Graphical abstracts

Synthesis of [2]rotaxanes by tritylative endcapping of in situ formed pseudorotaxanes having thiol or hydroxyl functionality on the axle termini

Tetrahedron 58 (2002) 6609

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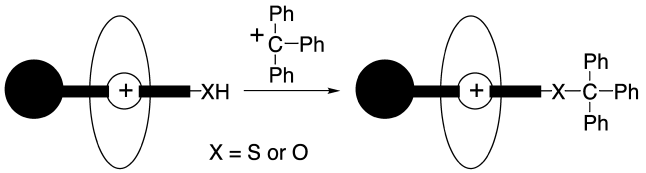
Tritylation of pseudorotaxane having a thiol or hydroxyl functionality at the axle end afforded the corresponding [2]rotaxane in high yield.



Total synthesis of (±)-brasiliquinone B

Tetrahedron 58 (2002) 6615

Mahesh L. Patil, Hanumant B. Borate, Datta E. Ponde and Vishnu H. Deshpande*

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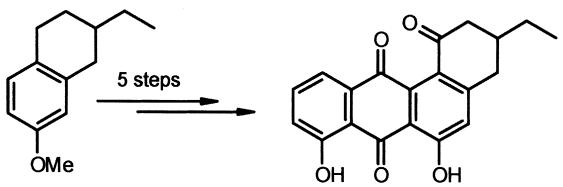

(±)-Brasiliquinone B

Synthesis and biological evaluation of 7-azaindolocarbazoles

Tetrahedron 58 (2002) 6621

Sylvain Routier,[a,*] Nathalie Ayerbe,[a] Jean-Yves Mérour,[a] Gérard Coudert,[a] Christian Bailly,[b] Alain Pierré,[c] Bruno Pfeiffer,[d] Daniel-Henri Caignard[d] and Pierre Renard[d]

[a]*Institut de Chimie Organique et Analytique, Associé au CNRS, Université d'Orléans, B.P. 6759, 45067 Orleans Cedex 2, France*
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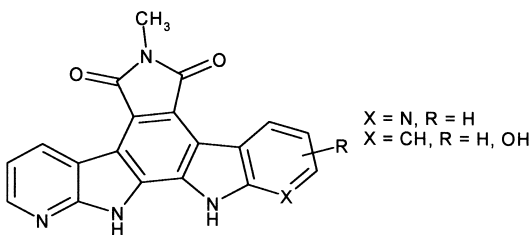

Paradisin C: a new CYP3A4 inhibitor from grapefruit juice

Tetrahedron 58 (2002) 6631

Tomihisa Ohta,[a,*] Takuro Maruyama,[a] Minoru Nagahashi,[a] Yasuyo Miyamoto,[a] Shinzo Hosoi,[a] Fumiyuki Kiuchi,[a] Yasushi Yamazoe[b] and Sachiko Tsukamoto[a]

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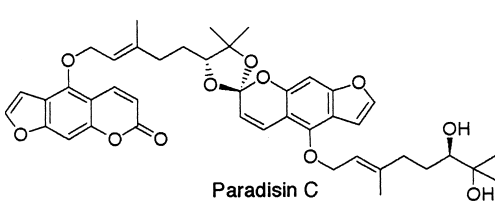
[b]*Graduate School of Pharmaceutical Sciences, Tohoku University, Aoba Aramaki, Aoba-ku, Sendai 980-8578, Japan*



Paradisin C

Daphnezomines L, M, N, and O, new alkaloids from *Daphniphyllum humile*

Tetrahedron 58 (2002) 6637

Hiroshi Morita and Jun'ichi Kobayashi*

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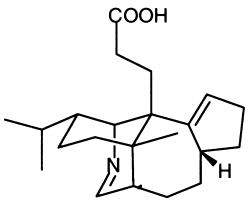
Four new alkaloids, daphnezomines L–O (**1**–**4**), have been isolated from the stems of *Daphniphyllum humile*, and the structures and the relative stereochemistry were elucidated on the basis of spectroscopic data. The structure of daphnezomine L (**1**) was close to that of a biogenetic intermediate from secodaphnane to daphnane skeletons proposed previously.



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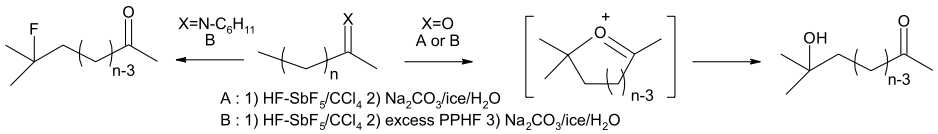
Functionalization of non-activated C–H bonds in ketones and imines with HF/SbF_5/CCl_4

Tetrahedron 58 (2002) 6643

Sébastien Thibaudeau, Agnès Martin-Mingot Marie-Paule Jouannetaud* and J. C. Jacquesy

Laboratoire 'Synthèse et Réactivité des Substances Naturelles', UMR 6514, 40, Avenue du Recteur Pineau, F-86022 Poitiers Cedex, France

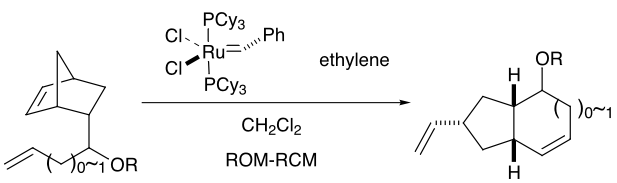


Domino ring opening–ring closing metathesis (ROM–RCM) strategy toward bicyclo[*n*.3.0]cycloalkenes

Tetrahedron 58 (2002) 6651

Hisahiro Hagiwara,[a,*] Tomoko Katsumi,[a] Satoru Endou,[a] Takashi Hoshi[b] and Toshio Suzuki[b]

[a]*Graduate School of Science and Technology, Niigata University, 8050, 2-nocho, Ikarashi, Niigata 950-2181, Japan*
[b]*Faculty of Engineering, Niigata University, 8050, 2-nocho, Ikarashi, Niigata 950-2181, Japan*



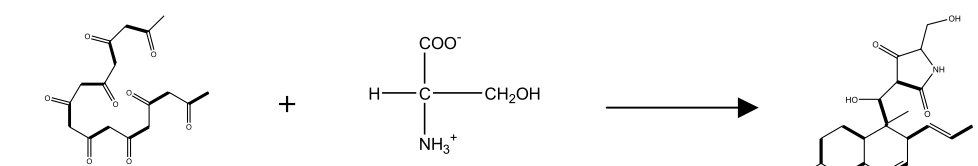
Biosynthetic studies of the tetramic acid antibiotic trichosetin

Tetrahedron 58 (2002) 6655

Eufrocinio C. Marfori, Takeshi Bamba, Shin 'ichiro Kajiyama, Ei-ichiro Fukusaki and Akio Kobayashi*

Department of Biotechnology, Graduate School of Engineering, Osaka University, 2-1 Yamadaoka, Suita-shi, Osaka 565-0871, Japan

Incorporation of ^{13}C labeled precursors revealed that trichosetin originated from an octaketide intermediate and serine.



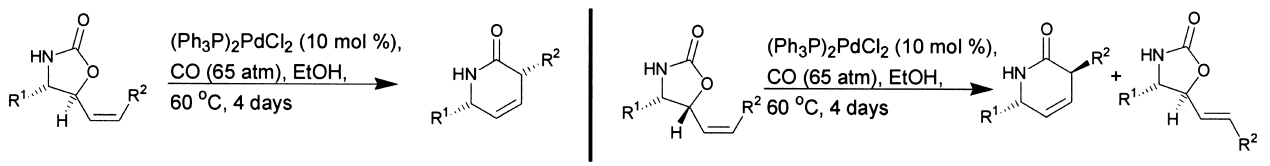
octaketide intermediate serine trichosetin

Diastereospecific carbonylation of π-allylpalladium complexes to give 3,6-disubstituted 3,6-dihydro-1*H*-pyridin-2-ones

Tetrahedron 58 (2002) 6659

Julian G. Knight* and Kirill Tchabanenko

Department of Chemistry, Bedson Building, Newcastle University, Newcastle upon Tyne NE1 7RU, UK

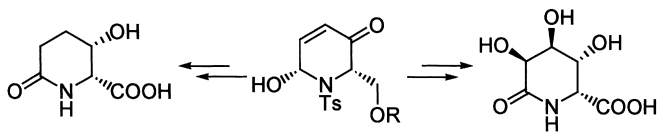


Asymmetric synthesis of (2*R*,3*S*)-3-hydroxypipecolic acid δ-lactam derivatives

Tetrahedron 58 (2002) 6665

Sofia D. Koulocheri,[a] Prokopios Magiatis,[b] Alexios-Leandros Skaltsounis[b] and Serkos A. Haroutounian[a,*]

[a]*Chemistry Laboratory, Agricultural University of Athens, Iera odos 75, Athens 11855, Greece*
[b]*Department of Pharmacy, University of Athens, Panepistimiopolis Zografou, Athens 15771, Greece*



Intramolecular Heck reaction of 2- and 3-iodoindole derivatives for the synthesis of β- and γ-carbolinones

Tetrahedron 58 (2002) 6673

Egle M. Beccalli,[a,*] Gianluigi Broggini,[b] Alessandro Marchesini[a] and Elisabetta Rossi[a]

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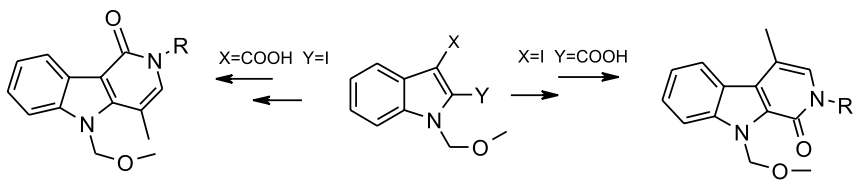
[b]*Dipartimento di Scienze Chimiche, Fisiche e Matematiche dell' Università dell' Insubria, via Lucini 3, 22100 Como, Italy*



Diastereoselective oxidation of β-hydroxysulfides with TBHP: a comparative study of titanocenes and Ti(O*i*-Pr)$_4$ as catalysts

Tetrahedron 58 (2002) 6679

Giorgio Della Sala, Stefania Labano, Alessandra Lattanzi* and Arrigo Scettri*

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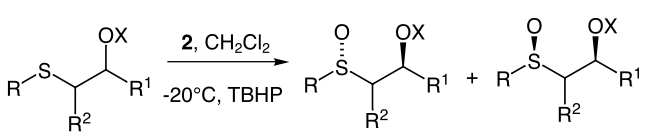


1/5 **3/6** **4/7**

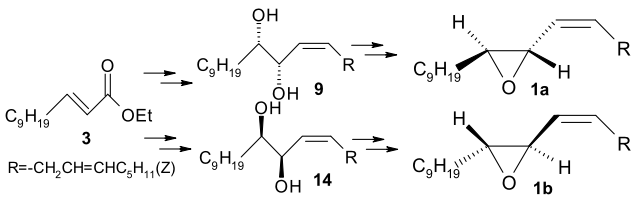
2=Cp_2TiCl_2, *rac*-$(EBTHI)_2TiCl_2$, Ti(O-*i*-Pr)$_4$ X=H, *t*-Bu(Me)$_2$Si

Asymmetric dihydroxylation and one-pot epoxidation routes to (+)- and (−)-posticlure: a novel *trans*-epoxide as a sex pheromone component of *Orgyia postica* (Walker)

Tetrahedron 58 (2002) 6685

Rodney A. Fernandes and Pradeep Kumar*

Division of Organic Chemistry: Technology, National Chemical Laboratory, Pune 411008, India

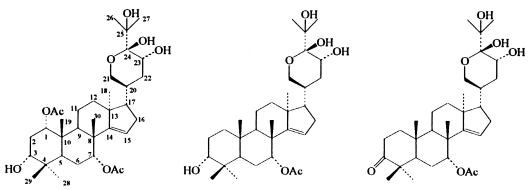


Three new apo-tirucallols with six-membered hemiacetal from Meliaceae

Tetrahedron 58 (2002) 6691

Xiao-Dong Luo,* Shao-Hua Wu, Da-Gang Wu Yun-Bao Ma and Shu-Hua Qi

State Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, The Chinese Academy of Sciences, 650204 Kunming, Yunnan, People's Republic of China



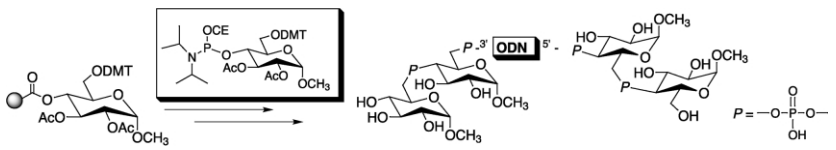
Solid phase synthesis of oligonucleotides tethered to oligo-glucose phosphate tails

Tetrahedron 58 (2002) 6697

Matteo Adinolfi,[a] Lorenzo De Napoli,[a,*] Giovanni Di Fabio,[a] Alfonso Iadonisi,[a] Daniela Montesarchio[a] and Gennaro Piccialli[b]

[a]*Dipartimento di Chimica Organica e Biochimica, Università degli Studi di Napoli 'Federico II', via Cynthia 4, 80126 Napoli, Italy*
[b]*Dipartimento di Chimica delle Sostanze Naturali, Università degli Studi di Napoli 'Federico II', via D. Montesano 49, 80131 Napoli, Italy*

Oligonucleotides conjugated at both the 3′ and 5′-ends with glucose residues, 4,6-linked through a phosphodiester bridge, have been synthesized by sequential addition of a 6-DMT-glucose-4-phosphoramidite building block following a standard automated ODN assembly procedure. Two 3′,5′-bis-glycoconjugated 18-mers, designed for antisense experiments, have been prepared and their hybridization properties with a complementary DNA fragment evaluated by UV thermal analysis.



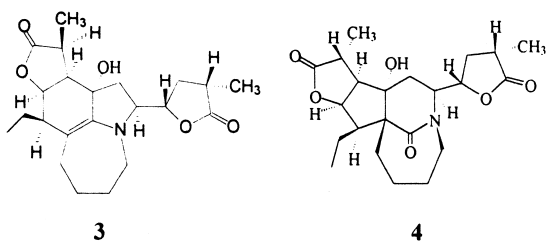
Isolation and stereochemistry of two new alkaloids from *Stemona tuberosa*

Tetrahedron 58 (2002) 6705

Ren-Wang Jiang,[a] Po-Ming Hon,[b] Paul Pui-Hay But,[b] Hoi-Sing Chung,[c] Ge Lin,[c] Wen-Cai Ye[d] and Thomas C. W. Mak[a,*]

[a]*Department of Chemistry, The Chinese University of Hong Kong, Hong Kong SAR, People's Republic of China*
[b]*Department of Biology and Institute of Chinese Medicine, The Chinese University of Hong Kong, Hong Kong SAR, People's Republic of China*
[c]*Department of Pharmacology, The Chinese University of Hong Kong, Hong Kong SAR, People's Republic of China*
[d]*Department of Phytochemistry, China Pharmaceutical University, Nanjing 210009, People's Republic of China*

Two new stenine-type alkaloids, neotuberostemonol (**3**) and neotuberostemoninol (**4**), along with the known compound neotuberostemonine (**2**), were isolated from *Stemona tuberosa* Lour.

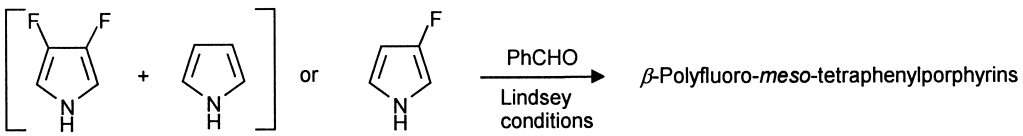


Synthesis and characterization of partially β-fluorinated 5,10,15,20-tetraphenylporphyrins and some derivatives

Tetrahedron 58 (2002) 6713

Jacques Leroy,[a,*] Emmanuel Porhiel[b] and Arnaud Bondon[b]

[a]*Ecole Normale Supérieure, Département de Chimie, UMR CNRS 8640, 24 rue Lhomond, 75231 Paris Cedex 05, France*
[b]*Laboratoire de Chimie Organométallique et Biologique, UMR CNRS 6509, Université de Rennes 1, 35042 Rennes Cedex, France*

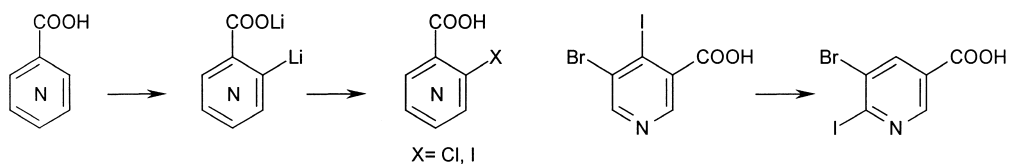


Directed lithiation of unprotected pyridinecarboxylic acids: syntheses of halo derivatives

Tetrahedron 58 (2002) 6723

Jalal Lazaar, Anne-Sophie Rebstock, Florence Mongin,* Alain Godard, François Trécourt Francis Marsais and Guy Quéguiner

Laboratoire de Chimie Organique Fine et Hétérocyclique, UMR 6014, IRCOF, Place E. Blondel, BP 08, 76131 Mont Saint Aignan Cédex, France

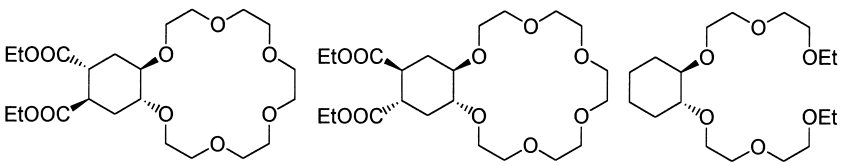


Crown ethers derived from cyclohexane. Influence of their stereochemistry in complexation and transport

Tetrahedron 58 (2002) 6729

Ana M. Costero,* J. Pablo Villarroya, Salvador Gil M. José Aurell and M. Carmen Ramirez de Arellano

Departamento de Química Orgánica, Universidad de Valencia, Doctor Moliner 50, Vicente Andrés Estellés s/n, 46100-Burjassot, Valencia, Spain



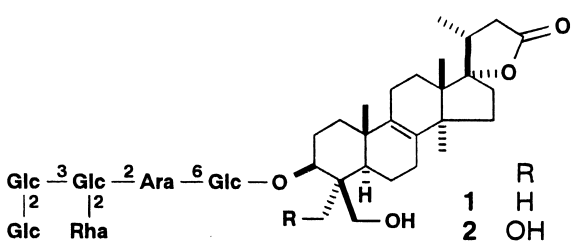
Lucilianosides A and B, two novel tetranor-lanostane hexaglycosides from the bulbs of *Chionodoxa luciliae*

Tetrahedron 58 (2002) 6735

Minpei Kuroda,[a] Yoshihiro Mimaki,[a,*] Kazutomo Ori,[a] Hiroyuki Koshino,[b] Tomoo Nukada,[b] Hiroshi Sakagami[c] and Yutaka Sashida[a]

[a]*School of Pharmacy, Tokyo University of Pharmacy and Life Science, 1432-1 Horinouchi, Hachioji, Tokyo 192-0392, Japan*
[b]*RIKEN (The Institute of Physical and Chemical Research), 2-1 Hirosawa, Wako, Saitama 351-0198, Japan*
[c]*Department of Dental Pharmacology, Meikai University School of Dentistry, 1-1 Keyaki-dai, Sakado, Saitama 350-0283, Japan*

Two novel hexaglycosides based upon the pentacyclic tetranor-lanostane skeleton with a γ-lactone system, designated as lucilianoside A (**1**) and B (**2**), were isolated from the bulbs of *Chionodoxa luciliae*.

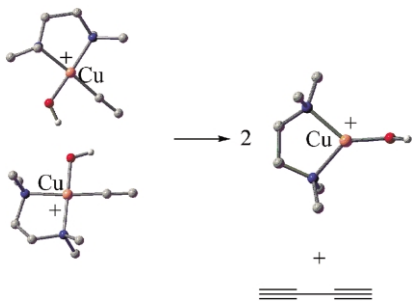


The Glaser reaction mechanism. A DFT study

Tetrahedron 58 (2002) 6741

Lioudmila Fomina, Blanca Vazquez, Ekaterina Tkatchouk and Serguei Fomine*

Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México, Apartado Postal 70-360 CU, Coyoacán, Mexico DF 04510, Mexico



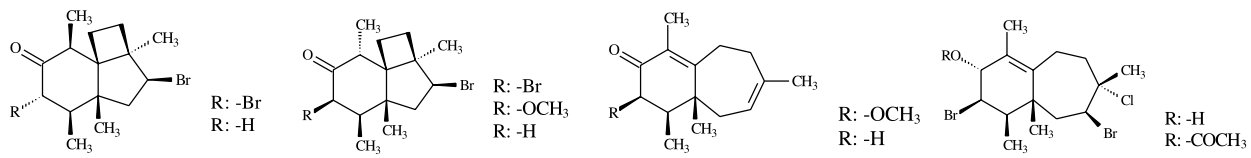
Halogenated sesquiterpenes from the red alga *Laurencia obtusa*

Tetrahedron 58 (2002) 6749

Dimitra Iliopoulou,[a] Vassilios Roussis,[a] Christophe Pannecouque,[b] Erik De Clercq[b] and Constantinos Vagias[a,*]

[a]*Department of Pharmacy, Division of Pharmacognosy and Chemistry of Natural Products, University of Athens, Panepistimioupolis Zografou, Athens 15771, Greece*

[b]*Rega Instituut, Katholieke Universiteit Leuven, Minderbroedersstraat 10, B-3000 Leuven, Belgium*



Generation of chiral *N*-acylpyridinium ions by means of silyl triflates and their diastereoselective trapping reactions: formation of *N*-acyldihydropyridines and *N*-acyldihydropyridones

Tetrahedron 58 (2002) 6757

Cornelia E. Hoesl, Markus Maurus, Jörg Pabel, Kurt Polborn and Klaus Th. Wanner*

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