

JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions 1

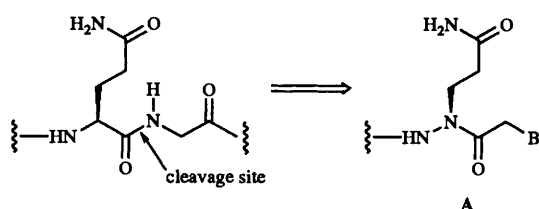
Organic and Bio-organic Chemistry

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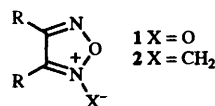
- 1081 Potent inhibitor of the human rhinovirus (HRV) 3C protease containing a backbone modified glutamine

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- 1083 The behaviour of the furazan-*N*-methanide analogue of the furoxan system. Ring expansion: new routes to 6*H*-1,2,5-oxadiazines. A combined experimental and theoretical study

Richard N. Butler, Karen M. Daly, John M. McMahon and Luke A. Burke



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- 1085 Efficient regiospecific synthesis of two cytotoxic furonaphthoquinones, 5,7-dimethoxy-4,9-dihydronaphtho[2,3-*b*]furan-4,9-dione and 5,6,7-trimethoxy-4,9-dihydronaphtho[2,3-*b*]furan-4,9-dione

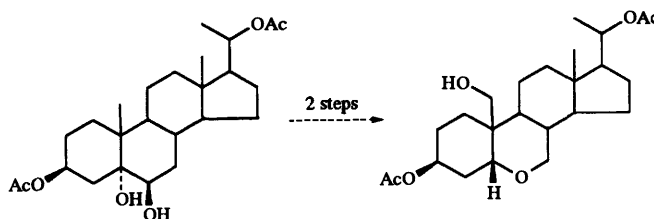
Philip J. Perry, Vasilios H. Pavlidis, John A. Hadfield and Ian G. C. Coutts



Two cytotoxic quinones **8a** and **8b** have been prepared

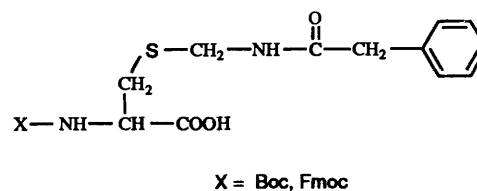
1089 **Simple synthetic approach to 6-oxa steroids. Synthesis of 6-oxa-5 β -pregnane-3,20-dione**

Daniel Nicoletti, Alberto A. Ghini, Adriana L. Brachet-Cota and Gerardo Burton



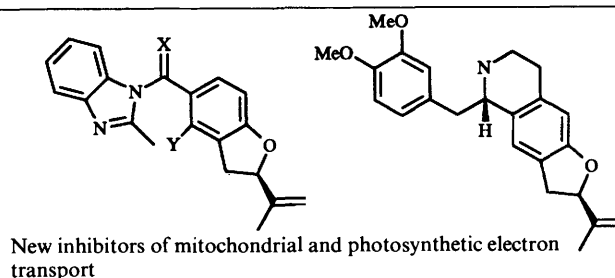
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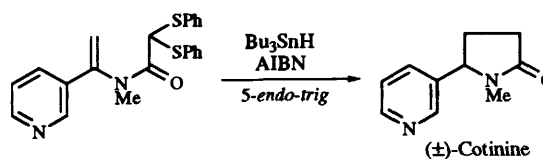
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G. Stuart Cockerill, Philip C. Levett and Donald A. Whiting



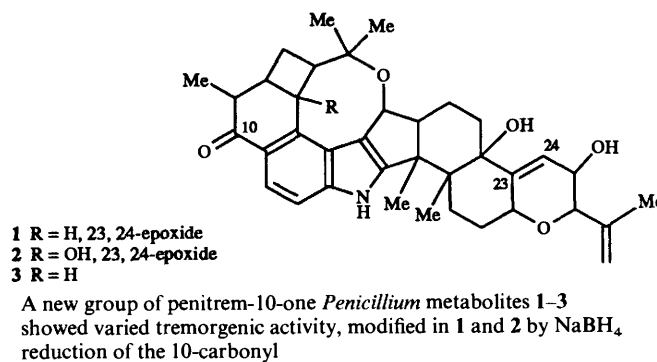
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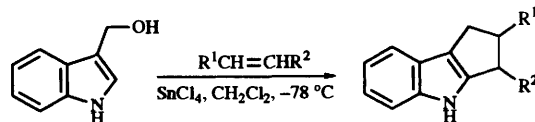
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1127 **Cyclopenta[*b*]indoles. Part 1. Synthesis of cyclopenta[*b*]indoles by formal [3 + 2] addition of indolymethyl cations to alkenes**

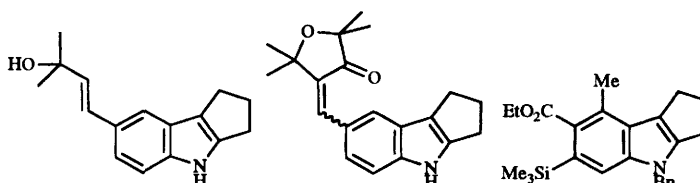
Carrie-Ann Harrison, Ralf Leineweber, Christopher J. Moody and Jonathan M. J. Williams



Treatment of indole-3-methanols with SnCl₄ in the presence of alkenes leads to cyclopenta[*b*]indoles by a formal [3 + 2] addition reaction

1131 **Cyclopenta[*b*]indoles. Part 2. Model studies towards the tremorgenic mycotoxins**

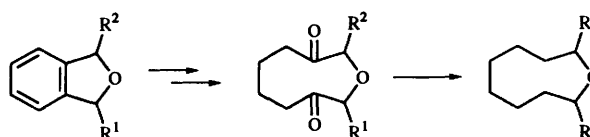
Carrie-Ann Harrison, P. Mark Jackson, Christopher J. Moody and Jonathan M. J. Williams



A range of cyclopenta[*b*]indoles was prepared either by a Fischer indole synthesis or by Diels-Alder reactions of a cyclopenta-pyranopyrrolone with alkynes

1137 **Preparation of oxonanes and azonanes by oxidative ring expansion: synthesis of obtusan**

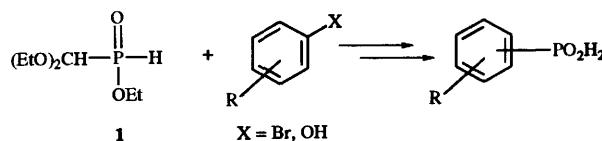
David S. Brown, Mark C. Elliott, Christopher J. Moody and Timothy J. Mowlem



Reduction of phthalans, followed by oxidative cleavage of the tetrahydro-derivative gives oxonane-3,8-diones, which can be reduced to the corresponding oxonanes

1145 **New syntheses of arylphosphinic acids from the reaction of ethyl diethoxymethylphosphinate with aryl bromides and phenols**

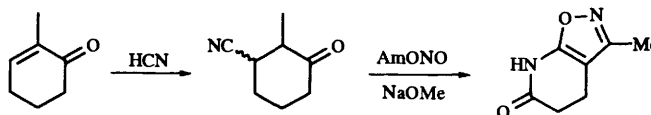
Stuart N. L. Bennett and Roger G. Hall



A range of substituted arylphosphinic acids have been prepared from the reaction of ethyl diethoxymethylphosphinate **1** with aryl bromides or phenols. In one approach, a Pd⁰-catalysed insertion reaction is used; a second approach utilises a lithium-based ortho rearrangement

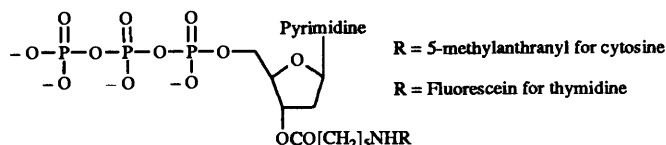
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1163 **Synthesis of fluorescent derivatives of 3'-*O*-(6-aminohexanoyl)pyrimidine nucleosides 5'-triphosphates that act as DNA polymerase substrates reversibly tagged at C-3'**

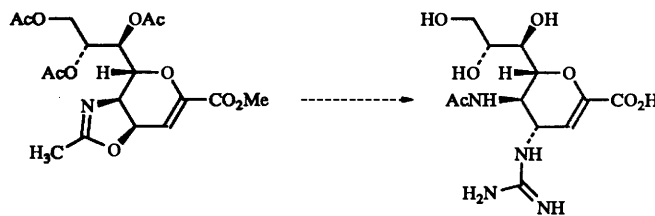
Robert S. Sarfati, Thomas Berthod, Catherine Guerreiro and Bruno Canard



Preparation and incorporation into DNA of thymidine and cytosine 5'-triphosphates bearing a 6-aminohexanoyl spacer arm labelled with fluorescein and *N*-methylisatoic acid, respectively, are described

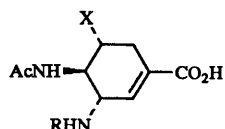
- 1173 **Synthesis of the potent influenza neuraminidase inhibitor 4-guanidino Neu5Ac2en. X-Ray molecular structure of 5-acetamido-4-amino-2,6-anhydro-3,4,5-trideoxy-D-erythro-L-glucurononic acid**

Malcolm Chandler, Mark J. Bamford, Richard Conroy, Brian Lamont, Bina Patel, Vipulkumar K. Patel, Ian P. Steeples, Richard Storer, Niall G. Weir, Michael Wright and Christopher Williamson



- 1181 **Synthesis of 6-, 7- and 8-carbon sugar analogues of potent anti-influenza 2,3-didehydro-2,3-dideoxy-N-acetylneuraminic acid derivatives**

Mark J. Bamford, Julia Castro Pichel, Wahid Husman, Bina Patel, Richard Storer and Niall G. Weir

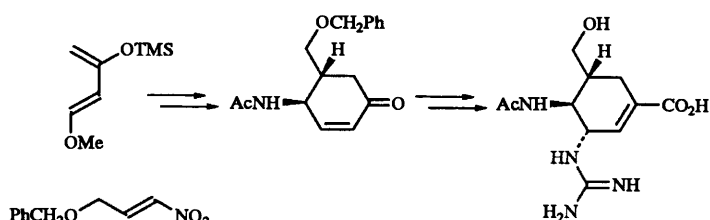


R = H, C(NH)NH₂
X = H, CH₂OH, CH(OH)CH₂OH

Synthesis of Neu5Ac2en analogues with influenza neuraminidase inhibitory activity

- 1189 **Approaches to carbocyclic analogues of the potent neuraminidase inhibitor 4-guanidino Neu5Ac2en. X-Ray molecular structure of N-[(1S,2S,6R)-2-azido-6-benzyloxymethyl-4-formylcyclohex-3-enyl]acetamide**

Malcolm Chandler, Richard Conroy, Anthony W. J. Cooper, R. Brian Lamont, Jan J. Scicinski, James E. Smart, Richard Storer, Niall G. Weir, Richard D. Wilson and Paul G. Wyatt



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- 1199 **Anodic oxidation of 3,5-dihalogenotyrosines as a model reaction for the biogenesis of the cavernicolins, metabolites of the verongid sponge *Aplysina cavernicola*** M. Cavazza, G. Guella, L. Nucci, F. Pergola, N. Biccieri and F. Pietra
- 1199 **Thermal decomposition of homoquinones** Takumi Oshima, Kazushi Tamada and Toshikazu Nagai
- 1200 **Photoinduced molecular transformations. Part 155. General synthesis of macrocyclic ketones based on a ring expansion involving a selective β -scission of alkoxy radicals, its application to a new synthesis of (\pm)-isocaryophyllene and (\pm)-caryophyllene, and a conformational analysis of the two sesquiterpenes and the radical intermediate in the synthesis by MM3 calculation** Hiroshi Suginome, Takahiko Kondoh, Camelia Gogonea, Vishwakarma Singh, Hitoshi Gotō and Eiji Ōsawa

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Synthesis and biological activity of new C-6 and C-7 substituted vinyloxyimino- penicillins and cephalosporins
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C.W. Rees and T. Besson

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