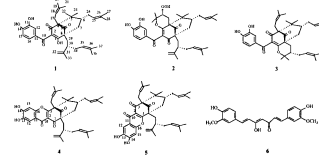


Chemical studies on antioxidant mechanism of garcinol: analysis of radical reaction products of garcinol with peroxy radicals and their antitumor activities

Tetrahedron 58 (2002) 10095

Shengmin Sang,^a Chiung-Ho Liao,^b Min-Hsiung Pan,^b Robert T. Rosen,^a Shoei-Yn Lin-Shiau,^b Jen-Kun Lin^b and Chi-Tang Ho^{b,*}^aDepartment of Food Science and Center for Advanced Food Technology, Rutgers University, 65 Dudley Road, New Brunswick, NJ 08901-8520, USA^bInstitute of Biochemistry and Toxicology, College of Medicine, National Taiwan University, 1 Section 1, Jen-ai Road, Taipei, Taiwan, ROC

Four major reaction products (**2–5**) were isolated and identified from the oxidation reaction between garcinol (**1**) and peroxy radicals generated by thermolysis of the azo initiator azo-bis-isobutyryl-nitrile (AIBN). Their structures were determined on the basis of detailed high field 1D and 2D spectral analysis. The identification of these products provides the first unambiguous proof that the double bond of the isopentenyl group is a principal site of the antioxidant reaction of **1**. The induction of apoptosis in human leukemia HL-60 cells, the inhibition of NO generation, and the inhibition of LPS-induced iNOS gene expression by Western blot analysis by **1** and its four oxidation products (**2–5**) were investigated.



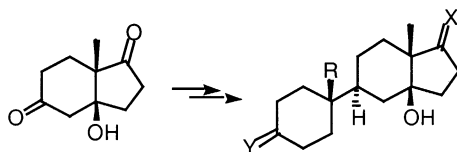
Synthesis of B,B-dinor-B-secosteroids as potential cardenolide analogues

Tetrahedron 58 (2002) 10103

Luis G. Sevillano, Esther Caballero, Fernando Tomé, Manuel Medarde* and Arturo San Feliciano

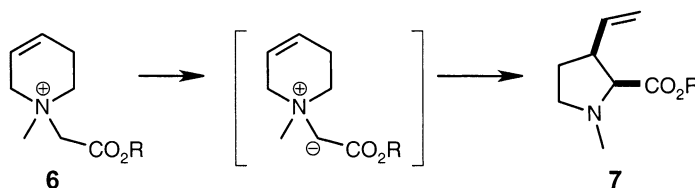
Laboratorio de Química Orgánica y Farmacéutica, Facultad de Farmacia, Campus Miguel de Unamuno, E-37007 Salamanca, Spain

A straight forward synthesis of title compounds has been carried out starting from the Hajos–Parrish diketone.



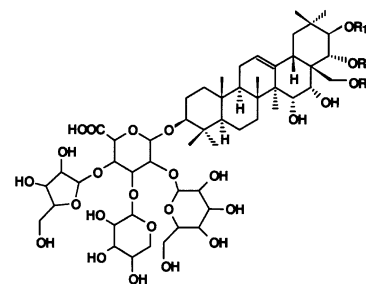
[2,3]-Sigmatropic rearrangements of didehydropiperidinium ylids

Tetrahedron 58 (2002) 10113

J. B. Sweeney,^{a,*} Ali Tavassoli,^a Neil B. Carter^a and Jerome F. Hayes^b^aDepartment of Chemistry, University of Reading, Whiteknights, Reading RG6 6AD, UK^bSmithKline Beecham Pharmaceuticals, Old Powder Mills, Leigh, Tonbridge TN11 9AN, UK

Isolation and structure elucidation of four new triterpenoid estersaponins from fruits of *Pittosporum tobira* AIT.

Tetrahedron 58 (2002) 10127

Ilaria D'Acquarica,^a Maria Cristina Di Giovanni,^a Francesco Gasparri,^{a,*} Domenico Misiti,^a Claudio D'Arrigo,^b Nicolina Fagnano,^b Decimo Guarnieri,^b Giovanni Iacono,^b Giuseppe Bifulco^c and Raffaele Riccio^c^aDipartimento di Studi di Chimica e Tecnologia delle Sostanze Biologicamente Attive, Università "La Sapienza", P.le Aldo Moro 5, 00185 Roma, Italy^bIDI Farmaceutici S.p.A., Via dei Castelli Romani 83/85, 00040 Pomezia, Roma, Italy^cDipartimento di Scienze Farmaceutiche, Università di Salerno, Via Ponte don Melillo, 84084 Fisciano, Salerno, ItalyIsolation and characterization of four new acylated triterpenoid estersaponins with anticancer activity from fruits of *Pittosporum tobira* AIT.

Synthesis of some diazino-fused tricyclic systems via Suzuki cross-coupling and regioselective nitrene insertion reactions

Tetrahedron 58 (2002) 10137

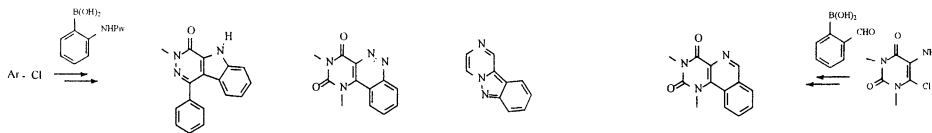
Pál Tapolcsányi,^a Gábor Krajsovszky,^a Rómeó Andó,^a Péter Lipcsey,^a Gyula Horváth,^b Péter Mátyus,^{a,*} Zsuzsanna Riedl,^c György Hajós,^c Bert U. W. Maes^d and Guy L. F. Lemièr^d

^aDepartment of Organic Chemistry, Semmelweis University, Högyes E. u. 7., Budapest 1092, Hungary

^bIVAX Institute for Drug Research, Ltd., H-1045 Budapest, Bertini u. 47-49, Hungary

^cChemical Research Center, Institute of Chemistry, Hungarian Academy of Sciences, P.O. Box 17, H-1525 Budapest, Hungary

^dDepartment of Chemistry, University of Antwerp (RUCA), Groenenborgerlaan 171, B-2020 Antwerpen, Belgium

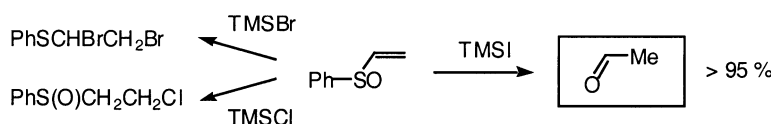


An investigation of the behaviour of α,β -unsaturated sulfoxides in the presence of trimethylsilyl iodide

Tetrahedron 58 (2002) 10145

Maria C. Aversa,^{*} Anna Barattucci,^{*} Paola Bonaccorsi and Placido Giannetto

Dipartimento di Chimica organica e biologica, Università degli Studi di Messina, Salita Sperone 31 (vill. S. Agata), 98166 Messina, Italy



Conformational profile, energy barriers and optical properties of quinquethiophene-*S,S*-dioxides

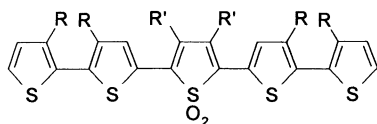
Tetrahedron 58 (2002) 10151

Alessandro Bongini,^{a,*} Giovanna Barbarella,^b Laura Favaretto,^b Giovanna Sotgiu,^b Massimo Zambianchi^b and Daniele Casarini^c

^aDipartimento Chimico G. Ciamician, Università di Bologna, Via Selmi 2, 40126 Bologna, Italy

^bCNR-ISOF, Via Gobetti 101, 40129 Bologna, Italy

^cDipartimento Chimico, Università della Basilicata, Via N. Sauro 85, 85100 Potenza, Italy



R = R' = Methyl; R = Methyl, R' = n-Hexyl;
R = Cyclohexyl, R' = n-Hexyl; R = R' = Neopentyl

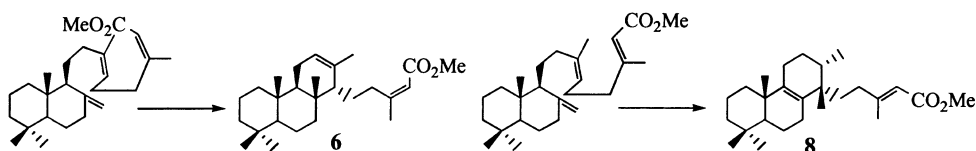
Studies towards the synthesis of cheilanthane sesterterpenoids: superacidic cyclisation of methyl 13*Z*,17*Z*- and 13*Z*,17*E*-bicyclogeranyl farnesoates

Tetrahedron 58 (2002) 10159

Nicon Ungur,^{a,*} Veaceslav Kulcički,^a Margherita Gavagnin,^b Francesco Castelluccio,^b Pavel F. Vlad^a and Guido Cimino^b

^aInstitutul de Chimie al Academiei de Științe a Republicii Moldova, str. Academiei 3, MD 2028 Chișinău, Moldova

^bIstituto di Chimica Biomolecolare CNR, Via Campi Flegrei 34, Fabbr. 70, I-80078 Pozzuoli (Na), Italy



Sesterterpenoids **6** and **8** were obtained in one step.

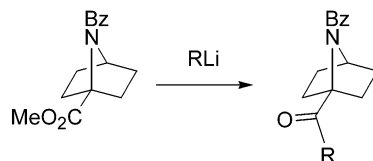
Addition of organolithium reagents to Ahc methyl ester.

Tetrahedron 58 (2002) 10167

An approach to new α -amino ketones

Alberto Avenoza,* Jesús H. Busto and Jesús M. Peregrina*

Departamento de Química, Grupo de Síntesis Química de La Rioja, Universidad de La Rioja, U.A.-C.S.I.C., Madre de Dios, 51, E26006 Logroño, Spain



Syntheses of dopaminergic 1-cyclohexylmethyl-7,8-dioxygenated tetrahydroisoquinolines by selective heterogeneous tandem hydrogenation

Tetrahedron 58 (2002) 10173

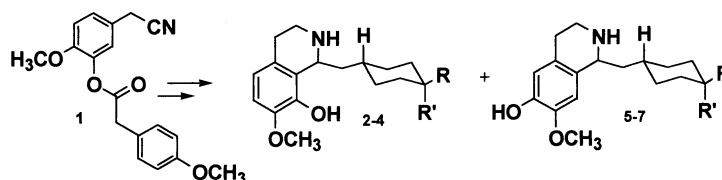
Inmaculada Andreu,^a Nuria Cabedo,^a Gregorio Torres,^b Abdeslam Chagraoui,^c M. Carmen Ramírez de Arellano,^d Salvador Gil,^d Almudena Bermejo,^a María Valpuesta,^b Philippe Protais^c and Diego Cortes^{a,*}

^aDepartamento de Farmacología, Facultad de Farmacia, Universidad de Valencia, 46100 Burjassot, Valencia, Spain

^bDepartamento de Química Orgánica, Facultad de Ciencias, Universidad de Málaga, 29071 Málaga, Spain

^cLaboratoire de Physiologie, Faculté de Médecine-Pharmacie, Université de Rouen, 76183 Rouen, France

^dDepartamento de Química Orgánica, Facultad de Química, Universidad de Valencia, 46100 Burjassot, Valencia, Spain

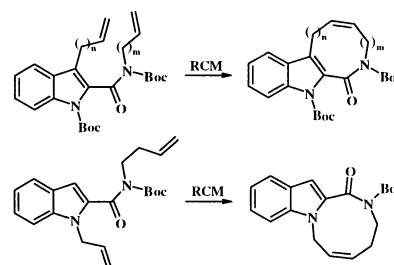


Ring closure metathesis of indole 2-carboxylic acid allylamide derivatives

Tetrahedron 58 (2002) 10181

Lidwine Chacun-Lefèvre, Valérie Bénéteau, Benoît Joseph and Jean-Yves Méroux*

Institut de Chimie Organique et Analytique, UMR-CNRS 6005, Université d'Orléans, B.P. 6759, 45067 Orléans cedex 2, France

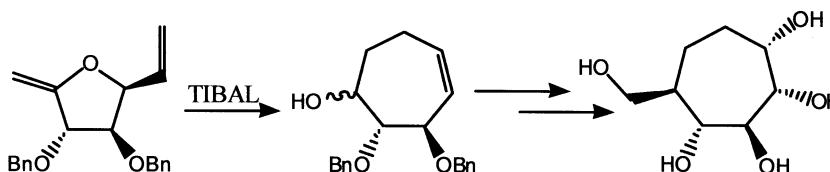


Cycloheptanic sugar mimetics, bridging the gap in the homologous series of carbocyclic analogues

Tetrahedron 58 (2002) 10189

Eugen Sisu, Matthieu Sollogoub, Jean-Maurice Mallet and Pierre Sinay*

Ecole Normale Supérieure, Département de Chimie, associé au CNRS, UMR 8642, 24 rue Lhomond, 75231 Paris Cedex 05, France

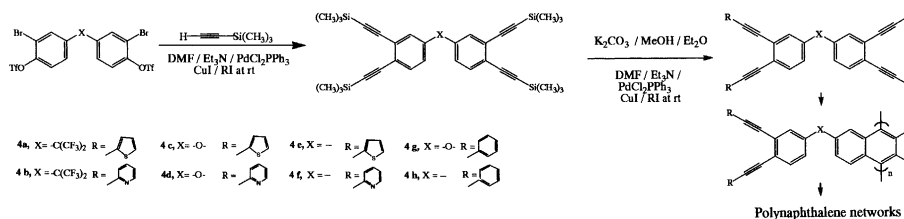


Synthesis and thermal cyclopolymerization of heterocycle containing bis-*ortho*-diynyl arenes

K. Prasanna U. Perera, Mariusz Krawiec and Dennis W. Smith Jr.*

Department of Chemistry, Clemson University, Clemson, SC 29634, USA

Tetrahedron 58 (2002) 10197



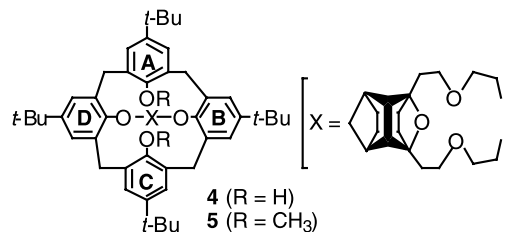
Synthesis and alkali metal picrate extraction studies of lower rim functionalized *p*-*tert*-butylcalix[4]arene crown ethers

Alan P. Marchand,^{a,*} Hyun-Soon Chong,^a T. Pavan Kumar,^a Zilin Huang,^a Sulejman Alihodzic,^a William H. Watson^{b,*} and Krzysztof Ejsmont^b

^aDepartment of Chemistry, University of North Texas, Denton, TX 76203-5070, USA

^bDepartment of Chemistry, Texas Christian University, Fort Worth, TX 76129-8860, USA

Tetrahedron 58 (2002) 10205



Efficient and versatile synthesis of mucin-like glycoprotein mimics

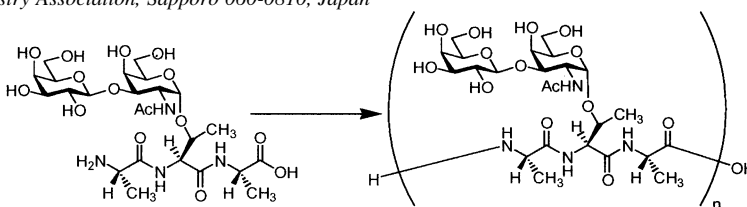
Yuki Tachibana,^a Naoki Matsubara,^a Fumio Nakajima,^b Tetsuro Tsuda,^b Sakae Tsuda,^c Kenji Monde^a and Shin-Ichiro Nishimura^{a,d,*}

^aLaboratory for Bio-Macromolecular Chemistry, Division of Biological Sciences, Graduate School of Science, Hokkaido University, Kita-ku, Sapporo 060-0810, Japan

^bSapporo Laboratory for Glycocluster Project, Japan Bioindustry Association, Sapporo 060-0810, Japan

^cStructural Biology Group, National Institute of Advanced Industrial Science and Technology (AIST), Sapporo 062-8517, Japan

^dGlycochemosynthesis Team, Research Center for Glycoscience, National Institute of Advanced Industrial Science and Technology (AIST), Sapporo 062-8517, Japan



Tetrahedron 58 (2002) 10213

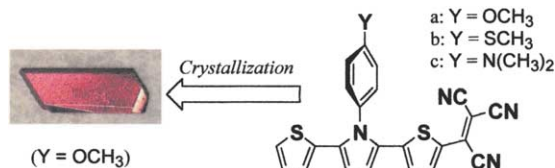
Novel organic crystals with red-violet metallic luster: 1-aryl-2-(2-thienyl)-5-[5-(tricyanoethenyl)-2-thienyl]pyrrole derivatives bearing a heteroatom combined methyl substituent

Rui Zhao,^a Motohiro Akazome,^b Shoji Matsumoto^b and Katsuyuki Ogura^{a,b,*}

^aGraduate School of Science and Technology, Chiba University, 1-33 Yayoicho, Inageku, Chiba 263-8522, Japan

^bDepartment of Materials Technology, Faculty of Engineering, Chiba University, 1-33 Yayoicho, Inageku, Chiba 263-8522, Japan

Tetrahedron 58 (2002) 10225



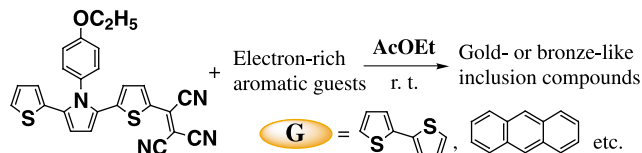
Supramolecular architecture of metal-lustrous inclusion crystals based on aromatic CH- π interaction: versatile inclusion of 1-(*p*-ethoxyphenyl)-2-(2-thienyl)-5-[5-(tricyanoethenyl)-2-thienyl]pyrrole host with various electron-rich aromatic guest molecules

Tetrahedron 58 (2002) 10233

Rui Zhao,^a Shoji Matsumoto,^b Motohiro Akazome^b and Katsuyuki Ogura^{a,b,*}

^aGraduate School of Science and Technology, Chiba University, 1-33 Yayoicho, Inageku, Chiba 263-8522, Japan

^bDepartment of Materials Technology, Faculty of Engineering, Chiba University, 1-33 Yayoicho, Inageku, Chiba 263-8522, Japan

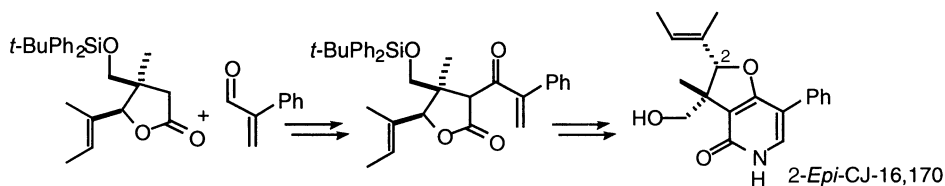


Studies related to furopyridinone antibiotics. Synthesis of 2-*epi*-CJ-16,170

Tetrahedron 58 (2002) 10243

Derrick L. J. Clive* and Xiaojun Huang

Department of Chemistry, University of Alberta, Edmonton, Alta., Canada T6G 2G2

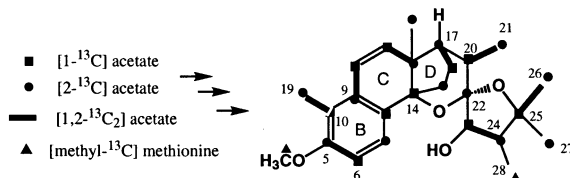


Biosynthetic studies on blazeispirane and protoblazeispirane derivatives from the cultured mycelia of the fungus *Agaricus blazei*

Tetrahedron 58 (2002) 10251

Masao Hirotsu,^{*} Kou Sai, Asami Kaneko, Yoshihisa Asada and Takafumi Yoshikawa

School of Pharmaceutical Sciences, Kitasato University, Minato-ku 9-1 Shirokane 5, Chome, Tokyo 108-8641, Japan

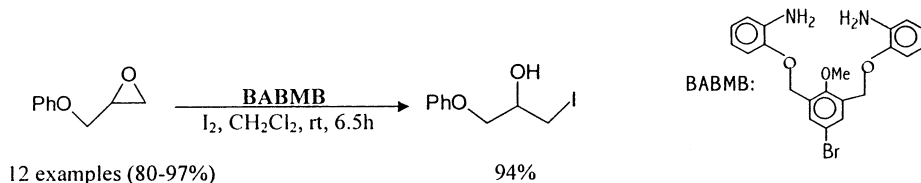


Cleavage of epoxides into halohydrins with elemental iodine and bromine in the presence of 2,6-bis[2-(*o*-aminophenoxy)-methyl]-4-bromo-1-methoxybenzene (BABMB) as catalyst

Tetrahedron 58 (2002) 10259

Khodabakhsh Niknam* and Taibeh Nasehi

Department of Chemistry, Faculty of Science, Persian Gulf University, Bushehr 75168, Iran



Aggregation of lariat ethers attached to a membrane anchoring unit

Tetrahedron 58 (2002) 10263

Natasha K. Djedovič,^a Riccardo Ferdani,^a Paul H. Schlesinger^b and George W. Gokel^{a,*}

^aProgram in Bioorganic Chemistry, Division of Bioorganic Chemistry, Department of Molecular Biology and Pharmacology, Washington University School of Medicine, 660 S. Euclid Ave., Campus Box 8103, St. Louis, MO 63110, USA

^bDepartment of Cell Biology and Physiology, Washington University School of Medicine, 660 S. Euclid Ave., St. Louis, MO 63110, USA

