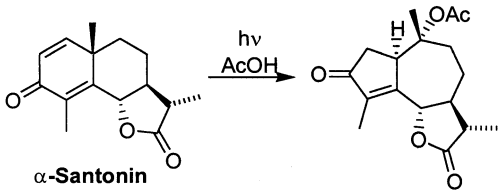
Construction of cyclopentyl units by ring contraction reactions

Tetrahedron 58 (2002) 9137

Luiz F. Silva, Jr.

Instituto de Química, Universidade de São Paulo, CP 26077, CEP 05513-970, Sao Paulo, SP, Brazil



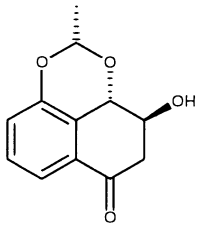
A new cytotoxic tetralone derivative from *Humicola grisea*, a filamentous fungus from wood in the southeastern lagoon of New Caledonia

Tetrahedron 58 (2002) 9163

Dominique Laurent,[a] Graziano Guella,[b,*] Ines Mancini,[b] Marie-France Roquebert,[c] Fabrice Farinole[a] and Francesco Pietra[d]

[a]*Laboratoire de Pharmacochimie des Substances Naturelles, IRD/UND, Centre IRD, 98 848 Nouméa, New Caledonia*
[b]*Laboratorio di Chimica Bioorganica, Università di Trento, I-38050 Povo-Trento, Italy*
[c]*Laboratoire de Cryptogamie, Muséum National d'Histoire Naturelle, 12 rue Buffon, F-75005 Paris, France*
[d]*via della Fratta 9, I-55100 Lucca, Italy*

Humicolone, a new phenolic tetralone in acetal form, was isolated from cultures of *Humicola grisea* Traaen and determined from MTPA esters to have absolute configuration 1′*R*,3*S*,4*S*.



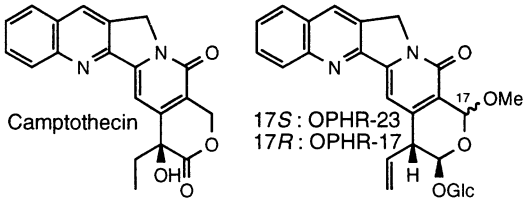
Camptothecin-related alkaloids from hairy roots of *Ophiorrhiza pumila*

Tetrahedron 58 (2002) 9169

Mariko Kitajima,[a] Satoshi Yoshida,[a] Kyoko Yamagata,[a] Mio Nakamura,[a] Hiromitsu Takayama,[a] Kazuki Saito,[a] Hiroko Seki[b] and Norio Aimi[a,*]

[a]*Graduate School of Pharmaceutical Sciences, Chiba University, 1-33 Yayoi-cho, Inage-ku, Chiba 263-8522, Japan*
[b]*Chemical Analysis Center, Chiba University, 1-33 Yayoi-cho, Inage-ku, Chiba 263-8522, Japan*

From the hairy roots of *Ophiorrhiza pumila*, a rubiaceous camptothecin-producing plant, camptothecin and its related alkaloids including two new camptothecinoids, OPHR-23 and OPHR-17, were isolated. The structures of the new alkaloids including the absolute configurations were determined by spectroscopic analyses and chemical conversion from tryptamine and secologanin.

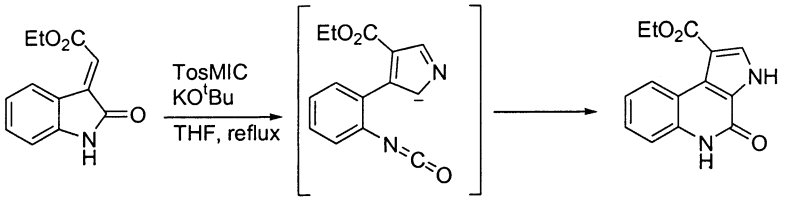


Synthesis of 4-oxo-4,5-dihydro-3*H*-pyrrolo[2,3-*c*]quinoline-1-carboxylic acid ethyl ester and its isomer 1-oxo-2,9-dihydro-1*H*-β-carboline-4-carboxylic acid ethyl ester

Tetrahedron 58 (2002) 9179

Jan Bergman* and Stanley Rehn

Unit for Organic Chemistry, Department of Biosciences, Karolinska Institute, and Södertörn University College, Novum Research Park, SE-141 57 Huddinge, Sweden

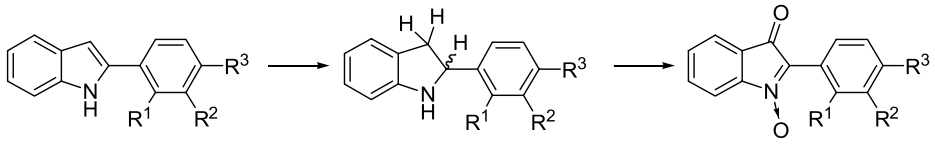


Oxygenation of 2,3-dihydroindoles

Tetrahedron 58 (2002) 9187

Johnny Slätt and Jan Bergman*

Unit for Organic Chemistry, Department of Biosciences, Karolinska Institute and Södertörn University College, Novum Research Park, SE-141 57 Huddinge, Sweden

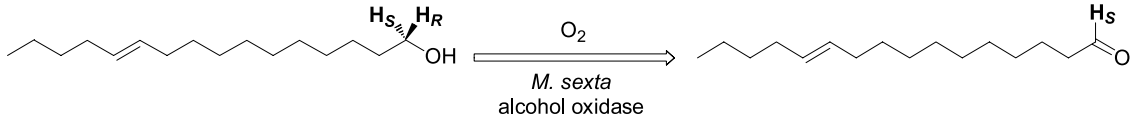


Biosynthesis of sex pheromones in moths: stereochemistry of fatty alcohol oxidation in *Manduca sexta*

Tetrahedron 58 (2002) 9193

Michal Hoskovec,[a,b,*] Anna Luxová,[b] Aleš Svatoš[a] and Wilhelm Boland[a]

[a]*Department of Bioorganic Chemistry, Max Planck Institute of Chemical Ecology, Winzerlaer Str. 10, D-07745 Jena, Germany*
[b]*Department of Natural Products, Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic (ACSR), Flemingovo nám. 2, CZ-166 10 Prague 6, Czech Republic*

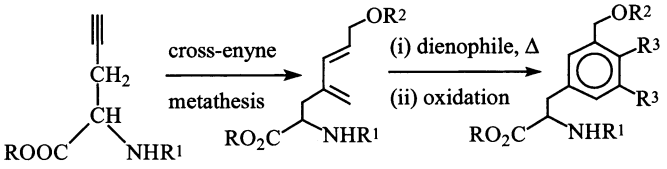


Synthesis of highly functionalized phenylalanine derivatives via cross-enyne metathesis reactions

Tetrahedron 58 (2002) 9203

Sambasivarao Kotha,* Somnath Halder and Enugurthi Brahmachary

Department of Chemistry, Indian Institute of Technology-Bombay, Mumbai, 400 076, India



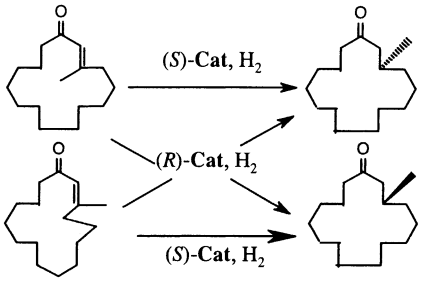
A novel synthetic method for (*R*)- and (*S*)-muscones by enantioselective hydrogenation of (*E*)- and (*Z*)-3-methyl-2-cyclopentadecen-1-ones catalyzed by *p-tolyl*-BINAP-Ru(II) complexes

Tetrahedron 58 (2002) 9209

Takeshi Yamamoto,* Miharu Ogura and Tsuneyoshi Kanisawa

Takasago International Corporation, Central Research Laboratory, Nishi-Yawata 1-4-11, Hiratsuka, Kanagawa 254-0074, Japan

Cat: Ru_2Cl_4(*p-tolyl*-binap)$_2NEt_3$

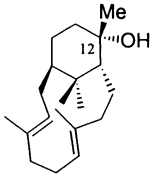


Synthesis of *dl*-12-epiverticillol

Tetrahedron 58 (2002) 9213

Tadahiro Kato,[a,*] Masahiro Hoshikawa,[a] Yoshihiro Yaguchi,[a] Kiyokazu Izumi,[a]
Yukio Uotsu[a] and Ken Sakai[b]

[a]*Department of Chemistry, Faculty of Science, Tokyo University of Science, Kagurazaka 1-3, Shinjuku-ku, Tokyo 162-8601, Japan*
[b]*Department of Applied Chemistry, Faculty of Science, Tokyo University of Science, Kagurazaka 1-3, Shinjuku-ku, Tokyo 162-8601, Japan*



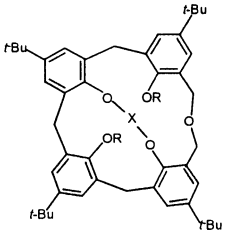
12-Epiverticillol

Synthesis, conformational behaviour, alkali and alkaline-earth metal cation extraction and transport studies of *p-tert*-butyldihomooxacalix[4]crowns

Tetrahedron 58 (2002) 9223

Paula M. Marcos,[a,b,*] Sandra Félix,[a] José R. Ascenso,[c] M. Amélia Santos,[c] Manuel A. P. Segurado[b]
and J. L. C. Pereira[a]

[a]*Departamento de Química, Centro de Ciências Moleculares e Materiais (CCMM),*
Faculdade de Ciências da Universidade de Lisboa, Edifício C8, 1749-016 Lisboa, Portugal
[b]*Faculdade de Farmácia da Universidade de Lisboa, Av. das Forças Armadas, 1649-019 Lisboa, Portugal*
[c]*Instituto Superior Técnico, Complexo I, Av. Rovisco Pais, 1049-001 Lisboa, Portugal*



A new dihomooxacalix[4]crown-6 (**4**) was synthesized and isolated in a partial cone A conformation in solution at rt, as established by NMR (^{1}H, ^{13}C, COSY and NOESY). Conformational behaviour of **4** and of dihomooxacalixcrowns **2** and **3** was studied by dynamic ^{1}H NMR and MD/MM calculations. Extraction and transport studies have been performed with all compounds, towards alkali and alkaline earth metal cations.

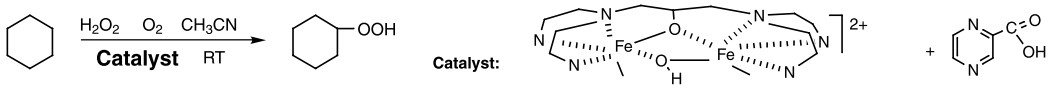
2 X = $(CH_2CH_2O)_3CH_2CH_2$, R = H
3 X = $(CH_2CH_2O)_4CH_2CH_2$, R = H
4 X = $(CH_2CH_2O)_4CH_2CH_2$, R = CH_3

Hydroperoxidation of methane and other alkanes with H_2O_2 catalyzed by a dinuclear iron complex and an amino acid

Tetrahedron 58 (2002) 9231

Galina V. Nizova,[a] Bernt Krebs,[b] Georg Süss-Fink,[c] Siegfried Schindler,[d] Lars Westerheide,[b] Laura Gonzalez Cuervo[c]
and Georgiy B. Shul'pin[a,*]

[a]*Semenov Institute of Chemical Physics, Russian Academy of Sciences, ul. Kosygina 4, Moscow 119991, Russian Federation*
[b]*Anorganisch-chemisches Institut, Universität Münster, D-48149 Münster, Germany*
[c]*Institut de Chimie, Université de Neuchâtel, CH-2007 Neuchâtel, Switzerland*
[d]*Institut für Anorganische-Chemie, Universität Erlangen-Nürnberg, D-91058 Erlangen, Germany*

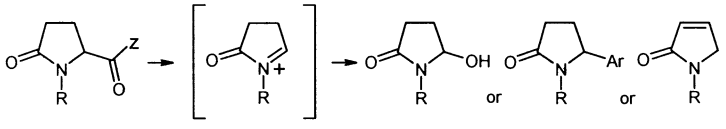


Studies on pyrrolidinones. On the decarboxylation of pyroglutamic acids and *N*-acyl prolines in acidic media

Tetrahedron 58 (2002) 9239

Rufine Akué-Gédu,[a] Sahar Al Akoum Ebrik,[a] Anne Witczak-Legrand,[a] Dominique Fasseur,[a] Samira El Ghammarti,[a]
Daniel Couturier,[b] Bernard Decroix,[c] Mohamed Othman,[c] Marc Debacker[d] and Benoît Rigo[a,*]

[a]*Groupe de Recherche sur l'Inhibition de la Prolifération Cellulaire, EA 2692, Ecole des Hautes Etudes Industrielles,*
13, rue de Toul, 59046 Lille, France
[b]*Laboratoire d'Ingénierie Moléculaire, Université des Sciences et Technologies de Lille, 59655 Villeneuve D'Ascq, France*
[c]*Laboratoire de Chimie, Faculté des Sciences et Techniques de L'Université du Havre, 76058 Le Havre, France*
[d]*LASIR-HEI, UMR 8516, 13 rue de Toul, 59046 Lille, France*



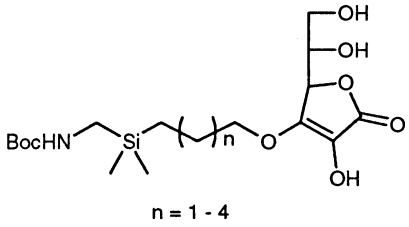
Synthesis of L-ascorbic acid derivatives as potential bone remodeling agents taking advantage of the Mitsunobu reaction

Tetrahedron 58 (2002) 9249

Gil Vilaça, Cyril Rubio, Jacques Susperregui, Laurent Latxague and Gérard Déléris*

INSERM U-443—Groupe de Chimie Bioorganique, Université Victor Segalen Bordeaux 2, 146 rue Léo Saignat, F-33076 Bordeaux Cedex, France

Four L-ascorbic acid derivatives have been synthesized via a Mitsunobu reaction and the proposed structure was confirmed by 2D NMR spectroscopy.

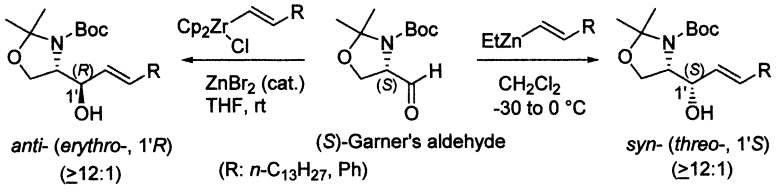


Efficient stereodivergent synthesis of *erythro*- and *threo*-sphingosines: unprecedented reversal of the stereochemistry in the addition

Tetrahedron 58 (2002) 9257

Teiichi Murakami* and Kiyotaka Furusawa

National Institute of Advanced Industrial Science and Technology (AIST), AIST Tsukuba Central 5, Tsukuba, Ibaraki 305-8565, Japan

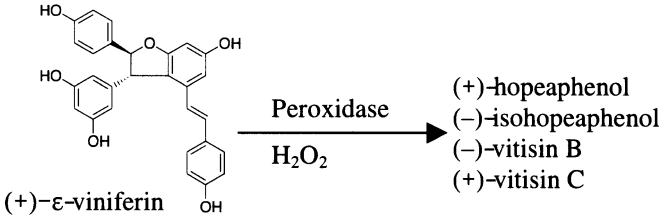


Biogenetic reactions on stilbenetetramers from Vitaceaeous plants

Tetrahedron 58 (2002) 9265

Yoshiaki Takaya, Ke-Xu Yan, Kenji Terashima, Yue-Hua He and Masatake Niwa*

Faculty of Pharmacy, Meijo University, Tempaku, Nagoya 468-8503, Japan

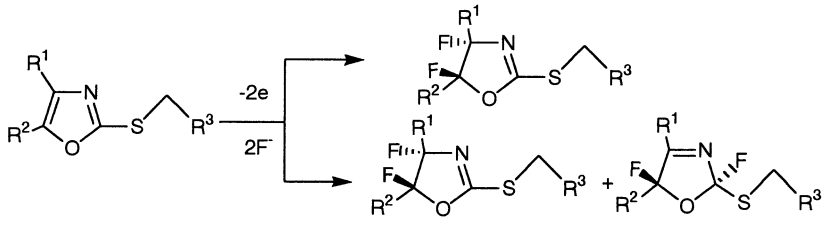


Electrolytic partial fluorination of organic compounds. Part 65: Regioselective anodic difluorination of oxazolyl sulfides

Tetrahedron 58 (2002) 9273

Sayed M. Riyadh, Hideki Ishii and Toshio Fuchigami*

Department of Electronic Chemistry, Tokyo Institute of Technology, 4259 Nagatsuta, Midori-ku, Yokohama 226-8502, Japan

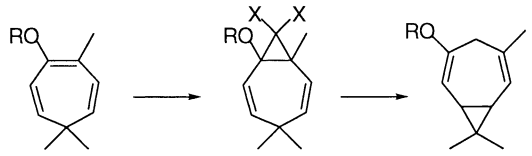


Tetrahedron 58 (2002) 9279

Preparation of *gem*-dimethylcyclopropane-fused compounds through sigmatropic rearrangements. On/off-switching of the tautomerization of 3,4-homotropilidene by steric hindrance

Tohru Futagawa, Norio Nishiyama, Akira Tai, Tadashi Okuyama and Takashi Sugimura*

Graduate School of Science, Himeji Institute of Technology, 3-2-1 Kohto, Kamigori, Ako-gun, Hyogo 678-1297, Japan



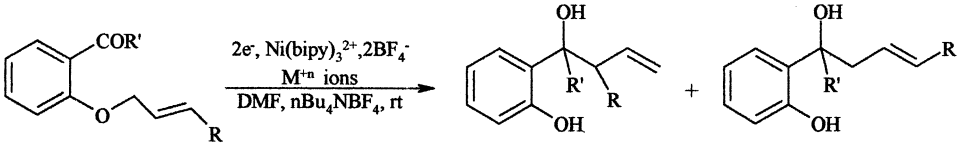
Tetrahedron 58 (2002) 9289

Regioselectivity in the intramolecular allyl transfer reaction catalysed by electrogenerated nickel complexes: influence of metal ions

Delphine Franco[a] and Elisabet Duñach[b,*]

[a]*Laboratoire Arômes, Synthèses et Interactions, CNRS, UMR 6001, Université de Nice-Sophia Antipolis, 06108 Nice cédex 2, France*

[b]*Laboratoire de Chimie Bio-Organique, CNRS, UMR 6001, Université de Nice-Sophia Antipolis, 06108 Nice cédex 2, France*



1 **2** **3**