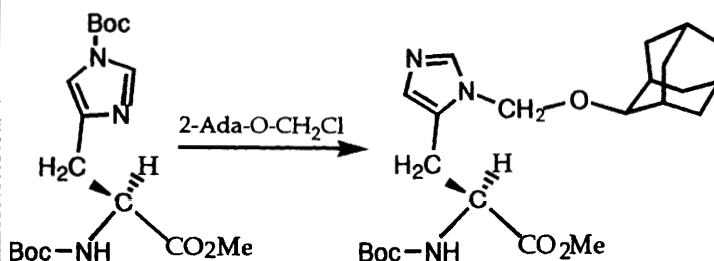


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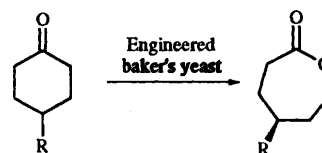
- 753 Synthesis of *N*^ε-2-adamantyl-oxymethylhistidine, His(*N*^ε-2-Adom), and its evaluation for peptide synthesis

Yoshio Okada, Jidong Wang, Takeshi Yamamoto and Yu Mu



- 755 'Designer yeast': a new reagent for enantioselective Baeyer-Villiger oxidations

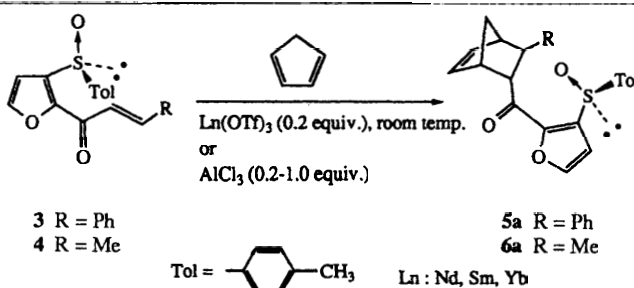
Jon D. Stewart, Kieth W. Reed and Margaret M. Kayser



A reagent based on genetically engineered baker's yeast performs enantioselective Baeyer-Villiger oxidations

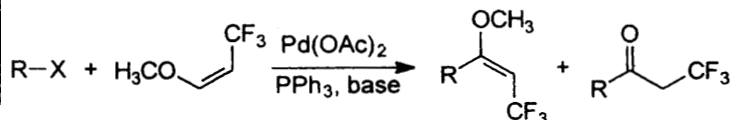
- 759 A highly asymmetric, Lewis acid-catalysed Diels-Alder reaction using optically active 2-(3-tolyl-*p*-sulfinyl)furyl α,β -unsaturated ketones as a dienophile

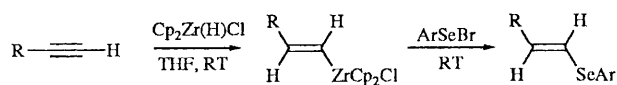
Yoshitsugu Arai, Tsutomu Masuda, Yukio Masaki and Motoo Shiro



- 763 Palladium-catalysed arylation and alkenylation of *cis*-3,3,3-trifluoroprop-1-enyl methyl ether. A novel entry into trifluoromethylated compounds

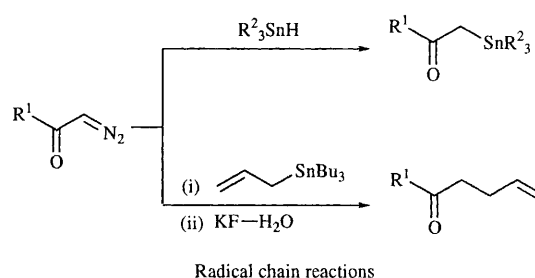
Guo-qiang Shi, Xian-hai Huang and Feng Hong



767 Stereoselective synthesis of (*E*)-vinylic selenides via hydrozirconation of alk-1-ynes

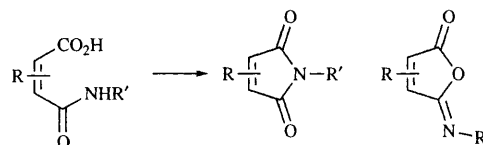
Xian Huang and Liu-Sheng Zhu

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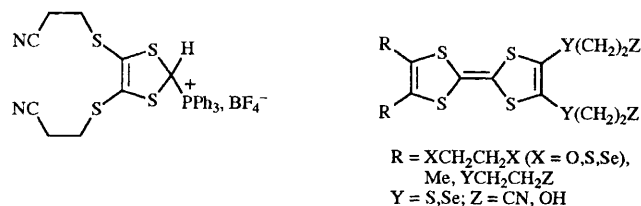
769 Radical addition to carbenoids. Chain reactions of α -diazo carbonyl compounds with triorganotin hydrides, tris(trimethylsilyl)silane and allyltributylstannane

Hai-Shan Dang and Brian P. Roberts

777 Product diversity in cyclisations of maleamic acids: the imide-isoimide dichotomy

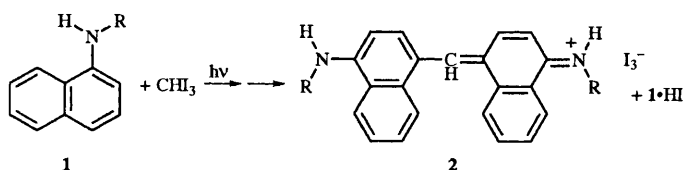


John E. T. Corrie, Madeleine H. Moore and Giles D. Wilson

Reagent: i, Ac₂O-DMA-cobalt naphthenate783 Preparation and chemistry of new unsymmetrically substituted tetrachalcogenofulvalenes bearing CN(CH₂)₂X and HO(CH₂)₂X groups (X = S or Se)

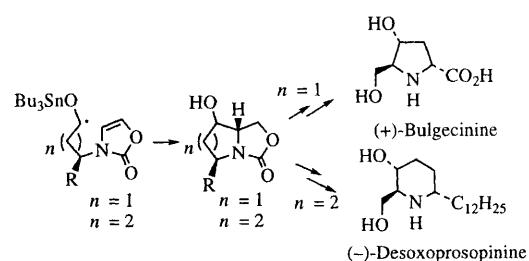
Laurent Binet, Jean Marc Fabre, Claude Montginoul, Klaus Baek Simonsen and Jan Becher

789 Photochemical reactions of 1-naphthylamines and haloforms: formation of bis(4-amino-1-naphthyl)methylum salts with remarkably long-wave electronic absorption

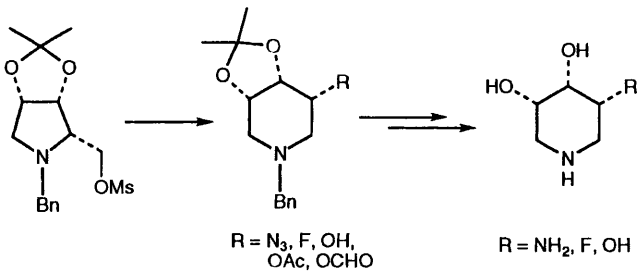
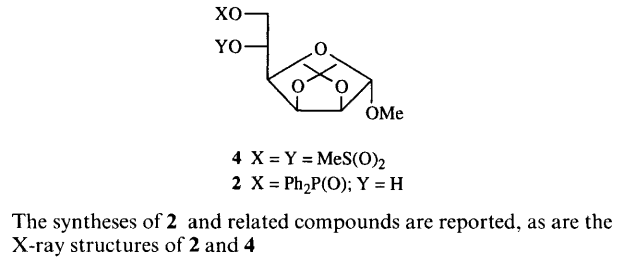
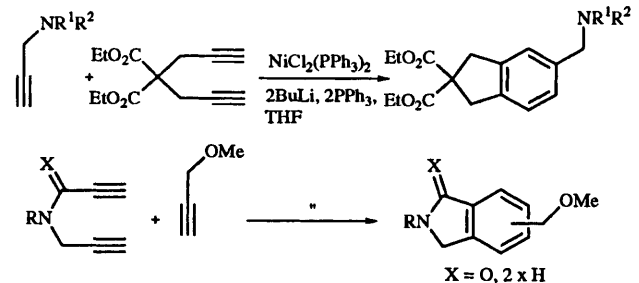
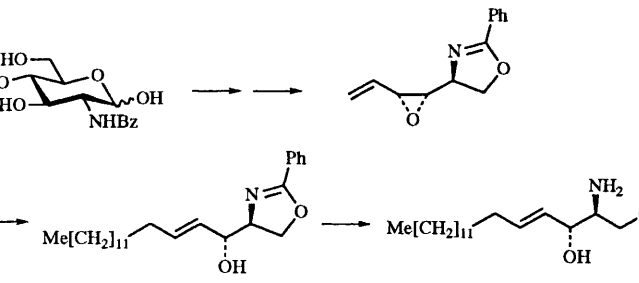
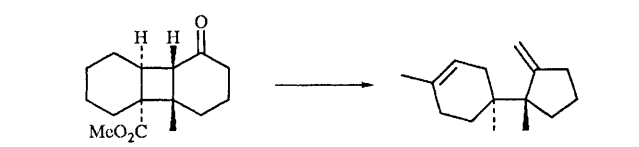
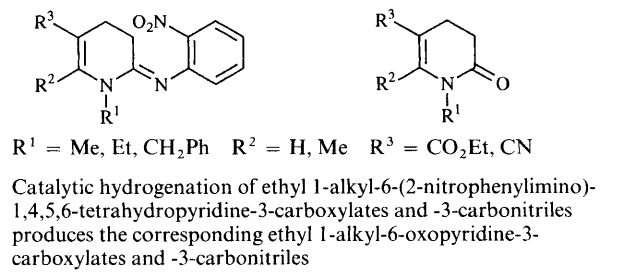


Koko Maeda, Yumiko Horikoshi, Mariko Hayashi, Yukie Mori and Hajime Nagano

793 Diastereoselective synthesis of 2,5-disubstituted 3-hydroxypyrrolidine and 2,6-disubstituted 3-hydroxypiperidine derivatives by radical cyclisation; synthesis of (+)-bulgecinine and (-)-desoxoprosopinine

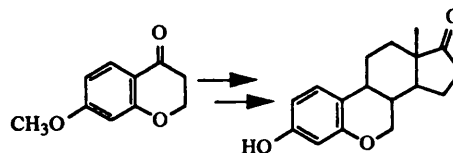


Yoko Yuasa, Jun Ando and Shiroshi Shibuya

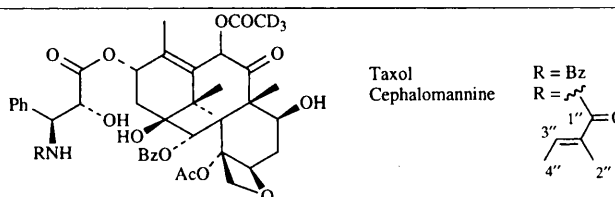
<p>803 Preparation of optically active 3-substituted piperidines via ring expansion: synthesis of 4-amino- and 4-fluoro-1,4,5-trideoxy-1,5-imino-D-ribitol and 1,5-dideoxy-1,5-imino-D-ribitol</p>	 <p>R = N₃, F, OH, OAc, OCHO R = NH₂, F, OH</p>
<p>809 Some diphenylphosphorus(v) group monosaccharide compounds derived from methyl 2,3-O-isopropylidene-α-D-mannofuranoside</p>	 <p>4 X = Y = MeS(O)₂ 2 X = Ph₂P(O); Y = H</p> <p>The syntheses of 2 and related compounds are reported, as are the X-ray structures of 2 and 4</p>
<p>815 Co-cyclizations of nitrogen-containing acetylenes induced by a nickel triphenylphosphine complex to give aminoindane, isoindoline and isoindolinone derivatives</p>	 <p>X = O, 2 x H</p>
<p>823 Efficient stereocontrolled synthesis of D-erythro-sphingosine from N-benzoyl-D-glucosamine</p>	
<p>829 Formal total synthesis of trichodiene via skeletal rearrangement of the regioselective photochemical [2 + 2] cycloadducts from cyclohexene derivatives</p>	
<p>837 ν-Triazolines. Part 36. New synthesis of ethyl 1-alkyl-1,4,5,6-tetrahydro-6-oxopyridine-3-carboxylates and 1-alkyl-1,4,5,6-tetrahydro-6-oxopyridine-3-carbonitriles through reduction of N-2-nitroarylamidines</p>	 <p>R¹ = Me, Et, CH₂Ph R² = H, Me R³ = CO₂Et, CN</p> <p>Catalytic hydrogenation of ethyl 1-alkyl-6-(2-nitrophenylimino)-1,4,5,6-tetrahydropyridine-3-carboxylates and -3-carbonitriles produces the corresponding ethyl 1-alkyl-6-oxopyridine-3-carboxylates and -3-carbonitriles</p>

841 **Total synthesis of 3-hydroxy-6-oxaestra-1,3,5(10)-trien-17-one**

Zhisong Cao and Joachim G. Liehr

845 **Taxol and taxane formation in plant cell culture**

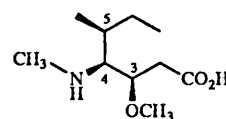
Peter Heinstein, Jin-yun Zhou, Mansi Wang, Yeuk-Chuen Liu, Xiao-ya Chen, Dian Chen, Steven H. Hoke, II, R. Graham Cooks and Ching-jer Chang



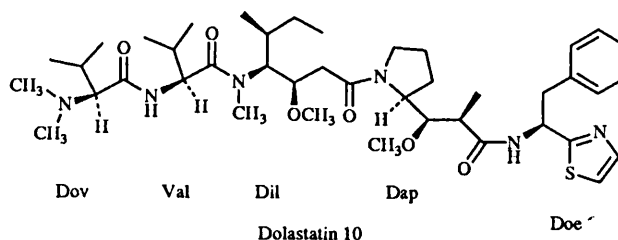
The production of taxol, cephalomannine and baccatin III from a suspension cell culture of *Taxus brevifolia* has been determined with tandem mass spectrometry using [$^2\text{H}_3$]-labelled internal standards

853 **Dolastatins 23: stereospecific synthesis of dolaisoleuine**

George R. Pettit, Douglas D. Burkett and Michael D. Williams

**2 Dolaisoleuine**859 **Dolastatins 24. Synthesis of (-)-dolastatin 10. X-Ray molecular structure of *N,N*-dimethylvalyl-valyl-dolaisoleuine *tert*-butyl ester**

George R. Pettit, Jayaram K. Srirangam, Sheo Bux Singh, Michael D. Williams, Delbert L. Herald, József Barkóczy, Darko Kantoci and Fiona Hogan

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Synthesis and evaluation of photolabile sulfonamides as potential reagents for rapid photorelease of neuroactive amines **J.E.T. Corrie and G. Papageorgiou**

Total synthesis of the diepoxycyclohexanone antibiotic aranorosin and novel synthetic analogues **A. McKillop, L. McLaren, R.J.K. Taylor, R.J. Watson and N. Lewis**

New insight into the pyruvate decarboxylase catalysed formation of lactaldehyde from H–D exchange experiments: a watertight active site **M. Lobell and D.H.G. Crout**

Cathodic carbonylation. Synthesis of aliphatic aldehydes using electroreductively generated iron–carbonyl anion **K. Yoshida and H. Kuwata**

Comparison of microbiologically and enzymatically mediated Baeyer–Villiger oxidations: synthesis of optically active caprolactones **R. Furstoss, V. Alphand, S. Pedragosa-Moreau, S.M. Roberts and A.J. Willetts**

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Parasite glycoconjugates. Part 5. Blockwise approach to oligo(glycosyl phosphates): the chemical synthesis of a terminal tri(glycobiosyl phosphate) fragment of *Leishmania donovani* antigenic lipophosphoglycan **A.V. Nikolaev, T.J. Rutherford, M.A.J. Ferguson and J.S. Brimacombe**

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