

## JOURNAL OF THE CHEMICAL SOCIETY

## Perkin Transactions 1

## Organic and Bio-organic Chemistry

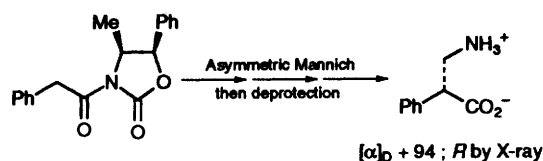
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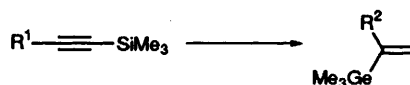
- 1 **(R)-(+)-3-Amino-2-phenylpropanoic acid: a revised absolute configuration based on an enantioselective synthesis and an X-ray crystal structure of the salt with (1S)-(+)-camphor-10-sulfonic acid**

Alice A. D'Souza, Majid Motevalli, Andrew J. Robinson and Peter B. Wyatt



- 3 **Platinum-catalysed addition of trimethylgermane to 1-trimethylsilylalk-1-yne: a convenient synthesis of functionalised 2-trimethylgermylalk-1-enes**

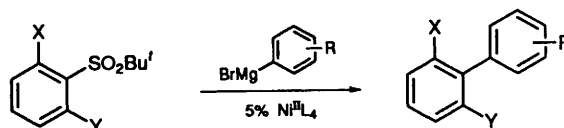
Edward Piers and René Lemieux



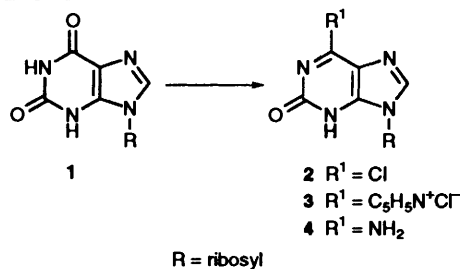
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- 7 **Nickel-catalysed substitutions of aryl *tert*-butyl sulfones with organometallic reagents: synthesis of *ortho*-substituted unsymmetrical biaryls**

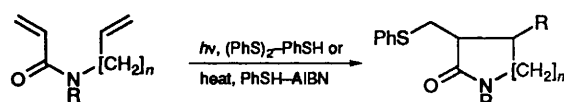
Jonathan Clayden, J. Jonathan A. Cooney and Marc Julia



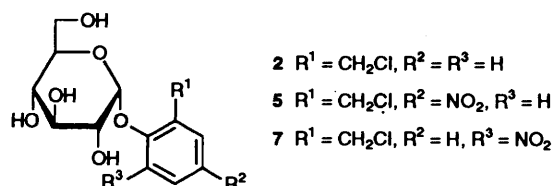
- 15 **Improved synthesis of isoguanosine and 6-substituted xanthosine derivatives**
- Lorenzo De Napoli, Daniela Montesarchio, Gennaro Piccialli, Ciro Santacroce and Michela Varra



- 19 **Radical cyclisation in heterocycle synthesis. Part 1. Sulfanyl radical addition–cyclisation of dienylamides for lactam synthesis**
- Takeaki Naito, Yuko Honda, Okiko Miyata and Ichiya Ninomiya



- 27 **(Halogenomethyl)phenyl α-D-glucopyranosides as enzyme-activated irreversible inhibitors of yeast α-glucosidase and potential anti-HIV agents**
- Josie C. Briggs, Alan H. Haines and Richard J. K. Taylor

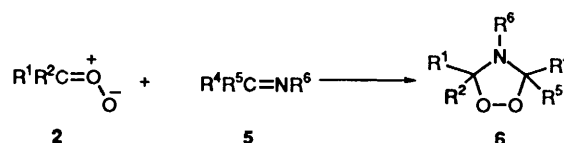


The effectiveness of (halogenomethyl)phenyl α-D-glucopyranosides as inhibitors of yeast α-glucosidase is greatly increased by the presence of a *m*-nitro substituent relative to the halogenomethyl group (e.g. 5 and 7 compared with the parent glycoside 2)

- 33 **Additivity relationships in the carbon-13 nuclear magnetic resonance spectra of polyhydroxy steroids**
- Masaru Kobayashi

Additivity relationships of the δ<sub>C</sub> values of the carbon-13 nuclear magnetic resonance spectra of polyhydroxy 5α,14α-steroids can be based on the sum of the effects of the individual 1,2- and 1,3-glycol types involved in the molecule

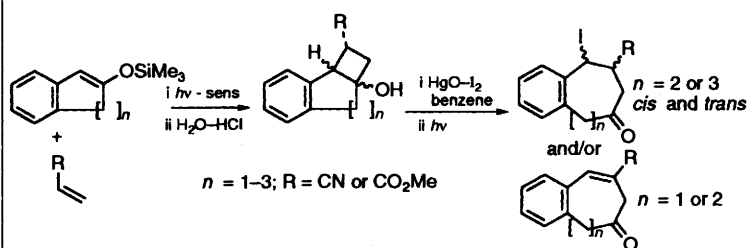
- 41 **[3 + 2] Cycloadditions of carbonyl oxides to imines: an alternative approach to the synthesis of 1,2,4-dioxazolidines**
- Kevin J. McCullough, Mitsuyuki Mori, Toshihiko Tabuchi, Hideyuki Yamakoshi, Shigekazu Kusabayashi and Masatomo Nojima



The [3 + 2] cycloaddition of carbonyl oxides 2 to imines 5 provides a convenient route to the corresponding 1,2,4-dioxazolidines 6

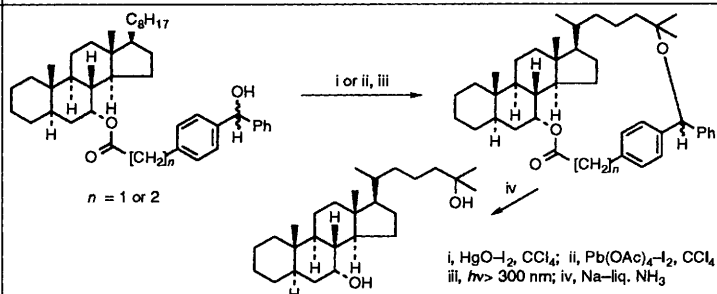
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Hiroshi Suginome, Toshihiro Takeda, Masahito Itoh, Yutaka Nakayama and Kazuhiro Kobayashi



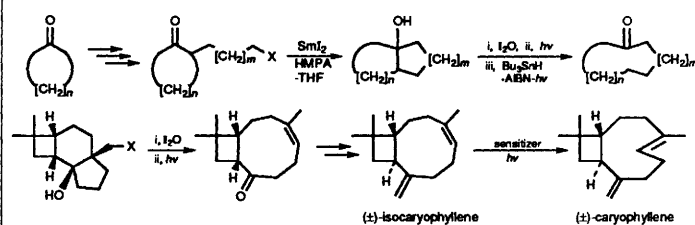
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Kazuhiro Orito, Shinji Sato and Hiroshi Suginome



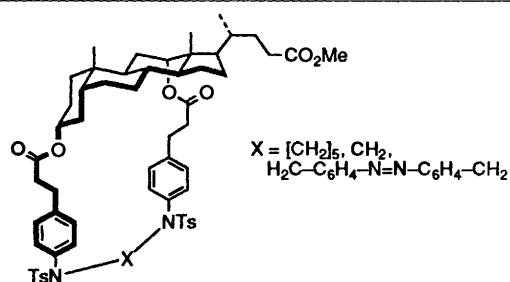
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Hiroshi Suginome, Takahiko Kondoh, Camelia Gogonea, Vishwakarma Singh, Hitoshi Gotō and Eiji Ōsawa



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Uday Maitra and S. Balasubramanian



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