

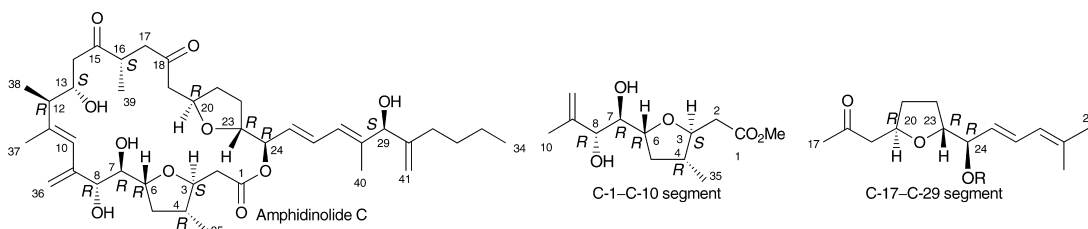
Graphical abstracts

Absolute stereochemistry of amphidinolide C: synthesis of C-1–C-10 and C-17–C-29 segments

Tetrahedron 59 (2003) 1613

Takaaki Kubota, Masashi Tsuda and Jun'ichi Kobayashi*

Graduate School of Pharmaceutical Sciences, Hokkaido University, Kita-12 Nishi-6, Kita-ku, Sapporo 060-0812, Japan



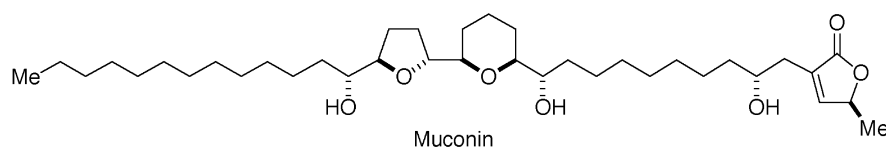
Stereoselective total synthesis of muconin

Tetrahedron 59 (2003) 1627

Shunya Takahashi,^{a,*} Akemi Kubota^b and Tadashi Nakata^{a,b}

^aRIKEN (The Institute of Physical and Chemical Research), Hirosawa 2-1, Wako-shi, Saitama 351-0198, Japan

^bGraduate School of Science and Engineering, Saitama University, Saitama, Saitama 338-8570, Japan

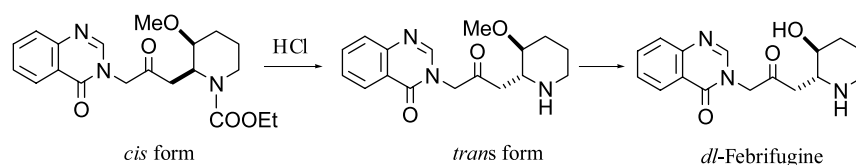


Synthesis of febrifugine derivatives and a solution to the puzzle of the structural determination of febrifugine

Tetrahedron 59 (2003) 1639

Yasuo Takeuchi,* Kumiko Azuma, Miyo Oshige, Hitoshi Abe, Hiromi Nishioka, Kenji Sasaki and Takashi Harayama*

Faculty of Pharmaceutical Sciences, Okayama University, Tsushima-naka 1-1-1, Okayama 700-8530, Japan

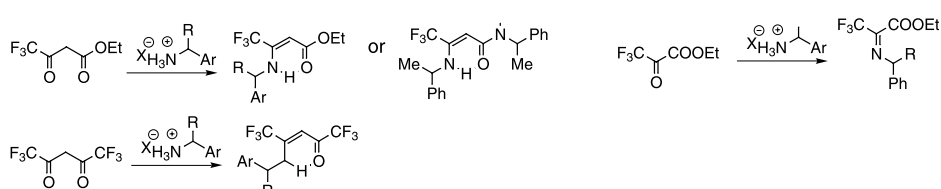


Chemo- and regioselectivity in the reactions between highly electrophilic fluorine containing dicarbonyl compounds and amines. Improved synthesis of the corresponding imines/enamines

Tetrahedron 59 (2003) 1647

Hironari Ohkura, Dmitrii O. Berbasov and Vadim A. Soloshonok*

Department of Chemistry and Biochemistry, University of Oklahoma, 620 Parrington Oval, Norman, OK 73019, USA



Facts and artifacts about aromatic stability estimation

Tetrahedron 59 (2003) 1657

Michał K. Cyrański,^{a,*} Paul von Ragué Schleyer,^{b,c} Tadeusz M. Krygowski,^a Haijun Jiao^d and Georg Hohlneicher^e

^aDepartment of Chemistry, University of Warsaw, Pasteura 1, 02093 Warsaw, Poland

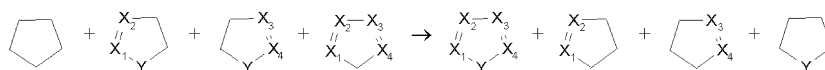
^bUniversität Erlangen-Nürnberg, Henkestrasse 42, D-91054 Erlangen, Germany

^cComputational Chemistry Annex, University of Georgia, Athens, GA 30602-2525, USA

^dLeibniz-Institut für Organische Katalyse an der Universität Rostock e.V., Buchbinderstrasse 5-6, 18055 Rostock, Germany

^eInstitut für Physikalische Chemie II, Universität zu Köln, Luxemburger Straße 116, 50939 Köln, Germany

We strongly recommend that only homodesmotic reactions based on cyclic reference compounds should be used for ASE and other aromaticity evaluations.

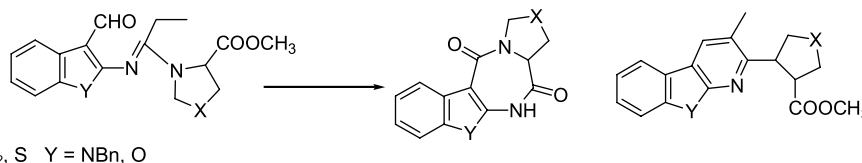


2-Amidinylindole-3-carbaldehydes: synthesis of new tetracyclic compounds containing the pyrrolo[1,2-c]1,4-diazepine ring

Tetrahedron 59 (2003) 1667

Francesca Clerici, Emanuela Erba* and Donato Pocar

Istituto di Chimica Organica "Alessandro Marchesini" e Centro Interuniversitario di Ricerca sulle Reazioni Pericicliche e Sintesi di Sistemi Etero- e Carbociclici, Università degli Studi di Milano, Via G. Venezian, 21, I-20133 Milan, Italy



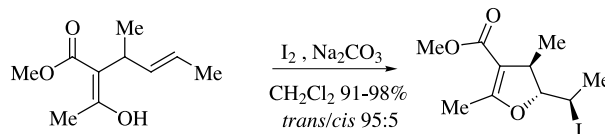
X = CH₂, S Y = NBn, O

Iodoenolcyclisation of 2-(1,3-disubstituted-1-allyl)-1,3-dicarbonyl compounds: diastereoselective synthesis of tetrasubstituted dihydrofurans

Tetrahedron 59 (2003) 1673

Roberto Antonioletti,* Savina Malancona, Fabrizio Cattaruzza and Paolo Bovicelli

C.N.R. Istituto di Chimica Biomolecolare—Sezione di Roma, c/o Dipartimento di Chimica, Università di Roma "La Sapienza", p.le A. Moro 5, Box 34 Roma 62, I-00185 Rome, Italy



16 examples

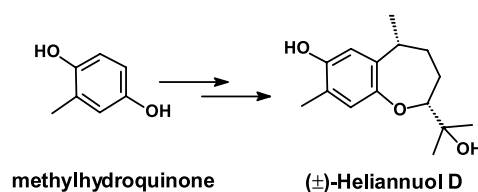
Synthesis of heliannane skeletons. Facile preparation of (±)-heliannuol D

Tetrahedron 59 (2003) 1679

Francisco A. Macías,* David Chinchilla, José M. G. Molinillo, David Marín, Rosa M. Varela and Ascensión Torres

Grupo de Alelopatía, Departamento de Química Orgánica, Universidad de Cádiz, Avda. República Saharaui, s/n, Apdo. 40, 11510 Puerto Real (Cádiz), Spain

Heliannuol D is a natural product with a 7,10-heliannane skeleton, isolated from *Helianthus annuus*. It has been synthesized in eight steps, in good yield, using a new biomimetic method. Key steps were a Fries rearrangement, a Grignard reaction and, finally, a base catalyzed cyclization.



methylhydroquinone

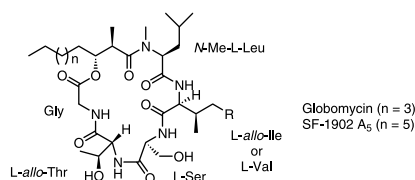
(±)-Heliannuol D

Total synthesis and NMR conformational study of signal peptidase II inhibitors, globomycin and SF-1902 A₅

Toshihiro Kiho, Mizuka Nakayama and Hiroshi Kogen*

Exploratory Chemistry Research Laboratories, Sankyo Co., Ltd., 2-58, Hiromachi 1-chome, Shinagawa-ku Tokyo 140-8710, Japan

Tetrahedron 59 (2003) 1685

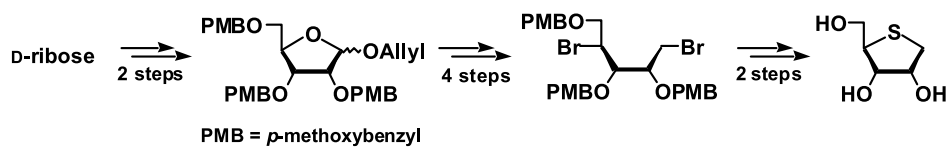


An improved large scale synthesis of 1,4-anhydro-4-thio-D-ribose

Noriaki Minakawa,* Yuka Kato, Koichi Uetake, Daisuke Kaga and Akira Matsuda*

Graduate School of Pharmaceutical Sciences, Hokkaido University, Kita-12, Nishi-6, Kita-ku, Sapporo 060-0812, Japan

Tetrahedron 59 (2003) 1699



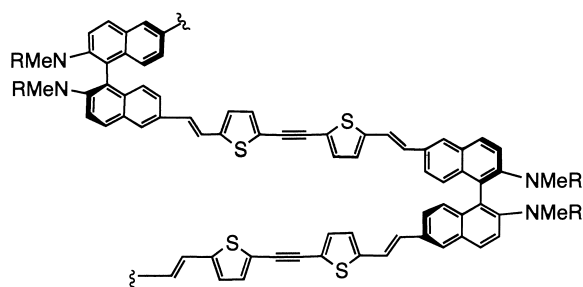
Synthesis of chiral polybinaphthyls with novel conjugated chromophores

Hui-Chang Zhang and Lin Pu*

Department of Chemistry, University of Virginia, Charlottesville, VA 22904-4319, USA

Chiral polymers contain conjugated chromophores with strong electron donors.

Tetrahedron 59 (2003) 1703



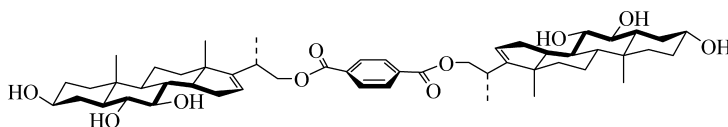
Synthesis of a transmembrane ionophore based on a C₂-symmetric polyhydroxysteroid derivative

Marcello Di Filippo,^a Irene Izzo,^a Loredana Savignano,^a Paolo Tecilla^b and Francesco De Riccardis^{a,*}

^aDepartment of Chemistry, University of Salerno, via S. Allende, I-84081, Baronissi, (SA), Italy

^bDepartment of Chemical Sciences, University of Trieste, via L. Giorgieri, I-34127, Trieste, Italy

Tetrahedron 59 (2003) 1711



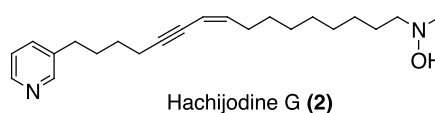
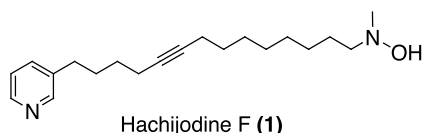
Total synthesis of cytotoxic sponge alkaloids hachijodines F and G

Tetrahedron 59 (2003) 1719

William R. F. Goundry, Jack E. Baldwin and Victor Lee*

The Dyson Perrins Laboratory, University of Oxford, South Parks Road, Oxford OX1 3QY, UK

The full detail for the investigation of the synthesis for compounds **1** and **2** is described.

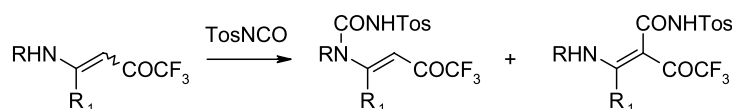


Regioselective reactions of β -aminovinyl trifluoromethyl ketones with tosyl isocyanate

Tetrahedron 59 (2003) 1731

Natalie V. Lyutenko, Igor I. Gerus,* Alexey D. Kacharov and Valery P. Kukhar

Institute of Bioorganic Chemistry and Petrochemistry, National Ukrainian Academy of Sciences, Kiev, 02094, Ukraine

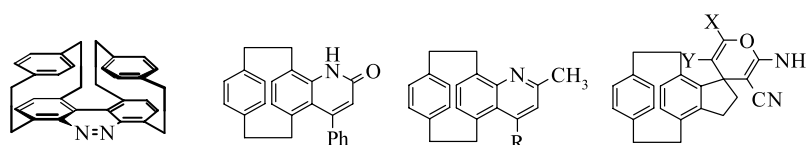


Photochemical synthesis of [2.2](3,8)-pyridazinophane and quinolinophane-2(1H)-one as well as synthesis of [2](5,8)-quinolinophanes and fused spiro-pyranoindanoparacyclophanes

Tetrahedron 59 (2003) 1739

Ashraf A. Aly

Department of Chemistry, Faculty of Science, El-Minia University, El-Minia, Egypt



An approach to acyclo-3-deazapyrimidine S-nucleosides via 3,5-dicyano-2(1H)-pyridinethiones

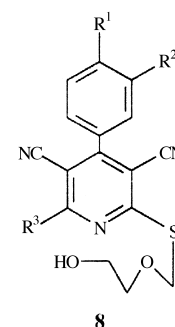
Tetrahedron 59 (2003) 1749

Adel M. E. Attia^{a,*} and Abd El-Hamid A. A. Ismail^b

^a*Department of Chemistry, Faculty of Education, University of Tanta (Kafr El-Sheikh Branch) 33516, Egypt*

^b*Department of Chemistry, Faculty of Science, Menoufia University, Shebin El-Koom, Egypt*

A first reported coupling reaction for preparation of acyclo-3-deazapyrimidine nucleosides **8** has been studied.



Cyclophosphorylation of polyphenols by diamidoarylphosphites

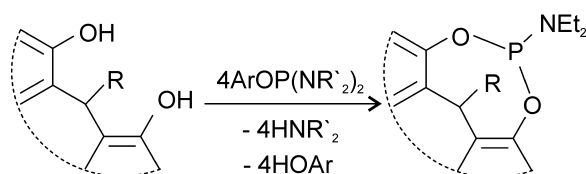
Tetrahedron 59 (2003) 1753

Vera I. Maslennikova,^a Roman V. Merkulov,^b Maria V. Dyagileva,^a Larisa K. Vasyanina,^a Konstantin A. Lyssenko,^b Mikhail Yu. Antipin,^b Dirk Weber,^c Ingmar Bauer,^c Wolf D. Habicher^c and Eduard E. Nifantsev^{a,*}

^aDepartment of Chemistry, Moscow Pedagogical State University, 3 Nesvizhski per., 119021 Moscow, Russian Federation

^bA.N. Nesmeyanov Institute of Organoelement Compounds, Russian Academy of Sciences, 28 ul. Vavilova, 117813 Moscow, Russian Federation

^cInstitute of Organic Chemistry, Dresden University of Technology, Mommsenstr. 13, D-01062 Dresden, Germany



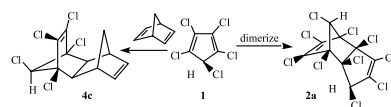
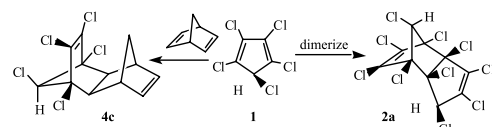
Experimental and theoretical studies of Diels–Alder dimerization of 1,2,3,4,5-pentachlorocyclopentadiene and of Diels–Alder cycloaddition of polychlorinated cyclopentadienes to norbornadiene

Tetrahedron 59 (2003) 1763

Alan P. Marchand,^{a,*} Bishwajit Ganguly,^a Carolina I. Malagón,^a Huiguo Lai^a and William H. Watson^{b,*}

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

^bDepartment of Chemistry, Texas Christian University, Fort Worth, TX 76203-8860, USA



Total synthesis of (+)-epiepoformin, (+)-epiepoxydon and (+)-bromoxone employing a useful chiral building block, ethyl (1R,2S)-5,5-ethylenedioxy-2-hydroxycyclohexanecarboxylate

Tetrahedron 59 (2003) 1773

Toru Tachihara^a and Takeshi Kitahara^{b,*}

^aTechnical Research Center, T. Hasegawa Co., Ltd., 335 Kariyado, Nakahara-ku, Kawasaki-shi, Kanagawa 211-0022, Japan

^bDepartment of Applied Biological Chemistry, Graduate School of Agricultural and Life Sciences, The University of Tokyo, 1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-8657, Japan



Nucleophilic addition reaction of aromatic compounds with α -chloroglycidates in the presence of Lewis acid

Tetrahedron 59 (2003) 1781

Jing-Rong Lin,^a Aidar T. Gubaidullin,^b Vakhid A. Mamedov^b and Sadao Tsuboi^{a,*}

^aDepartment of Environmental Chemistry and Materials, Faculty of Environmental Science and Technology, Okayama University, Tsushima, Okayama 700-8530, Japan

^bA. E. Arbuзов Institute of Organic and Physical Chemistry, Russian Academy of Science, Arbuzov str. 8, Kazan 420088, Russian Federation

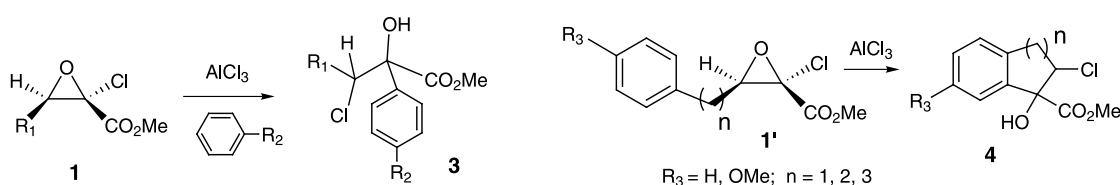
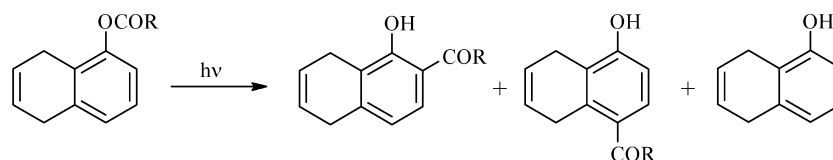


Photo-Fries and Fries reaction of 5,8-dihydro-1-naphthyl esters

Tetrahedron 59 (2003) 1791

Kamaraj Sriraghavan and Vayalakkavoor T. Ramakrishnan*

Department of Organic Chemistry, University of Madras, Guindy Campus, Chennai 600 025, India



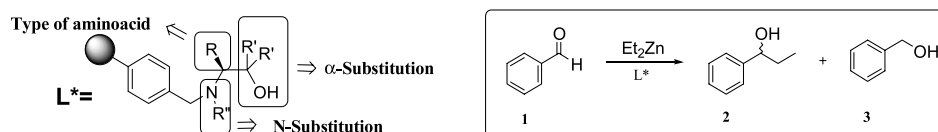
Development of small focused libraries of supported amino alcohols as an efficient strategy for the optimization of enantioselective heterogeneous catalysts for the ZnEt₂ addition to benzaldehyde

Tetrahedron 59 (2003) 1797

M. Isabel Burguete,^a Manuel Collado,^a Eduardo Garcia-Verdugo,^a María J. Vicent,^a Santiago V. Luis,^{a,*} Nikolai Graf von Keyserling^b and Jürgen Martens^{b,*}

^a*Departamento de Química Inorgánica y Orgánica, E.S.T.C.E., Universitat Jaume I, P.O. Box 224, E-12080 Castellón, Spain*

^b*Fachbereich Chemie, Universität Oldenburg, Carl-von-Ossietzky-Str 9-11, 26129 Oldenburg, Germany*

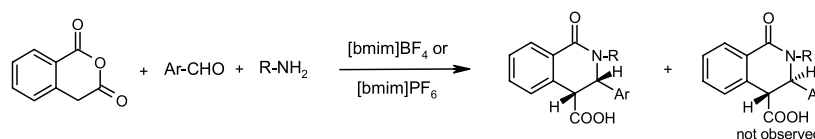


Room temperature ionic liquids promoted three-component coupling reactions: a facile synthesis of *cis*-isoquinolonic acids

Tetrahedron 59 (2003) 1805

J. S. Yadav,* B. V. S. Reddy, K. Saritha Raj and A. R. Prasad

Division of Organic Chemistry, Indian Institute of Chemical Technology, Hyderabad-500 007, India

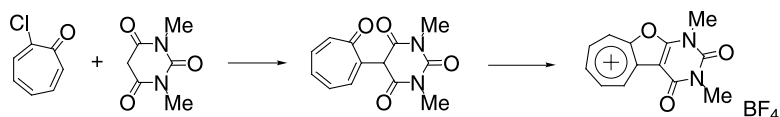


Novel synthesis and properties of 7,9-dimethylcyclohepta[b]-pyrimido[5,4-d]furan-8(7H),10(9H)-dionylium tetrafluoroborate: autorecycling oxidation of some alcohols under photo-irradiation

Tetrahedron 59 (2003) 1811

Shin-ichi Naya, Hisashi Miyama, Kenji Yasu, Tohru Takayasu and Makoto Nitta*

Department of Chemistry, School of Science and Engineering, Waseda University, Shinjuku-ku, Tokyo 169-8555, Japan



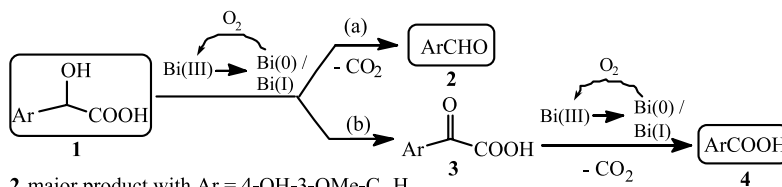
Oxidation of mandelic acid derivatives catalysed by Bi(0)/O₂ systems: mechanistic considerations

Tetrahedron 59 (2003) 1823

Isabelle Favier^a and Elisabet Duñach^{b,*}

^aLaboratoire Arômes Synthèses et Interactions, Université de Nice-Sophia Antipolis, Parc Valrose, 06108 Nice Cedex 2, France

^bLaboratoire de Chimie Bioorganique,
UMR CNRS 6001, Université de Nice-Sophia Antipolis,
06108 Nice Cedex 2, France



2 major product with Ar = 4-OH-3-OMe-C₆H₃

4 major product with Ar = C₆H₅; 4-CF₃-C₆H₄