

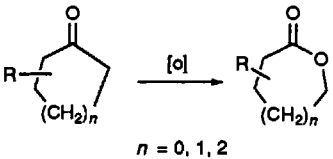
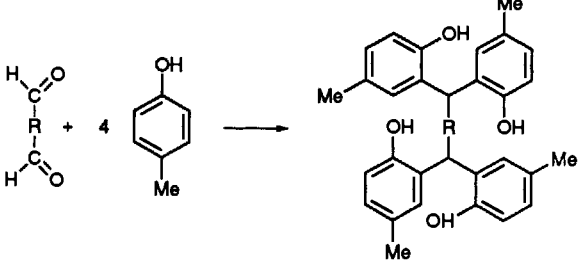
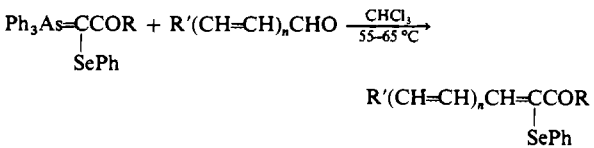
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**Perkin Transactions 1**


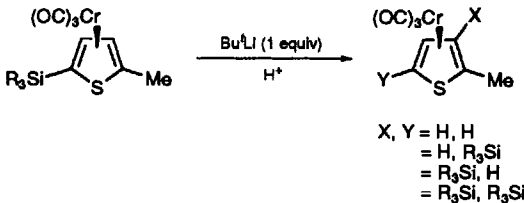
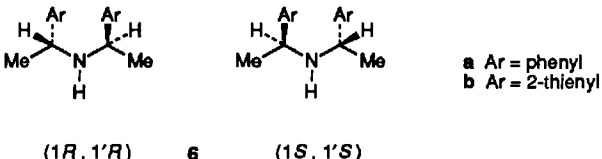
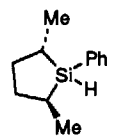
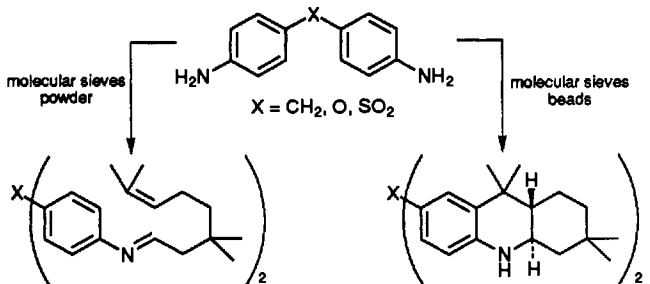
Organic and Bio-organic Chemistry

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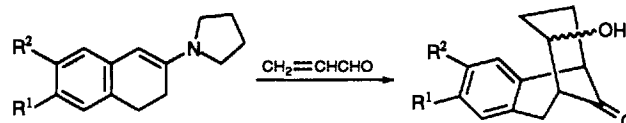
<p>89 <b>Lipase-catalysed Baeyer–Villiger reactions</b></p> <p>Stephanie C. Lemoult, Paul F. Richardson and Stanley M. Roberts</p>	 <p>The Baeyer–Villiger oxidation of some 2- and 3-substituted cycloalkanones using myristic acid and hydrogen peroxide is catalysed by <i>Candida antarctica</i> lipase</p>
<p>93 <b>A convenient and general synthesis of alkanediyl diphenols</b></p> <p>Cordula Grüttner, Volker Böhmer, Rosemarie Assmus and Sabine Scherf</p>	 <p>Alkanediyl diphenols are readily obtained in large quantities by the acid catalysed condensation of various aldehydes with an excess of the appropriate phenols</p>
<p>95 <b>Synthesis of acyl(phenylselanyl)methylidene-(triphenyl)-λ<sup>5</sup>-arsanes and their Wittig-type reactions</b></p> <p>Zhi-Zhen Huang, Xian Huang and Yao-Zeng Huang</p>	 <p>Acyl(phenylselanyl)methylidene(triphenyl)-λ<sup>5</sup>-arsanes have been synthesized and found to be sufficiently reactive to undergo Wittig-type reactions</p>

## Articles

<p>97 <b>Synthetic applications of arenetricarbonylchromium(0) complexes: the synthesis of polyfunctionalised thiophenes</b></p> <p>Michael S. Loft, Timothy J. Mowlem and David A. Widdowson</p>	 <p>The reaction shows <math>\text{Cr}(\text{CO})_3</math> reacting with a thiophene ring substituted with <math>\text{R}^1</math>, <math>\text{R}^2</math>, <math>\text{R}^3</math>, and <math>\text{R}^4</math> to form a <math>\text{Cr}(\text{CO})_3</math> complex coordinated to the thiophene ring.</p>
<p>105 <b>Enhanced lability of <math>\alpha</math>-silyl groups in thiophenetricarbonylchromium(0) complexes</b></p> <p>Michael S. Loft, Timothy J. Mowlem, David A. Widdowson and David J. Williams</p>	 <p>The reaction shows a thiophene ring with a <math>\text{Cr}(\text{CO})_3</math> group and an <math>\text{R}_3\text{Si}</math> group at the <math>\alpha</math> position reacting with <math>\text{Bu}^t\text{Li}</math> (1 equiv) and <math>\text{H}^+</math> to form a thiophene ring with a <math>\text{Cr}(\text{CO})_3</math> group, an <math>\text{X}</math> group, and a <math>\text{Me}</math> group at the <math>\alpha</math> position.</p> <p><math>\text{X}, \text{Y} = \text{H}, \text{H}</math>  <math>= \text{H}, \text{R}_3\text{Si}</math>  <math>= \text{R}_3\text{Si}, \text{H}</math>  <math>= \text{R}_3\text{Si}, \text{R}_3\text{Si}</math></p>
<p>111 <b>Asymmetric synthesis of (1<i>R</i>,1'<i>R</i>)- and (1<i>S</i>,1'<i>S</i>)-bis(1-arylethyl)amines by way of a diastereoselective addition to chiral imines and oxazolidines with organometallic reagents</b></p> <p>Kimio Higashiyama, Hiroaki Inoue, Takayasu Yamauchi and Hiroshi Takahashi</p>	 <p>The structures show two diastereomers of bis(1-arylethyl)amines: (1<i>R</i>,1'<i>R</i>) and (1<i>S</i>,1'<i>S</i>).</p> <p><math>\text{a Ar} = \text{phenyl}</math>  <math>\text{b Ar} = 2\text{-thienyl}</math></p> <p>(1<i>R</i>,1'<i>R</i>)     <b>6</b>     (1<i>S</i>,1'<i>S</i>)</p> <p>A synthesis of the title compound is described <i>via</i> the diastereoselective reaction of the chiral imines and oxazolidines with Grignard reagent</p>
<p>117 <b>Optical resolution and absolute stereochemistry of <i>trans</i>-2,5-dimethyl-1-phenyl-1-silacyclopentane</b></p> <p>Hai-Shan Dang, Brian P. Roberts and Derek A. Tocher</p>	 <p>The structure shows a five-membered ring with a silicon atom at position 1, a phenyl group at position 1, and methyl groups at positions 2 and 5.</p> <p><math>[\alpha]_D^{22} + 27.8</math> (<i>c</i> 2.16, cyclohexane)  <math>&gt;98\%</math> enantiomeric excess</p> <p>(2<i>S</i>,5<i>S</i>)-(+)-Dimethyl-1-phenyl-1-silacyclopentane has been obtained by resolution <i>via</i> the monosilyl ether derived from (2<i>S</i>)-<math>\text{Ph}_2\text{C}(\text{OH})\text{CH}(\text{Ph})\text{OH}</math></p>
<p>125 <b>Effect of molecular sieves on the formation and acid-catalysed mono- and bis-cyclization of <i>N</i>-arylimines: easy entry to polycyclic ring systems by a novel cascade reaction</b></p> <p>Oliver Temme and Sabine Laschat</p>	 <p>The reaction shows the formation of an <i>N</i>-arylimine from an <i>N</i>-arylimine precursor and an aldehyde, followed by acid-catalysed mono- and bis-cyclization to form polycyclic ring systems. The reaction is influenced by molecular sieves powder and molecular sieves beads.</p> <p><math>\text{X} = \text{CH}_2, \text{O}, \text{SO}_2</math></p>

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Improved synthesis of 11-amino-5,9-methanobenzo[8]annulenes

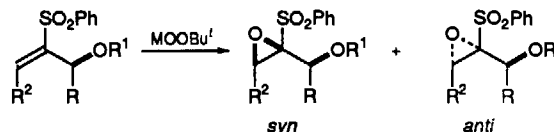
Iain M. Gilbert, (the late) Colin L. Hewett,  
Duncan R. Rae, James Redpath, (the late)  
David S. Savage and Thomas Sleigh



An improved synthesis of the bicyclic keto alcohols, precursors of the amino derivatives, is described

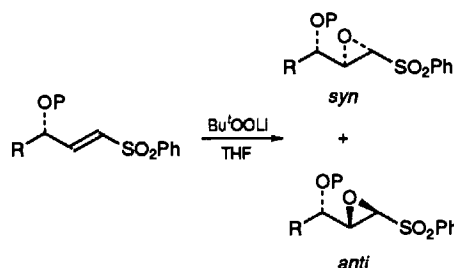
141 **Stereocontrol in the nucleophilic epoxidation of**  
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William Clegg and Andrew McCamley



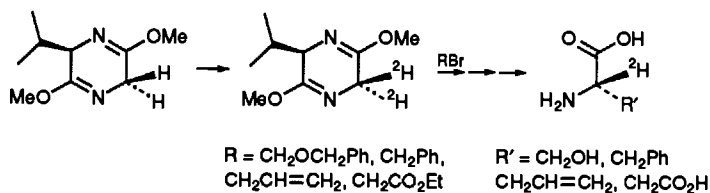
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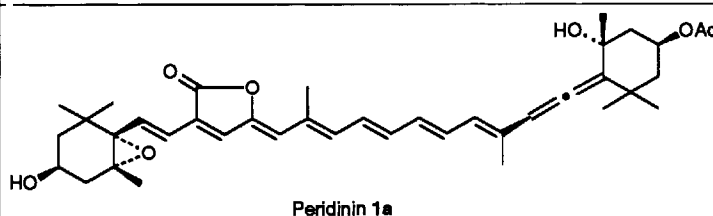
Janet E. Rose, Paul D. Leeson and  
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167 **Carotenoids and related polyenes. Part 2.**  
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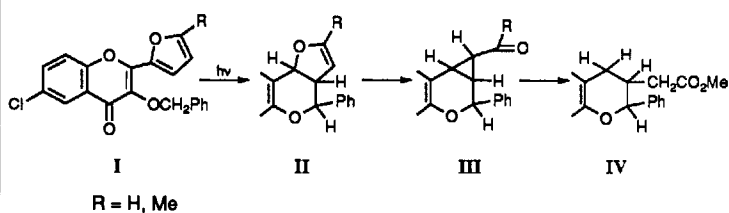
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**M. Noguchi, T. Kobayashi, K. Ikuno and A. Kakehi**

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**H. Hagiwara, K. Inome and H. Uda**

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