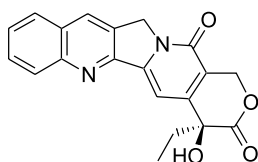


Graphical abstracts

Towards new anticancer drugs: a decade of advances in synthesis of camptothecins and related alkaloids

Wu Du

Department of Chemistry, The Scripps Research Institute, BCC 483, 10550 North Torrey Pines Road, San Diego, CA 92037 USA



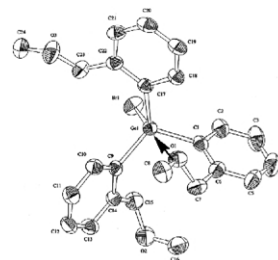
Camptothecin

Tetrahedron 59 (2003) 8649

Synthesis, solid-state and solution structures of tris[(2-methoxymethyl)phenyl]germanes with a substituent on germanium

Yusuke Sugiyama, Taku Matsumoto, Hiroshi Yamamoto, Miki Nishikawa, Masashi Kinoshita, Tohru Takei, Wasuke Mori and Yoshito Takeuchi*

Department of Chemistry, Faculty of Science, Kanagawa University, 2946 Tsuchiya, Hiratsukashi 259-1293, Japan

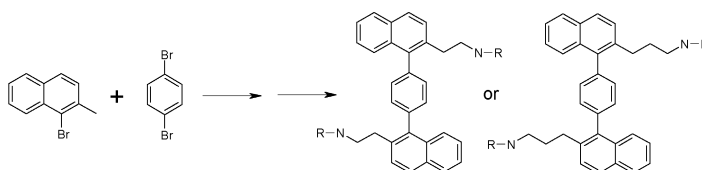


Tetrahedron 59 (2003) 8689

A novel class of allosteric modulators of the muscarinic M₂ acetylcholine receptor: terphenyl derivatives

Jürgen Teichgräber and Ulrike Holzgrabe*

Institute of Pharmacy and Food Chemistry, University of Würzburg, Am Hubland, 97074 Würzburg, Germany



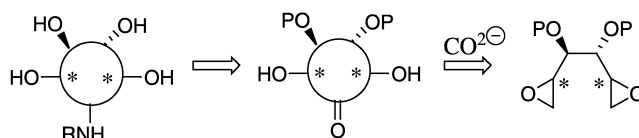
Tetrahedron 59 (2003) 8697

Synthesis and glycosidase inhibitory activity of aminocyclitols with a C6- or a C7-ring

Christine Gravier-Pelletier,^a William Maton,^a Thierry Dintinger,^b Charles Tellier^b and Yves Le Merrer^{a,*}

^aLaboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques, Université René Descartes, UMR 8601 CNRS, 45 rue des Saints-Pères, 75270 Paris Cedex 06, France

^bFaculté des Sciences et des Techniques, Unité de Recherches en Biocatalyse, FRE 2230 CNRS, 2 rue de la Houssinière, BP 92208, 44322 Nantes, France



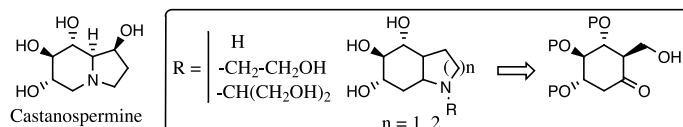
Tetrahedron 59 (2003) 8705

Synthesis and glycosidase inhibitory activity of enantiopure polyhydroxylated octahydroindoles and decahydroquinolines, analogs to castanospermine

Tetrahedron 59 (2003) 8721

Christine Gravier-Pelletier, William Maton, Gildas Bertho and Yves Le Merrer*

Université René Descartes, Laboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques, UMR 8601 CNRS, 45 rue des Saints-Pères, 75270 Paris Cedex 06, France



Directed 1,3-dipolar cycloadditions of ylidene piperazine-2,5-diones

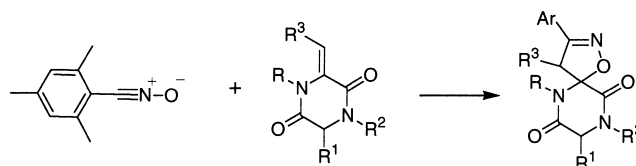
Tetrahedron 59 (2003) 8731

Christina L. L. Chai,^{a,*} Alison J. Edwards,^b Bronwyn A. Wilkes^a and Ruth C. J. Woodgate^a

^a*Department of Chemistry, The Faculties, Australian National University, Canberra ACT 0200, Australia*

^b*Research School of Chemistry, Australian National University, Canberra ACT 0200, Australia*

Ylidene piperazinediones undergo regio- and stereoselective 1,3-dipolar cycloaddition reactions with mesitonitrile oxide.



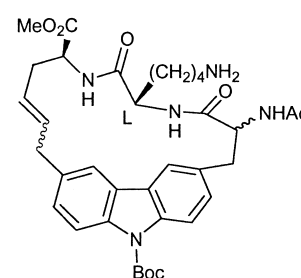
Synthesis of carbazole-linked cyclic and acyclic peptoids with antibacterial activity

Tetrahedron 59 (2003) 8741

John B. Bremner,^{a,*} Jonathan A. Coates,^b Paul A. Keller,^{a,*} Stephen G. Pyne^{a,*} and Helen M. Witchard^a

^a*Department of Chemistry, University of Wollongong, Northfields Avenue, Wollongong, NSW 2522, Australia*

^b*AMRAD Operations Pty Ltd, Burnley, Vic. 3121, Australia*



On the origin of quasi-racemic aplysinopsin cycloadducts, (bis)indole alkaloids isolated from scleractinian corals of the family Dendrophylliidae. Involvement of enantiodeficient Diels–Alders or asymmetric induction in artifact processes involving adventitious catalysts?

Tetrahedron 59 (2003) 8757

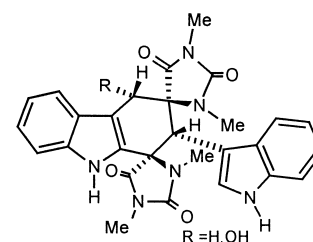
Ines Mancini,^{a,*} Graziano Guella,^a Helmut Zibrowius^b and Francesco Pietra^c

^a*Laboratorio di Chimica Bioorganica, Università di Trento, I-38050 Povo-Trento, Italy*

^b*Centre d'Océanologie de Marseille, Station Marine d'Endoume, F-13007 Marseille, France*

^c*via della Fratta, 9 I-55100 Lucca, Italy*

Cycloaplysinopsin A and its hydroxyl analogue, cycloaplysinopsin B, were characterized and their formation discussed in terms of Diels–Alder cycloaddition.



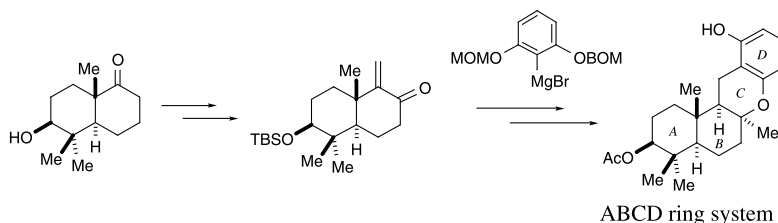
Synthetic studies of kampanols, novel p21^{ras} farnesyl-transferase inhibitors: an efficient synthesis of the tetracyclic ABCD ring system of kampanols

Tetrahedron 59 (2003) 8763

Katsuhiko Iwasaki,^a Mari Nakatani,^b Munenori Inoue^b and Tadashi Katoh^{a,b,*}

^aDepartment of Electronic Chemistry,
Tokyo Institute of Technology, Nagatsuta,
Yokohama 226-8502, Japan

^bSagami Chemical Research Center,
2743-1 Hayakawa, Ayase, Kanagawa 252-1193, Japan



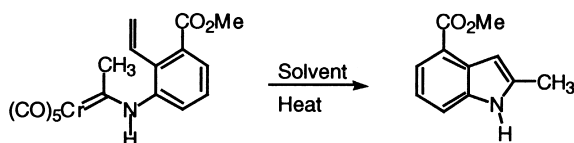
Intramolecular cyclization reactions of unsaturated amino Fischer chromium carbenes forming indoles and quinolines

Tetrahedron 59 (2003) 8775

Björn C. G. Söderberg,^{a,b,*} James A. Shriver,^{a,b} Seth H. Cooper,^{a,b} Timothy L. Shroul,^{a,b} E. Scott Helton,^{a,b} Lucinda R. Austin,^{a,b} Herman H. Odens,^{a,b} Brian R. Hearn,^{a,b} Paula C. Jones,^{a,b} Tiara N. Kouadio,^{a,b} Tan H. Ngi,^{a,b} Rachel Baswell,^{a,b} H. John Caprara,^{a,b} Mark D. Meritt^{a,b} and Than T. Mai^{a,b}

^aDepartment of Chemistry, West Virginia University, PO Box 6045, Morgantown, WV 26506-6045, USA

^bDepartment of Chemistry, University of South Alabama, Mobile, AL 36688, USA



Structure and biosynthetic implication of (S)-NHAB, a novel shunt product, from a disruptant of the actVI-ORFA gene for actinorhodin biosynthesis in *Streptomyces coelicolor* A3(2)

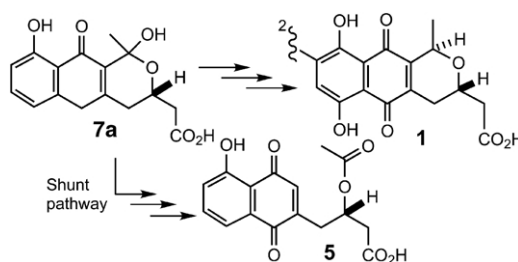
Tetrahedron 59 (2003) 8793

Makoto Ozawa,^a Takaaki Taguchi,^a Takayuki Itoh,^a Yutaka Ebizuka,^a Kevin I. Booker-Milburn,^b G. Richard Stephenson^c and Koji Ichinose^{a,*}

^aGraduate School of Pharmaceutical Sciences, The University of Tokyo,
Hongo, Bunkyo-ku, Tokyo 113-0033, Japan

^bSchool of Chemistry, University of Bristol, Cantock's Close,
Bristol BS8 1TS, UK

^cWolfson Materials and Catalysis Centre, School of Chemical Sciences
and Pharmacy, University of East Anglia, Norwich NR4 7TJ, UK



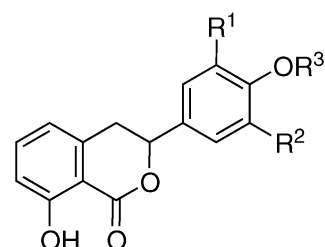
Efficient syntheses of (±)-hydrangenol, (±)-phyllodulcin and (±)-macrophyllol

Tetrahedron 59 (2003) 8799

Mehmet Günes^{a,*} and Andreas Speicher^{b,*}

^aTUBITAK-MRC Materials and Chemical Technologies Research Institute, P.O. Box 21, Gebze 41470, Kocaeli,
Turkey

^bFachrichtung Organische Chemie, Saarland University, P.O. Box 151150, D-66041 Saarbrücken, Germany



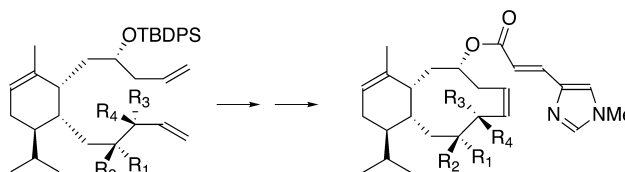
Synthesis of novel simplified sarcodictyin/eleutherobin analogs with potent microtubule-stabilizing activity, using ring closing metathesis as the key-step

Tetrahedron 59 (2003) 8803

Raphael Beumer,^a Pau Bayón,^a Piergiuliano Bugada,^a Sylvie Ducki,^b Nicola Mongelli,^b Federico Riccardi Sirtori,^b Joachim Telser^a and Cesare Gennari^{a,*}

^aDipartimento di Chimica Organica e Industriale, Centro di Eccellenza C.I.S.I., Istituto CNR di Scienze e Tecnologie Molecolari, Università di Milano, via Venezian 21, I-20133 Milan, Italy

^bPharmacia, viale Pasteur 10, I-20014 Nerviano, Italy



A two step synthesis of 2-oxo-2-vinyl 1,3,2-dioxaphospholanes and -dioxaphosphorinanes

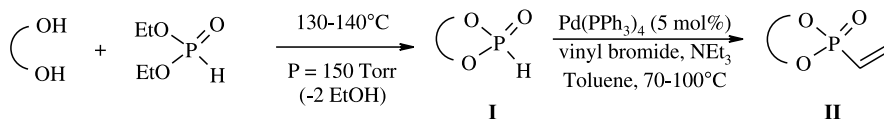
Tetrahedron 59 (2003) 8821

Michel Maffei^{a,*} and Gérard Buono^b

^aLaboratoire des Organo-Phosphorés (UMR 6009 du C.N.R.S.), B.P. 552, Faculté de Saint Jérôme, Avenue Escadrille Normandie Niémen, 13397 Marseille Cedex 20, France

^bLaboratoire Synthèse Asymétrique (UMR 6516 du CNRS), Faculté de Saint Jérôme, Avenue Escadrille Normandie-Niémen, 13397 Marseille Cedex 20, France

The title compounds **II** are prepared via a two step procedure which entails a transesterification between diethyl phosphite and a diol to yield **I** followed by a palladium-catalyzed with vinyl bromide.

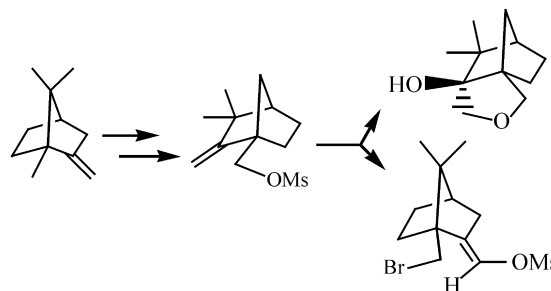


Preparation and application of (+)-(3,3-dimethyl-2-methylenenorbornan-1-yl)methyl methanesulfonate: a new and versatile chiral fenchone analogue

Tetrahedron 59 (2003) 8827

Te-Fang Yang,^{*} Hou-Hsun Chao, Yi-Hsuan Lu and Cheng-Jung Tsai

Department of Applied Chemistry, Chaoyang University of Technology, Wufeng, 413 Taichung, Taiwan, ROC



Synthesis and reactivity of Z and E functionalized allylic fluorides

Tetrahedron 59 (2003) 8833

Michaël Prakesch, Danielle Grée and René Grée^{*}

ENSCR, Laboratoire de Synthèses et Activations de Biomolécules, CNRS UMR 6052, Avenue du Général Leclerc, 35700 Rennes, France

