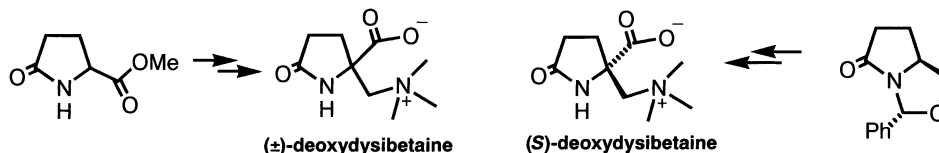


Concise syntheses of racemic and enantiopure deoxydysibetaine*Tetrahedron Letters 44 (2003) 5961*

Bao Khanh Le Nguyen and Nicole Langlois*

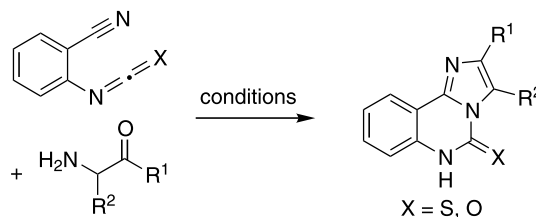
Institut de Chimie des Substances Naturelles, CNRS, Avenue de la Terrasse, 91198 Gif-sur-Yvette, France

Both racemic and enantiopure deoxydysibetaine have been synthesized in high yield from methyl pyroglutamate and (S)-pyroglutaminol, respectively.

**Sequential cyclizations of 2-isothiocyanatobenzonitrile and 2-isocyanatobenzonitrile with α -aminoketones***Tetrahedron Letters 44 (2003) 5965*

Peter Langer* and Anja Bodtke

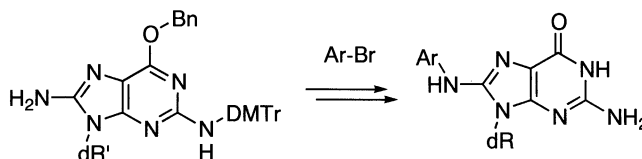
Institut für Chemie und Biochemie der Ernst-Moritz-Arndt-Universität Greifswald, Soldmannstr. 16, 17487 Greifswald, Germany

**A practical approach for the chemical synthesis of 2'-deoxyguanosine-C8 adducts with mutagenic/carcinogenic amino- or nitro-arenes***Tetrahedron Letters 44 (2003) 5969*

Takeji Takamura-Enya,^{a,*} Satoko Ishikawa,^b Masataka Mochizuki^b and Keiji Wakabayashi^a

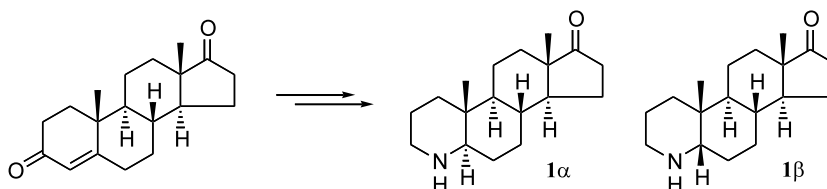
^a*Cancer Prevention Basic Research Project, National Cancer Center Research Institute, 1-1 Tsukiji 5-chome, Chuo-ku, Tokyo, Japan*

^b*Kyoritsu College of Pharmacy, 5-30 Shibakoen 1-chome, Minato-ku, Tokyo, Japan*

**Magnetic shielding effect of amine and ammonium groups obtained from proton chemical shifts of androstane derivatives***Tetrahedron Letters 44 (2003) 5975*

Hajime Iwamoto, Yoshiaki Kondo, Takefumi Kawatani, Takeharu Haino and Yoshimasa Fukazawa*

Department of Chemistry, Graduate School of Science, Hiroshima University, Higashi-Hiroshima 739-8526, Japan

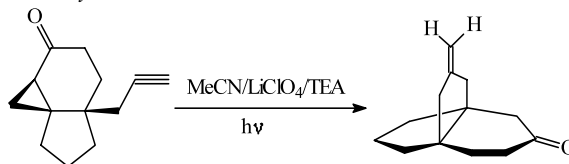


Reductive PET-fragmentation–cyclization processes of bicyclo[*n*.3.0]-alkanones: synthesis of angular quasi-triquinane and propellane systems

Nikolay Tzvetkov,^a Marc Schmidtman,^b Achim Müller^b and Jochen Mattay^{a,*}

^aOrganische Chemie I, Fakultät für Chemie, Universität Bielefeld, Postfach 100131, 33501 Bielefeld, Germany

^bAnorganische Chemie I, Abteilung für Röntgenstrukturanalyse, Fakultät für Chemie, Universität Bielefeld, Postfach 100131, 33501 Bielefeld, Germany



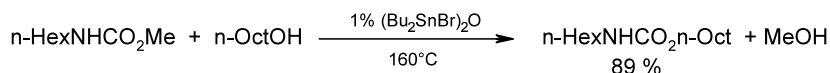
Investigations in the catalytic species of the distannoxane-catalyzed transcarbamylation

B. Jousseume,^{a,*} C. Laporte,^a T. Toupance^a and J. M. Bernard^b

^aLaboratoire de Chimie Organique et Organométallique, UMR 5802 CNRS, Université Bordeaux 1, 351, Cours de la Libération, F-33405 Talence Cedex, France

^bCentre de Recherche des Carrières, Rhodia, 85 avenue des Frères Perret, BP 62, 69192 Saint-Fons, France

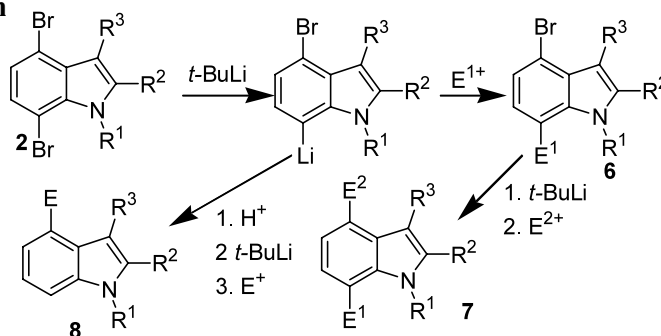
Dibromodistannoxane proves to be a very efficient catalyst in transcarbamylation reactions with aliphatic alcohols.



Synthesis of substituted indoles via a highly selective 7-lithiation of 4,7-dibromoindoles and the effect of indole-nitrogen on regioselectivity

Lianhai Li* and Andrew Martins

Department of Medicinal Chemistry, Merck Frosst Centre for Therapeutic Research, PO Box 1005, Pointe-Claire-Dorval, Quebec, Canada H9R 4P8

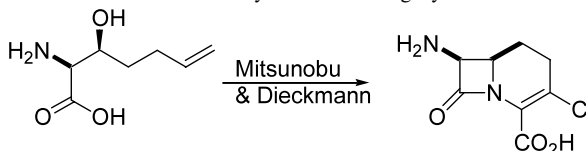


Enantioselective synthesis of the carbacephem antibiotic loracarbef via Mitsunobu and Dieckmann cyclization from an unnatural amino acid

Jerry W. Misner, Jack W. Fisher, John P. Gardner, Steve W. Pedersen, Kristina L. Trinkle, Billy G. Jackson and Tony Y. Zhang*

Chemical Process Research and Development, Lilly Research Laboratories, A Division of Eli Lilly and Company, Indianapolis, IN 46285-4813, USA

The bicyclic nucleus of the β -lactam antibiotic loracarbef was synthesized in high yield from a biochemically derived unnatural amino acid.



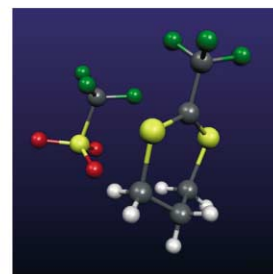
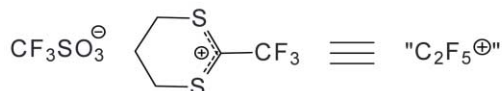
2-Trifluoromethyl-1,3-dithianylium triflate: a convenient 'masked' electrophilic pentafluoroethylation reagent

Tetrahedron Letters 44 (2003) 5995

Dmitri V. Sevenard,^{a,*} Peer Kirsch,^{b,*}
Enno Lork^a and Gerd-Volker Rösenthaller^a

^a*Institute of Inorganic and Physical Chemistry, University of Bremen, Leobener Str.,
28334 Bremen, Germany*

^b*Merck KGaA, Liquid Crystals Division, Frankfurter Str. 250, 64293 Darmstadt,
Germany*



Stabilisation of the type I β -turn conformation by a bicyclic analogue of proline

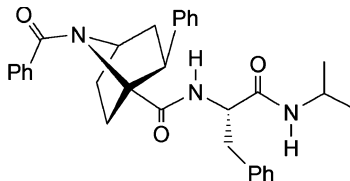
Tetrahedron Letters 44 (2003) 5999

Ana M. Gil,^a Elena Buñuel,^b Ana I. Jiménez^{a,*} and Carlos Cativiela^a

^a*Departamento de Química Orgánica, ICMA, Universidad de Zaragoza-CSIC, 50009 Zaragoza, Spain*

^b*Departamento de Química Orgánica, Universidad Autónoma de Madrid, 28049 Cantoblanco, Madrid, Spain*

A model dipeptide incorporating a constrained proline surrogate in position $i+1$ has been shown to accommodate a β I-turn in the crystalline state.

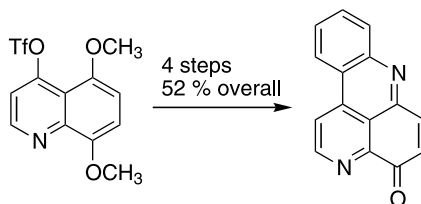


Efficient synthesis of the pyrido[2,3,4-*k*]acridin-4-one system common to several cytotoxic marine alkaloids

Tetrahedron Letters 44 (2003) 6003

Eva Pascual-Alfonso, Carmen Avendaño and J. Carlos Menéndez*

Departamento de Química Orgánica y Farmacéutica, Facultad de Farmacia, Universidad Complutense, 28040 Madrid, Spain



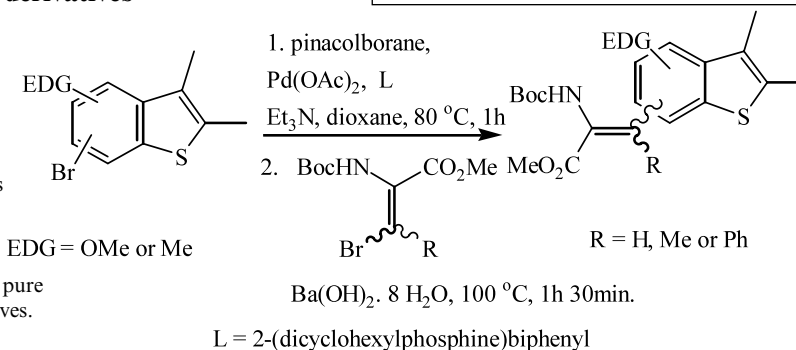
Palladium-catalyzed borylation and Suzuki coupling (BSC) to obtain β -substituted dehydroamino acid derivatives

Tetrahedron Letters 44 (2003) 6007

Ana S. Abreu, Natália O. Silva,
Paula M. T. Ferreira and
Maria-João R. P. Queiroz*

*Departamento de Química, Universidade do Minho,
Campus de Gualtar, 4710-057 Braga, Portugal*

Several benzo[*b*]thienyldehydroamino acid derivatives were prepared in moderate to good yields by palladium-catalyzed borylation and Suzuki coupling (BSC) from bromobenzo[*b*]thiophenes containing EDG groups (OMe or Me), as the component to be borylated with pinacolborane, and pure stereoisomers of β -bromodehydroamino acid derivatives.

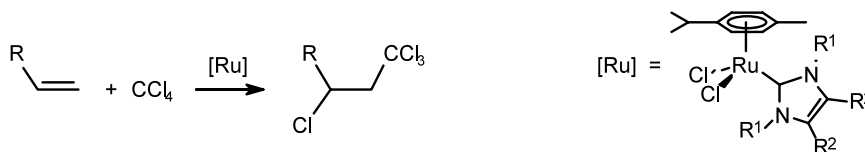


Ruthenium catalysts bearing *N*-heterocyclic carbene ligands in atom transfer radical reactions

Tetrahedron Letters 44 (2003) 6011

Aurore Richel, Sébastien Delfosse, Cédric Cremasco, Lionel Delaude, Albert Demonceau* and Alfred F. Noels

Laboratory of Macromolecular Chemistry and Organic Catalysis, University of Liège, Sart-Tilman (B.6a), B-4000 Liège, Belgium



Preparation of cruciferous phytoalexin related metabolites, (–)-dioxibassinin and (–)-3-cyanomethyl-3-hydroxyoxindole, and determination of their absolute configurations by vibrational circular dichroism (VCD)

Tetrahedron Letters 44 (2003) 6017

Kenji Monde,^{a,b,*} Tohru Taniguchi,^a Nobuaki Miura,^b Shin-Ichiro Nishimura,^{a,b} Nobuyuki Harada,^c Rina K. Dukor^d and Laurence A. Nafie^e

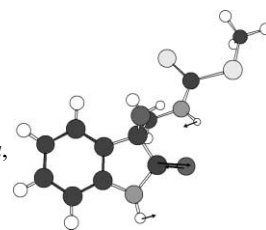
^a*Laboratory for Bio-Macromolecular Chemistry, Division of Biological Sciences, Graduate School of Science, Frontier Research Center for Post-genomic Science and Technology, Hokkaido University, Kita-ku, Sapporo 001-0021, Japan*

^b*Sapporo Laboratory for Glycocluster Project, Japan Bioindustry Association, Sapporo 001-0021, Japan*

^c*Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, 2-1-1 Katahira, Aoba, Sendai 980-8577, Japan*

^d*BioTools Inc., 950 N. Rand Road Unit, 123, Wauconda, IL 60084, USA*

^e*Department of Chemistry, Syracuse University, Syracuse, NY 13244-4100, USA*

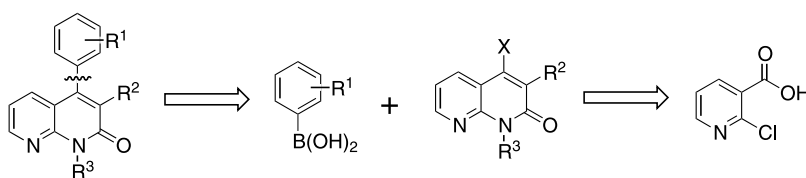


A convenient synthesis of 4-aryl-1,8-naphthyridin-2(1*H*)-ones by the Suzuki coupling

Tetrahedron Letters 44 (2003) 6021

Hitoshi Ban,* Masami Muraoka and Naohito Ohashi

Research Division, Sumitomo Pharmaceuticals Co. Ltd, 1-98, Kasugadenaka 3-chome, Konohana-ku, Osaka 554-0022, Japan



Zinc-catalyzed aminolysis of epoxides

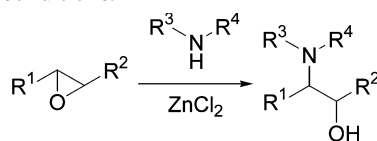
Tetrahedron Letters 44 (2003) 6025

Laura Durán Pachón, Patrick Gamez, Jos J. M. van Brussel and Jan Reedijk*

Leiden Institute of Chemistry, Gorlaeus Laboratories, Leiden University, PO Box 9502, 2300 RA Leiden, The Netherlands

Zinc-catalyzed nucleophilic addition of amines to epoxides leads to β -amino alcohols with a very high regioselectivity.

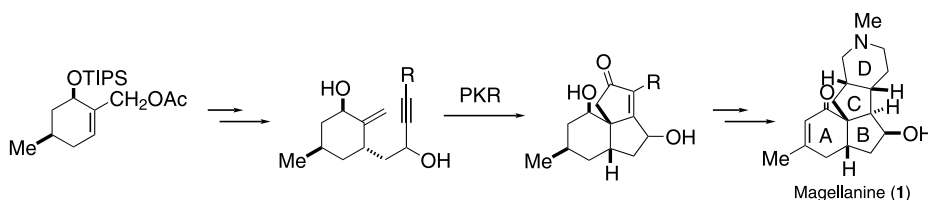
A series of compounds has been obtained with satisfactory to high yields, by reaction of different aliphatic or aromatic amines with various epoxides under aerobic conditions.



Tetrahedron Letters 44 (2003) 6029

Miyuki Ishizaki,* Yuka Niimi and Osamu Hoshino*

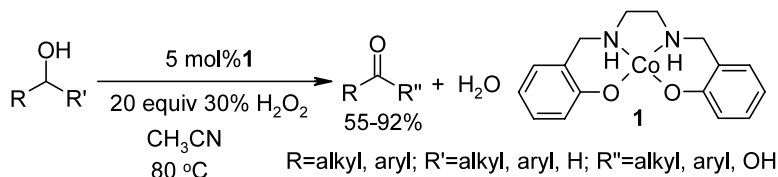
Faculty of Pharmaceutical Sciences, Tokyo University of Science, 2641, Yamazaki, Noda-shi, Chiba 278-8510, Japan



Tetrahedron Letters 44 (2003) 6033

Subhabrata Das and T. Punniyamurthy*

Department of Chemistry, Indian Institute of Technology Guwahati, Guwahati 781039, India

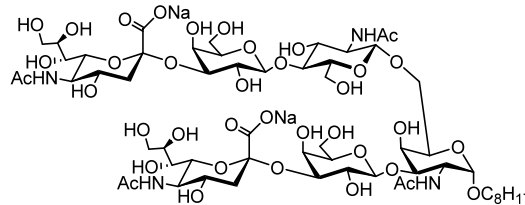


Tetrahedron Letters 44 (2003) 6037

Prabal Sengupta, Anup Kumar Misra,* Misa Suzuki, Minoru Fukuda and Ole Hindsgaul

The Burnham Institute, 10901 N. Torrey Pines Road, La Jolla, CA 92037, USA

A series of sialylated β -D-Gal-(1-3)- α -D-GalNAc-octyl containing oligosaccharides were synthesized by a chemoenzymatic approach for use in polysialyltransferase assays.

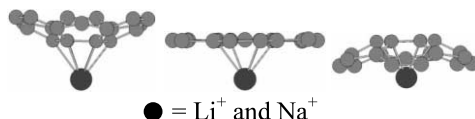


Tetrahedron Letters 44 (2003) 6043

U. Deva Priyakumar and G. Narahari Sastry*

Molecular Modelling Group, Organic Chemical Sciences, Indian Institute of Chemical Technology, Hyderabad 500 007 India

Metal ions bind strongly to both π -faces of buckybowls in comparison with benzene and the binding from the convex side is marginally preferred over the concave side.

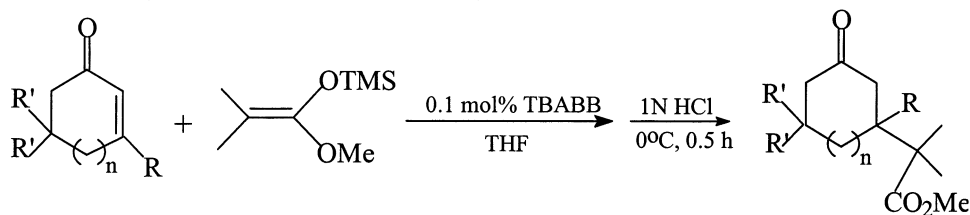


The Mukaiyama–Michael addition of a β,β -dimethyl substituted silyl ketene acetal to α,β -unsaturated ketones using tetra-*n*-butylammonium bibenzoate as a nucleophilic catalyst

Tetrahedron Letters 44 (2003) 6047

Rudhramyna Gnaneshwar, Prakash P. Wadgaonkar and Swaminathan Sivaram*

Division of Polymer Chemistry, National Chemical Laboratory, Pune 411008, India

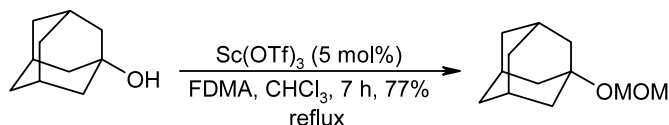


Scandium trifluoromethanesulfonate as a recyclable catalyst for efficient methoxymethylation of alcohols

Tetrahedron Letters 44 (2003) 6051

Babak Karimi* and Leyla Ma'mani

Department of Chemistry, Institute for Advanced Studies in Basic Sciences (IASBS), PO Box 45195-159, Gava Zang, Zanjan, Iran

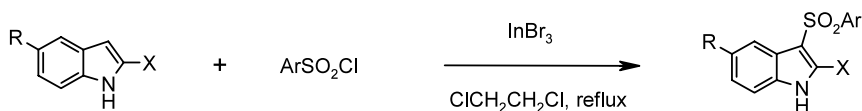


InBr₃-catalyzed sulfonation of indoles: a facile synthesis of 3-sulfonyl indoles

Tetrahedron Letters 44 (2003) 6055

J. S. Yadav,* B. V. S. Reddy, A. D. Krishna and T. Swamy

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

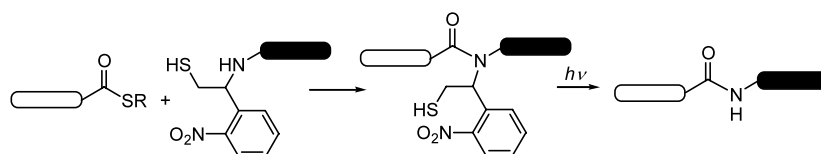


A photoremovable ligation auxiliary for use in polypeptide synthesis

Tetrahedron Letters 44 (2003) 6059

Toru Kawakami and Saburo Aimoto*

Institute for Protein Research, Osaka University, 3-2 Yamadaoka, Suita, Osaka 565-0871, Japan

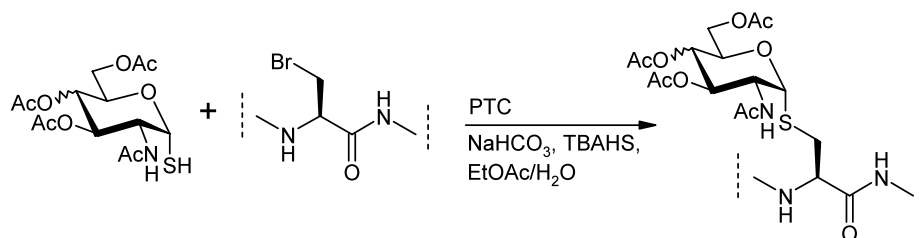


Synthesis of α -S-linked glycopeptides in water containing solution

Tetrahedron Letters 44 (2003) 6063

Xiangming Zhu and Richard R. Schmidt*

Fachbereich Chemie, Universität Konstanz, Fach M 725, D-78457 Konstanz, Germany



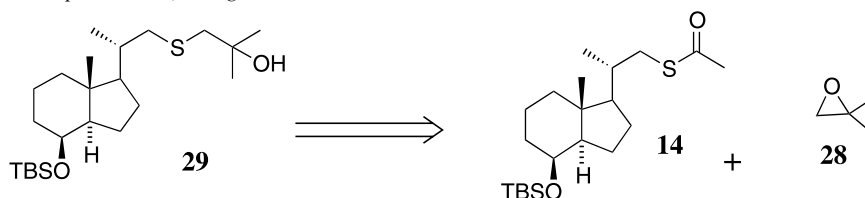
The thioacetate approach to the synthesis of the side chain of vitamin D metabolites and analogues

Tetrahedron Letters 44 (2003) 6069

Yagamare Fall,^{a,*} Ousmane Diouf,^b Generosa Gómez^a and Tamara Bolaño^a

^aDepartamento de Química Orgánica, Facultad de Ciencias, Universidad de Vigo, 36200 Vigo, Spain

^bLaboratoire de Chimie Inorganique, Departement de Chimie, Faculté des Sciences et Techniques, Université Cheikh Anta Diop de Dakar, Senegal



Synthesis of 2-substituted-benzothiazoles by palladium-catalyzed intramolecular cyclization of *o*-bromophenylthioureas and *o*-bromophenylthioamides

Tetrahedron Letters 44 (2003) 6073

Carolina Benedí,^a Fernando Bravo,^a Pedro Uriz,^b Elena Fernández,^b Carmen Claver^b and Sergio Castellón^{a,*}

^aDepartament de Química Analítica i Química Orgànica, Universitat Rovira i Virgili, Pl. Imperial Tàrraco 1, 43005 Tarragona, Spain

^bDepartament de Química Física i Inorgànica, Universitat Rovira i Virgili, Pl. Imperial Tàrraco 1, 43005 Tarragona, Spain

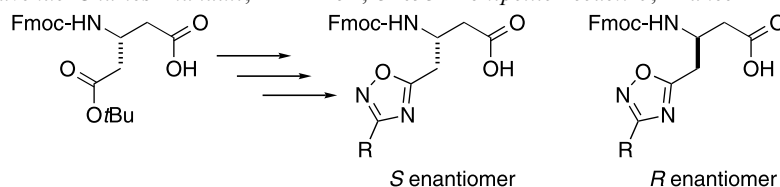


Synthesis of (*R*) and (*S*) enantiomers of Fmoc-protected 1,2,4-oxadiazole-containing β^3 -amino acids from Fmoc-(*R*)- β -HAsp(OrBu)-OH

Tetrahedron Letters 44 (2003) 6079

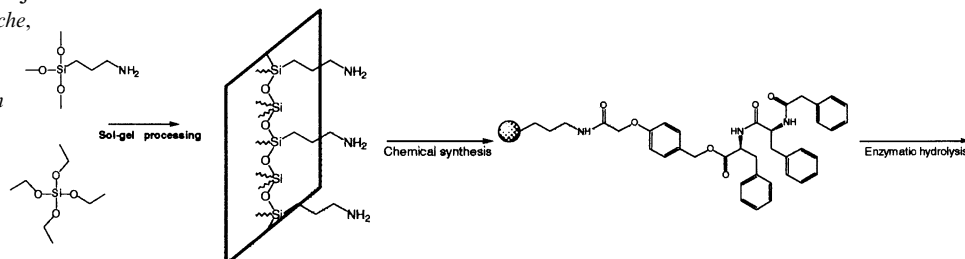
Abdallah Hamzé, Jean-François Hernandez* and Jean Martinez

Laboratoire des Aminoacides Peptides et Protéines, CNRS UMR 5810, Universités Montpellier I et II, Faculté de Pharmacie, 15 avenue Charles Flahault, BP 14491, 34093 Montpellier cedex 5, France



Organically modified xerogels as supports for solid-phase chemistry

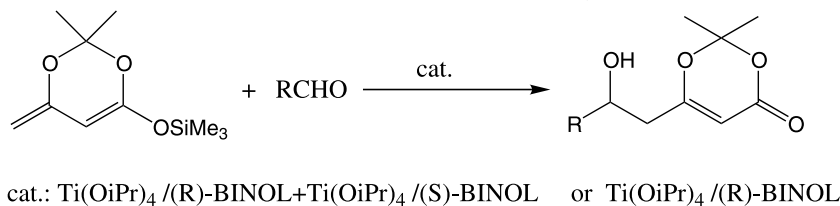
Tetrahedron Letters 44 (2003) 6083

Alessandra Basso,^a Luigi De Martin,^a Cynthia Ebert,^a Paolo Linda,^a Lucia Gardossi,^{a,*} Rein V. Ulijn^{b,*} and Sabine L. Flitsch^b^aDipartimento di Scienze Farmaceutiche,
Università degli Studi, Piazzale
Europa 1, 34127 Trieste, Italy^bSchool of Chemistry, The Edinburgh
Centre for Protein Technology,
The University of Edinburgh,
King's Buildings, West Mains Road,
Edinburgh EH9 3JJ, UK**Ti(IV)/BINOL-catalyzed asymmetric aldol reaction of a masked acetoacetic ester: pronounced influence of catalyst concentration on nonlinear effects**

Tetrahedron Letters 44 (2003) 6087

Margherita De Rosa, Maria Rosaria Acocella, Rosaria Villano, Annunziata Soriente and Arrigo Scettri*

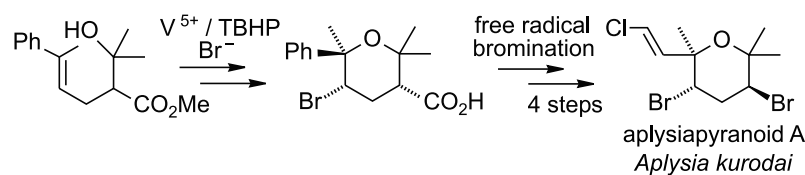
Dipartimento di Chimica, Università di Salerno, 84081 Baronissi (Salerno), Italy

**A new synthesis of the 2,2,3,5,6-substituted tetrahydropyran aplysiapyranoid A and its 5-epimer**

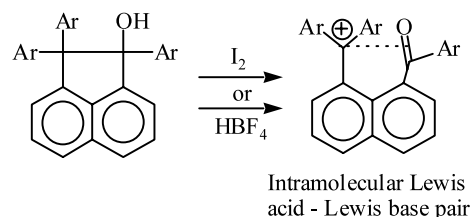
Tetrahedron Letters 44 (2003) 6091

Jens Hartung* and Marco Greb

Institut für Organische Chemie, Universität Würzburg, Am Hubland, D-97074 Würzburg, Germany

**Formation of keto-carbeniums from 1,2,2-triarylnaphthen-1-ols by breaking a long C–C bond: unusual alcohol protonolysis accompanied by formal hydride abstraction**

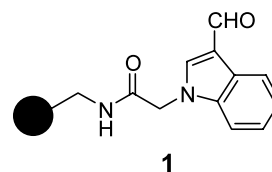
Tetrahedron Letters 44 (2003) 6095

Takanori Suzuki,* Takayuki Nagasu, Hidetoshi Kawai,
Kenshu Fujiwara and Takashi TsujiDivision of Chemistry, Graduate School of Science, Hokkaido University,
Sapporo 060-0810, JapanTreatment of the title alcohol with HBF₄ gave the carbenium dye,
whose X-ray analysis shows the intramolecular π -complexation
between the *peri*-substituents.

Expedient synthesis of secondary amines bound to indole resin and cleavage of resin-bound urea, amide and sulfonamide under mild conditions

Sukanta Bhattacharyya,* Owen W. Gooding and Jeff Labadie
Argonaut Technologies, 1101 Chess Drive, Foster City, CA 94404, USA

New protocols for the expedient, high-yielding reductive amination of indole aldehyde resin and mild cleavage conditions for the release of urea, amide and sulfonamide products are reported.



β -Cyano *meso*-unsubstituted porphyrins for intramolecular charge transfer

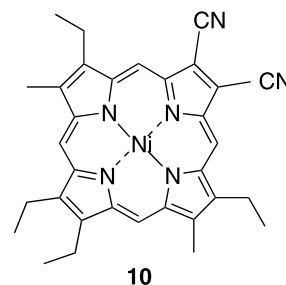
Olivier Siri^{a,b} and Kevin M. Smith^{a,c,*}

^aDepartment of Chemistry, University of California, Davis, CA 95616, USA

^bLaboratoire de Chimie de Coordination, Université Louis Pasteur, F-67070 Strasbourg, France

^cDepartment of Chemistry, Louisiana State University, Baton Rouge, LA 70803, USA

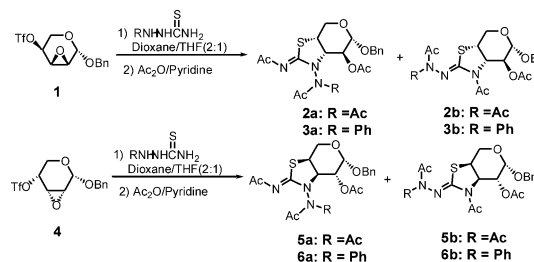
New porphyrin **10** shows a charge transfer interaction between electron acceptor and donor groups in the β -positions.



An efficient approach to the synthesis of tri-substituted iminothiazolidenes and their effects on the human neuroblastoma cell line

Muhammad Saeed, Muhammad Abbas, Angelica Heinrich and Wolfgang Voelter*

Abteilung für Physikalische Biochemie des Physiologisch-chemischen Instituts der Universität Tübingen, Hoppe-Seyler-Strasse 4, D-72076 Tübingen, Germany

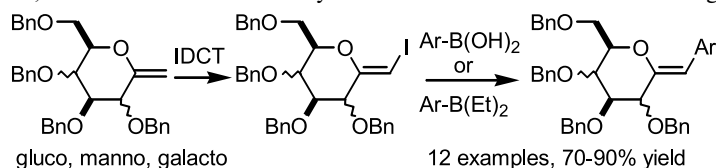


Stereoselective synthesis of substituted *exo*-glycols from 1-*exo*-methylene pyranoses

Ana M. Gómez,* Ana Pedregosa, Serafín Valverde and J. Cristóbal López*

Instituto de Química Orgánica General, CSIC, Juan de la Cierva 3, 28006 Madrid, Spain

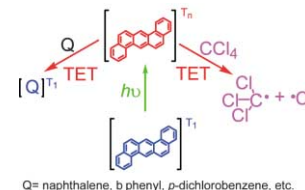
Suzuki, or B-alkyl Suzuki cross-coupling of halo-*exo*-glycols (of the *gluco*-, *manno*- and *galacto*- series), readily prepared from 1-*exo* methylene pyranoses, with boronic acids or alkyl boranes furnished substituted *exo*-glycols in good yields.



Some triplet energy-transfer reactions initiated by photoexcitation of triplet excited state of dibenz[*a,h*]anthracene to the higher triplet excited states

Xichen Cai, Michihiro Hara, Kiyohiko Kawai, Sachiko Tojo, Mamoru Fujitsuka and Tetsuro Majima*

The Institute of Scientific and Industrial Research (SANKEN), Osaka University, Mihogaoka 8-1, Ibaraki, Osaka 567-0047, Japan



Some triplet energy-transfer (TET) reactions initiated by photoexcitation of the triplet excited state of dibenz[*a,h*]anthracene (DBA(T_1)) to the higher triplet excited states (DBA(T_n)) with quenchers (Q).

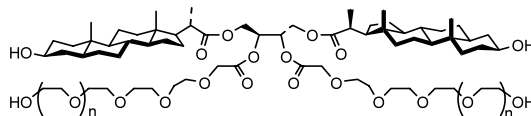
C_2 -symmetrical sterol–polyether conjugates as highly efficient synthetic ionophores

Elvira Avallone,^a Irene Izzo,^a Gerardo Vuolo,^a Monica Costabile,^a Davide Garrisi,^b Lucia Pasquato,^c Paolo Scrimin,^b Paolo Tecilla^{c,*} and Francesco De Riccardis^{a,*}

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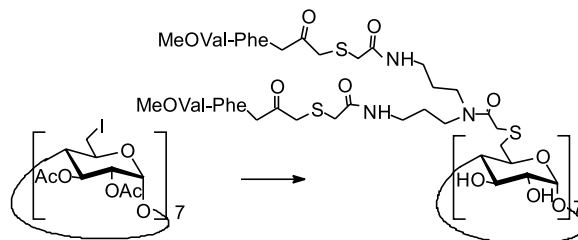


Synthesis of peptide dendrimers based on a β -cyclodextrin core with guest binding ability

Abdullah M. A. Muhanna,^a Emilia Ortiz-Salmerón,^b Luis García-Fuentes,^b Juan J. Giménez-Martínez^a and Antonio Vargas-Berenguel^{a,*}

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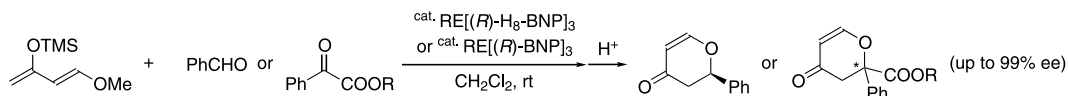


Highly enantioselective homogeneous catalysis of chiral rare earth phosphates in the hetero-Diels–Alder reaction

Hiroshi Furuno,^a Takeshi Kambara,^b Yumiko Tanaka,^a Takeshi Hanamoto,^a Takumi Kagawa^b and Junji Inanaga^{a,*}

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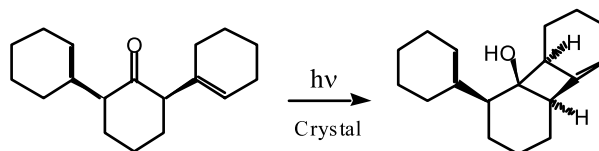


H-abstraction prevails over α -cleavage in the solution and solid state photochemistry of *cis*-2,6-di(1-cyclohexenyl)cyclohexanone

Tetrahedron Letters 44 (2003) 6133

Christopher J. Mortko, Hung Dang, Luis M. Campos and Miguel A. García-Garibay*

Department of Chemistry, University of California, Los Angeles, CA 90095-1569, USA



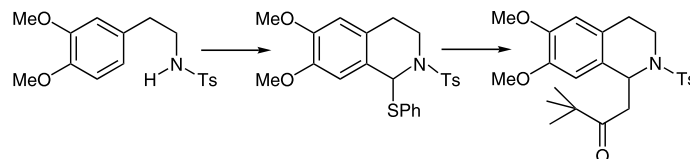
Thioorthoesters in the activated Pictet–Spengler cyclization. Synthesis of 1-thiosubstituted tetrahydroisoquinolines and carbon–carbon bond formation via sulfonyl iminium ions generated from *N,S*-sulfonyl acetals

Tetrahedron Letters 44 (2003) 6137

Claudio C. Silveira,^{a,*} Carmem R. Bernardi,^a Antonio L. Braga^a and Teodoro S. Kaufman^{b,*}

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^bInstituto de Química Orgánica de Síntesis (CONICET-UNR), Suipacha 531, (S2002LRK) Rosario, Argentina

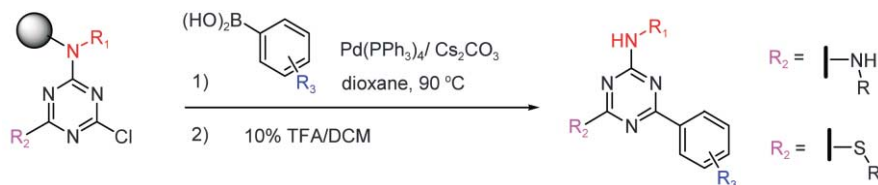


Palladium-catalyzed cross-coupling reaction of resin-bound chlorotriazines

Tetrahedron Letters 44 (2003) 6141

Jacqueline T. Bork, Jae Wook Lee and Young-Tae Chang*

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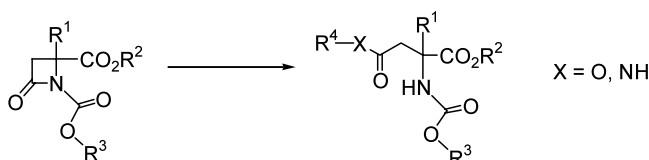


Easy access to orthogonally protected α -alkyl aspartic acid and α -alkyl asparagine derivatives by controlled opening of β -lactams

Tetrahedron Letters 44 (2003) 6145

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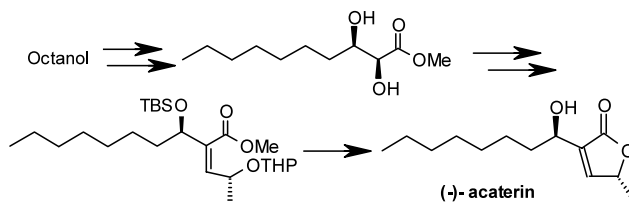


Asymmetric synthesis of (–)-acaterin

Tetrahedron Letters 44 (2003) 6149

Subba Rao V. Kandula and Pradeep Kumar*

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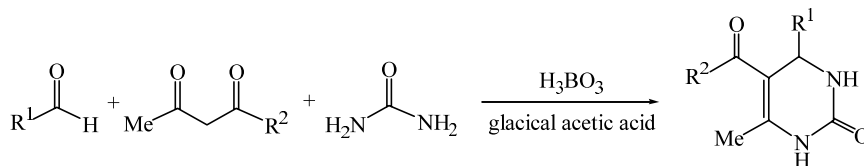


One-pot synthesis of 3,4-dihydropyrimidin-2(1H)-ones using boric acid as catalyst

Tetrahedron Letters 44 (2003) 6153

Shujang Tu,* Fang Fang, Chunbao Miao, Hong Jiang, Youjian Feng, Daqing Shi and Xiangshan Wang

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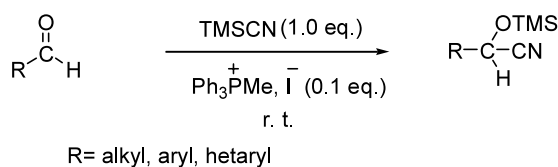


Methyltriphenylphosphonium iodide catalyzes the addition of trimethylsilyl cyanide to aldehydes

Tetrahedron Letters 44 (2003) 6157

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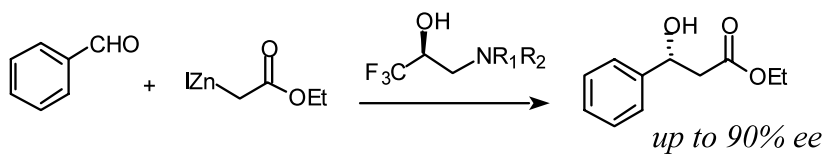


Trifluoromethylated amino alcohols as chiral ligands for highly enantioselective Reformatsky reaction

Tetrahedron Letters 44 (2003) 6161

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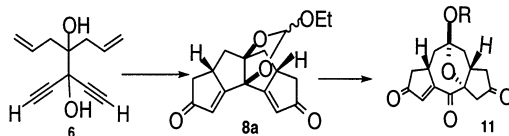


Studies on the Rh and Ir mediated tandem Pauson–Khand reaction. A new entry into the dicyclopenta[a,d]cyclooctene ring system

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A highly stereoselective tandem Pauson–Khand reaction has been developed by employing Rh or Ir catalysts. A novel entry into the dicyclopenta[a,d]cyclooctene ring system has also been developed.



Et₃B-induced radical addition of diphenylphosphine oxide to unsaturated compounds

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Diphenylphosphine oxide is quantitatively added at rt to various unsaturated compounds by catalytic amounts of Et₃B, without side-reactions.

