes. Stereoselective synthesis of aplyroseol-1, aplyroseol-2 and deacetylaplyroseol-2</b></p> <p>Antonio Abad, Manuel Arnó, M. Luisa Marín and Ramón J. Zaragoza</p>	 <p>The enantioselective synthesis of aplyroseol-1 <b>1</b> (R = COPr), aplyroseol-2 <b>2</b> (R = Ac) and deacetylaplyroseol-2 <b>2</b> (R = H) has been effected from podocarpenone (+)-<b>1</b></p>
<p>1869 <b><i>cis</i>-Stereoisomers of <math>\beta</math>-carotene and its congeners in the alga <i>Dunaliella bardawil</i>, and their biogenetic interrelationships</b></p> <p>Warren J. Ebenezer and Gerald Pattenden</p>	<p>15-<i>cis</i>-Phytoene and 9-<i>cis</i>-phytofluene co-occur with 9-<i>cis</i>-<math>\beta</math>-carotenes in <i>D. bardawil</i>, suggesting for the first time that phytoene is the clear branch point for the formation of 9-<i>cis</i>-<math>\beta</math>-carotene in the alga</p>

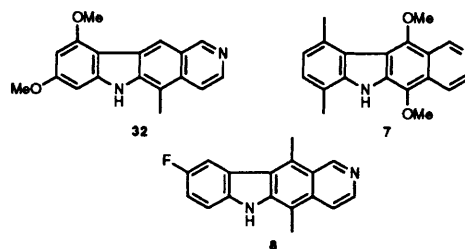
1875 Alkylation of enol ethers obtained by treatment of  $\alpha,\beta$ -unsaturated acetals with organopotassium reagents: An inverse polarity approach

Carlo Canepa, Cristina Prandi, Luca Sacchi and Paolo Venturello



1879 A flexible approach to pyrido[4,3-*b*]carbazoles. The syntheses of 8,10-dimethoxy-5-methyl-, 5,11-dimethoxy-7,10-dimethyl- and 9-fluoro-5,11-dimethylpyrido[4,3-*b*]carbazoles by variations of the 'Type D' route

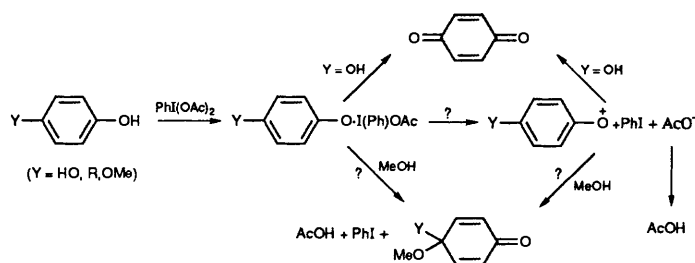
Robin J. Hall, Priyanthi Dharmasena, Jeremy Marchant, Ana-M. F. Oliveira-Campos, Maria-Joao R. P. Queiroz, Manuela M. Raposo and Patrick V. R. Shannon



Syntheses of the pyrido[4,3-*b*]carbazoles **32**, **7** and **8** are described

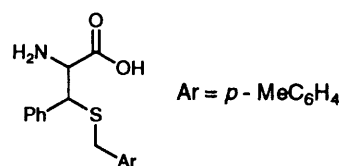
1891 Phenolic oxidations with phenyliodonium diacetate

Andrew Pelter and Said M. A. Elgendy



1897 *S-p*-Methylbenzyl- $\beta$ -phenylcysteine: A potential tool for probing receptor topologies

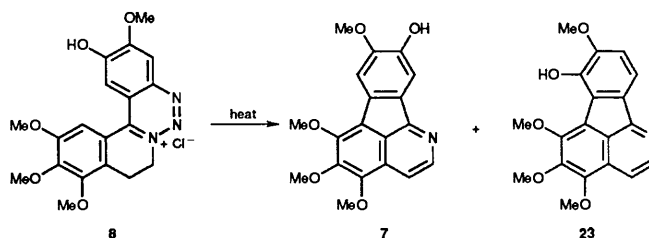
Gérald Villeneuve, John DiMaio, Tak Hang Chan and André Michel



Both diastereoisomers of the title compound were prepared and resolved as their trifluoroacetamides using carboxypeptidase A

1905 Studies directed towards total syntheses of the tropoisoquinoline alkaloids grandirubrine and imerubrine. Part 2. Thermolysis of 8,9-dihydro-2-hydroxy-3,10,11,12-tetramethoxyisoquinolo[2,1-*c*]-[1,2,3]benzotriazin-7-ium chloride: Competitive modes of cyclisation leading to the indeno[1,2,3-*ij*]isoquinoline (azafluoranthene) skeleton

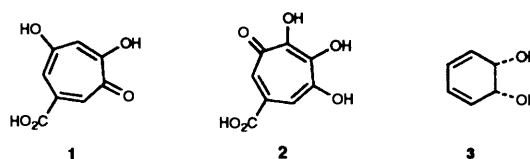
Martin G. Banwell, Ernest Hamel, Neil K. Ireland, Maureen F. Mackay and Algirdas K. Serelis



Thermolysis of the salt **8** results in the formation of a mixture of, *inter alia*, compounds **7** and **23**

1913 *cis*-Dihydrocatechols as precursors to highly oxygenated troponoids. Part 2. Regiocontrolled syntheses of stiptitatic and puberulic acids

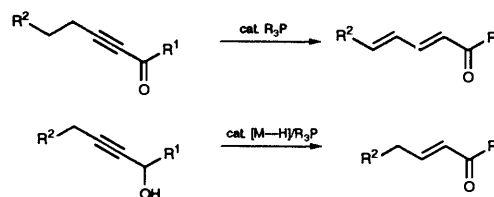
Martin G. Banwell, Maree P. Collis, Maureen F. Mackay and Sharon L. Richards



The title acids **1** and **2** have each been synthesised from the commercially available *cis*-1,2-dihydrocatechol **3**

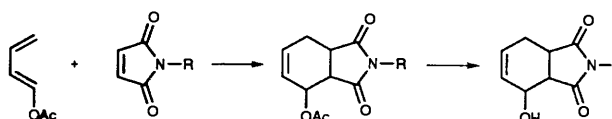
1921 Reinvestigation on the catalytic isomerisation of carbon-carbon triple bonds

Cheng Guo and Xiyun Lu



1925 An antibody with dual catalytic activity

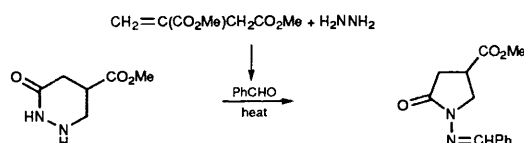
Colin J. Suckling, M. Catriona Tedford, Laura M. Bence, June I. Irvine and William H. Stimson



Antibody H11 catalyses the Diels-Alder cycloaddition of acetoxybutadiene and *N*-alkylmaleimides ( $R = \text{Et, Bz}$ ) and subsequent hydrolysis of the acetate ester

1931 Reaction of dimethyl methylenesuccinate with hydrazine

Marina Vinnikova, David Gertner, Shmuel Cohen and Albert Zilkha



## AUTHOR INDEX

- Abad, Antonio, 1861  
Arnó, Manuel, 1861  
Banwell, Martin G., 1905, 1913  
Bence, Laura M., 1925  
Bertucco, Alberto, 1831  
Boyd, Maruta, 1835  
Brennan, John, 1831  
Bridge, Andrew W., 1839  
Buelens, Johan, 1825  
Canepa, Carlo, 1875  
Chan, Tak Hang, 1897  
Clayden, Jonathan, 1849  
Cohen, Shmuel, 1931  
Collington, Eric W., 1849  
Collis, Maree P., 1913  
Costello, Benjamin J., 1829  
Dehaen, Wim, 1825  
Denny, William A., 1835  
Dharmasena, Priyanthi, 1879  
DiMaio, John, 1897  
Driver, Michael J., 1829  
Ebenezer, Warren J., 1869  
Elgendy, Said M. A., 1891  
Elliott, Jason, 1849  
Fachini, Marco, 1831  
Gertner, David, 1931  
Guo, Cheng, 1921  
Hall, Robin J., 1879  
Hamel, Ernest, 1905  
Hursthouse, Michael B., 1839  
Ireland, Neil K., 1905  
Irvine, June I., 1925  
Kluge, Sabine, 1831  
L'abbé, Gerrit, 1825  
Lehmann, Christian W., 1839  
Lu, Xiyang, 1921  
Lythgoe, David J., 1839  
Mackay, Maureen F., 1905, 1913  
MacLachlan, William S., 1829  
Marchant, Jeremy, 1879  
Marín, M. Luisa, 1861  
Martin, Stephen J., 1849  
McElroy, Andrew B., 1849  
McKillop, Alexander, 1827  
Michel, André, 1897  
Murphy, Patrick J., 1831  
Newton, Christopher G., 1839  
Oliveira-Campos, Ana-M. F., 1879  
Pasutto, Francesca, 1831  
Pattenden, Gerald, 1869  
Pelter, Andrew, 1891  
Prandi, Cristina, 1875  
Queiroz, Maria-Joao R. P., 1879  
Raposo, Manuela M., 1879  
Richards, Sharon L., 1913  
Sacchi, Luca, 1875  
Serelis, Algirdas K., 1905  
Shannon, Patrick V. R., 1879  
Signorini, Raffaella, 1831  
Stephenson, G. Richard, 1827  
Stimson, William H., 1925  
Suckling, Colin J., 1925  
Taylor, Andrew W., 1829  
Tedford, M. Catriona, 1925  
Thompson, Andrew M., 1835  
Tinkl, Michael, 1827  
Venturello, Paolo, 1875  
Villeneuve, Gérald, 1897  
Vinnikova, Marina, 1931  
Warren, Stuart, 1849  
Waterson, David, 1849  
Williams, Harri Lloyd, 1831  
Zaragoza, Ramón J., 1861  
Zilkha, Albert, 1931

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

