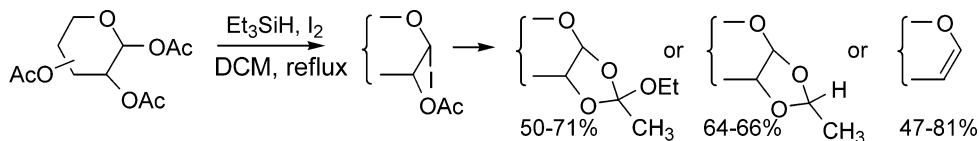


Efficient and direct synthesis of saccharidic 1,2-ethylidenes, orthoesters, and glycols from peracetylated sugars via the in situ generation of glycosyl iodides with I_2/Et_3SiH

Tetrahedron Letters 44 (2003) 7863

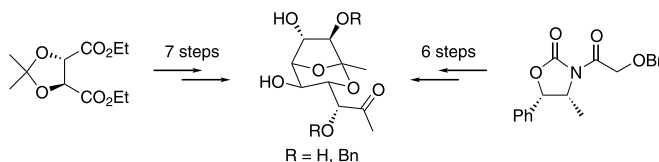
Matteo Adinolfi, Alfonso Iadonisi,* Alessandra Ravidà and Marialuisa Schiattarella

Dipartimento di Chimica Organica e Biochimica, Università degli Studi di Napoli Federico II, Via Cynthia 4, I-80126 Napoli, Italy



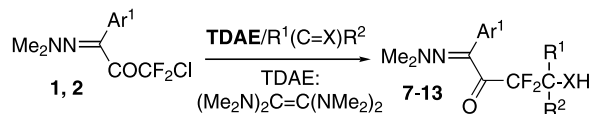
A symmetry-based approach to the heterobicyclic core of the zaragozic acids—model studies in the C_2 -symmetric series

Tetrahedron Letters 44 (2003) 7867

Anja Bierstedt,^a Jochen Roels,^a Junliang Zhang,^a Yuzhou Wang,^a Roland Fröhlich^b and Peter Metz^{a,*}^aInstitut für Organische Chemie, Technische Universität Dresden, Bergstraße 66, D-01069 Dresden, Germany^bOrganisch-Chemisches Institut, Universität Münster, Corrensstraße 40, D-48149 Münster, Germany

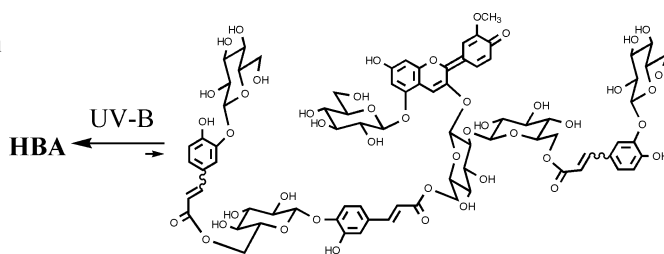
Fluorinated hydrazones. Part 1: Reductive coupling reactions of chlorodifluoroacetylated dialkylhydrazones using tetrakis-(dimethylamino)ethylene (TDAE)

Tetrahedron Letters 44 (2003) 7871

Maurice Médebielle,^{a,*} Katsuya Kato^b and William R. Dolbier, Jr.^c^aUniversité Claude Bernard-Lyon 1, Laboratoire SERCOF (UMR CNRS 5622), Bâtiment E. Chevreul, 43, Bd du 11 novembre 1918, F-69622 Villeurbanne, France^bAIST Chubu, National Institute of Advanced Industrial Science and Technology (AIST), 2266-98 Anagahora, Shimoshidami, Moriyama-ku, Nagoya 463-8560, Japan^cUniversity of Florida, Department of Chemistry, Gainesville, FL 32611-7200, USAA series of α -diketone derived *gem*-difluorinated mono-hydrazones was prepared in moderate to good yields by reaction of chlorodifluoroacetylated dialkylhydrazones with various electrophiles in the presence of TDAE.

A UV-B resistant polyacylated anthocyanin, HBA, from blue petals of morning glory

Tetrahedron Letters 44 (2003) 7875

Kumi Yoshida,^{a,*} Mihoko Mori,^b Miki Kawachi,^b Reiko Okuno,^c Kiyoshi Kameda^c and Tadao Kondo^d^aGraduate School of Information Science, Nagoya University, Chikusa, Nagoya 464-8601, Japan^bGraduate School of Human Informatics, Nagoya University, Chikusa, Nagoya 464-8601, Japan^cSchool of Life Studies, Sugiya Jogakuen University, Chikusa, Nagoya 464-8662, Japan^dGraduate School of Bioagricultural Sciences, Nagoya University, Chikusa, Nagoya 464-8601, Japan

HBA in physiological condition was more tolerant against UV-B than in strong acidic media.

4,7-Bis(dimethylamino)benzimidazoles and twin-type derivatives: reversible two-stage redox system modulated by proton-transfer

Tetrahedron Letters 44 (2003) 7881

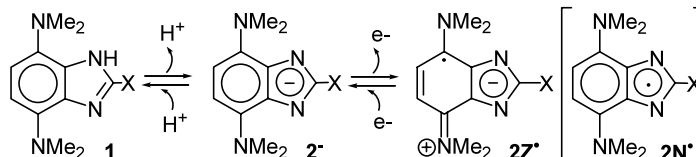
Takanori Suzuki,^{a,*} Yoshiaki Tsubata,^b Yoshiaki Obana,^b Takanori Fukushima,^b Tsutomu Miyashi,^b Mayu Saito,^a Hidetoshi Kawai,^a Kenshu Fujiwara^a and Kimio Akiyama^c

^aDivision of Chemistry, Graduate School of Science, Hokkaido University, Sapporo 060-0810, Japan

^bDepartment of Chemistry, Graduate School of Science, Tohoku University, Sendai 980-8578, Japan

^cInstitute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai 980-8577, Japan

The title compounds are strong electron donors, and not only neutral **1** but also the conjugate base **2⁻** undergo reversible two-stage one-electron oxidation. ESR analysis showed that radical **2[•]** adopts zwitterionic form **2Z[•]** rather than neutral radical form **2N[•]**.

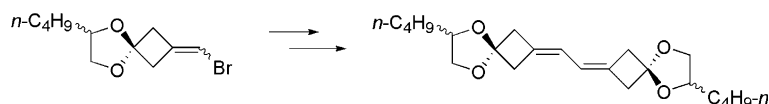


Synthesis of a dicyclobutylideneethane derivative via sequential palladium-catalyzed Miyaura borylation and Suzuki coupling

Tetrahedron Letters 44 (2003) 7885

George W. Kabalka* and Min-Liang Yao

Departments of Chemistry and Radiology, The University of Tennessee, Knoxville, TN 37996-1600, USA



Highly efficient chemical fixations of carbon dioxide and carbon disulfide by cycloaddition to aziridine under atmospheric pressure

Tetrahedron Letters 44 (2003) 7889

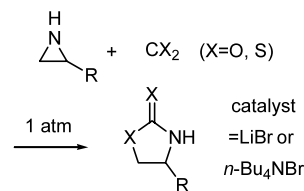
Atsushi Sudo,^a Yosuke Morioka,^b Eri Koizumi,^b Fumio Sanda^c and Takeshi Endo^{d,*}

^aMolecular Engineering Institute, Kinki University, 11-6 Kayanomori, Iizuka, Fukuoka 820-8555, Japan

^bChemical Resources Laboratory, Tokyo Institute of Technology, Nagatsuta-cho 4259, Midori-ku, Yokohama 226-8503, Japan

^cDepartment of Polymer Chemistry, Graduate School of Engineering, Kyoto University, Yoshida-honmachi, Sakyo-ku, Kyoto 606-8501, Japan

^dDepartment of Polymer Science and Engineering, Faculty of Engineering, Yamagata University, Jonan, Yonezawa, Yamagata 992-8510, Japan

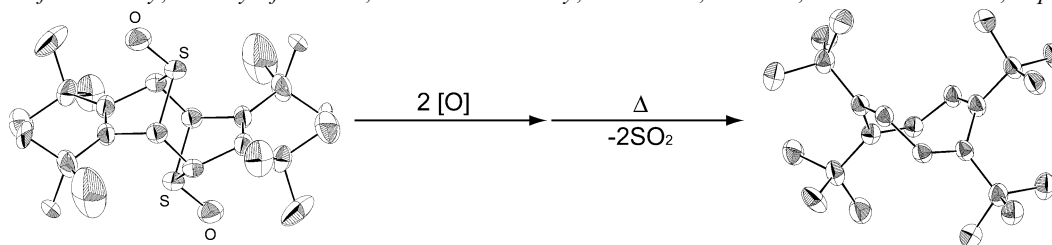


Preparation of 1,4,5,8-tetra-*tert*-butyl-1,3,5,7-cyclooctatetraene by twofold SO₂ extrusion

Tetrahedron Letters 44 (2003) 7893

Jun Takayama, Yoshiaki Sugihara, Akihiko Ishii and Juzo Nakayama*

Department of Chemistry, Faculty of Science, Saitama University, Sakura-ku, Saitama, Saitama 338-8570, Japan

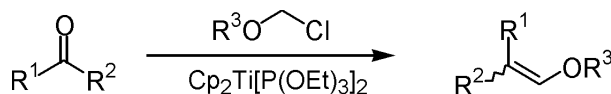


Preparation of enol ethers by carbonyl olefination utilizing an alkoxymethyl chloride–titanocene(II) system

Tetrahedron Letters 44 (2003) 7897

Takeshi Takeda,* Tomohiro Shono, Kenji Ito, Hironori Sasaki and Akira Tsubouchi

Department of Applied Chemistry, Tokyo University of Agriculture and Technology, Koganei, Tokyo 184-8588, Japan

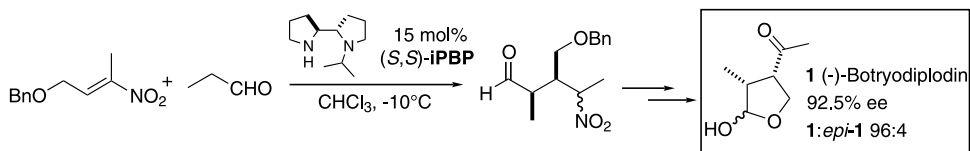


Organocatalytic Michael addition, a convenient tool in total synthesis. First asymmetric synthesis of (–)-botryodiplodin

Tetrahedron Letters 44 (2003) 7901

Olivier Andrey, Annick Vidonne and Alexandre Alexakis*

University of Geneva, Department of Organic Chemistry, 30 Quai Ernest Ansermet, CH-1211, Geneva, Switzerland



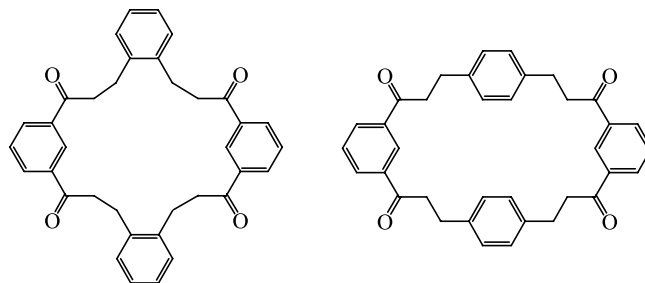
Macrocycles from simple building blocks by a multifold Heck-type coupling reaction

Tetrahedron Letters 44 (2003) 7905

Gerald Dyker,^{a,*} Daniel Kadzimirsz^a and Gerald Henkel^b

^a*Fakultät für Chemie, Ruhr-Universität Bochum, Universitätsstraße 150, D-44780 Bochum, Germany*

^b*Fachbereich 13-Chemie und Chemietechnik, Universität Paderborn, Warburger Str. 100, 33098 Paderborn, Germany*



Diiodobenzenes and bisallylic alcohols lead to macrocyclic 2:2 products; the 1:1 products are disfavoured as medium sized rings.

Asymmetric synthesis of passifloricin A: a correction in structure

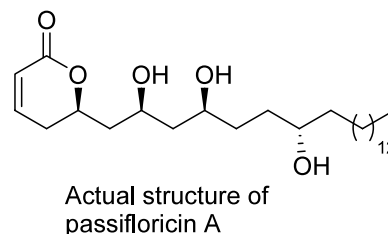
Tetrahedron Letters 44 (2003) 7909

Juan Murga,^{a,*} Jorge García-Fortanet,^a Miguel Carda^a and J. Alberto Marco^{b,*}

^a*Depart. de Q. Inorgánica y Orgánica, Univ. Jaume I, Castellón, E-12080 Castellón, Spain*

^b*Depart. de Q. Orgánica, Univ. de Valencia, E-46100 Burjassot, Valencia, Spain*

The actual structure of passifloricin A, a naturally occurring lactone isolated from *Passiflora foetida*, has been unambiguously established by means of an asymmetric synthesis through a synthetic sequence which included asymmetric allylboration and a ring-closing olefin metathesis.

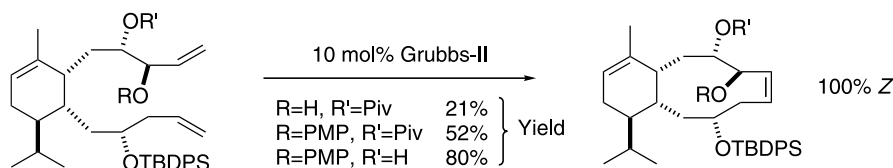


Effects of allylic and homoallylic substituents on the ring closing metathesis reaction used to synthesise simplified eleuthesides

Tetrahedron Letters 44 (2003) 7913

Lorenzo Caggiano, Damiano Castoldi, Raphael Beumer, Pau Bayón, Joachim Telser and Cesare Gennari*

Dipartimento di Chimica Organica e Industriale, Centro di Eccellenza C.I.S.I., Università di Milano, Istituto CNR di Scienze e Tecnologie Molecolari, via Venezian 21, I-20133 Milano, Italy

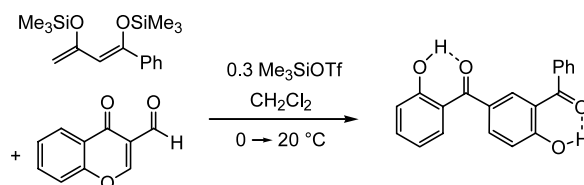


Domino 'Michael-retro-Michael-aldol' reactions of 1,3-bis-silyl enol ethers with 3-formylchromones

Tetrahedron Letters 44 (2003) 7921

Peter Langer* and Bettina Appel

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



Novel selenium containing non-detergent sulphotetaines

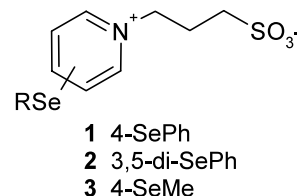
Tetrahedron Letters 44 (2003) 7925

Martyn Frederickson,^{a,b,*} Laurent Vuillard^b and Chris Abell^a

^aUniversity Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW, UK

^bAstex Technology, 436 Cambridge Science Park, Milton Road, Cambridge CB4 0QA, UK

The first selenium containing non-detergent sulphotetaines are described. They have been prepared in multi-gram quantities from readily available pyridyl precursors. Incorporation of selenium was achieved using nucleophilic selenide anions. The resulting products were shown by ⁷⁷Se NMR spectroscopy to be homogeneous with respect to the selenium oxidation state.



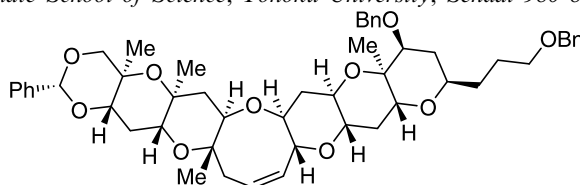
Convergent synthesis of the F–K ring segment of brevetoxin B

Tetrahedron Letters 44 (2003) 7929

Isao Kadota,^{a,*} Naoko Nishina,^b Hiroki Nishii,^b Shigetoshi Kikuchi^b and Yoshinori Yamamoto^{b,*}

^aResearch Center for Sustainable Materials Engineering, Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai 980-8578, Japan

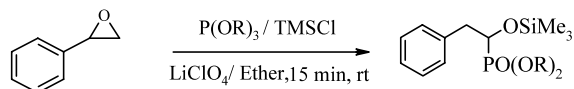
^bDepartment of Chemistry, Graduate School of Science, Tohoku University, Sendai 980-8578, Japan



A novel procedure for conversion of epoxides to α -hydroxyphosphonates with a trialkylphosphite mediated by LiClO_4

Najmoddin Azizi and Mohammad R. Saidi*

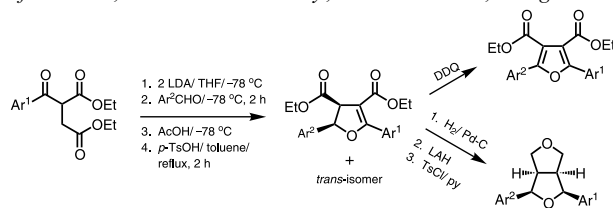
Department of Chemistry, Sharif University of Technology, PO Box 11365-9516 Tehran, Iran



Vicinal dianions of diethyl α -aroylsuccinates: preparation of functionalized-2,3-dihydrofurans and -furans, and diaxial 2,4-diaryl-3,7-dioxabicyclo[3.3.0]octanes

Manat Pohmakotr,* Arisara Issaree, Laddawan Sampaongoen, Patoomratana Tuchinda and Vichai Reutrakul

Department of Chemistry, Faculty of Science, Mahidol University, Rama 6 Road, Bangkok 10400, Thailand



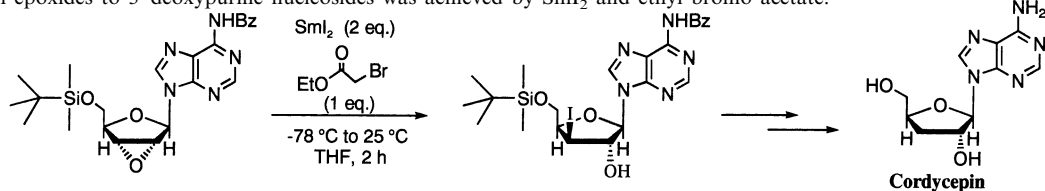
New synthesis of 3'-deoxypurine nucleosides using samarium(III) iodide complex

Doo Won Kwon,^a Jae-Ho Jeon,^b Changwon Kang^{b,*} and Yong Hae Kim^{a,*}

^aDepartment of Chemistry and Center for Molecular Design and Synthesis, Korea Advanced Institute of Science and Technology, Daejeon 305-701, Republic of Korea

^bDepartment of Biological Sciences, Korea Advanced Institute of Science and Technology, Daejeon 305-701, Republic of Korea

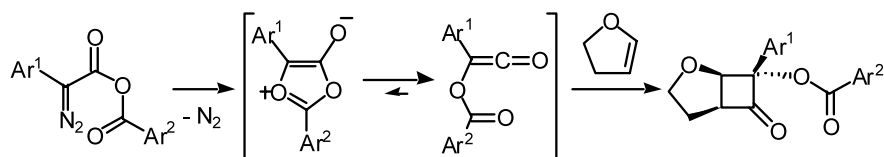
A new route from epoxides to 3'-deoxypurine nucleosides was achieved by SmI_2 and ethyl bromo acetate.



Fast ring opening of unstable mesoionic 1,3-dioxolylum-4-olates to acyloxyketenes: formation of [2+2] cycloadducts of acyloxyketene with several ketenophiles

Masashi Hamaguchi,* Naoki Tomida, Eiko Mochizuki and Takumi Oshima

Department of Materials Chemistry, Graduate School of Engineering, Osaka University, Toyonaka 560-0043, Japan

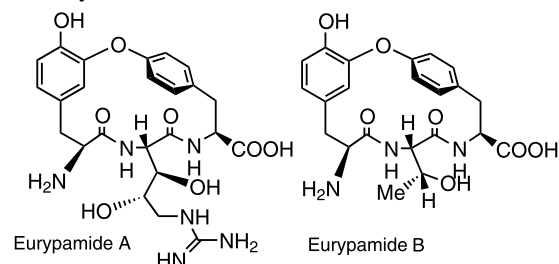


Synthesis and structural revision of eurypamides isolated from the Palauan sponge *Microciona eurypa*

Tetrahedron Letters 44 (2003) 7949

Miyuki Ito, Maki Yamanaka, Noriki Kutsumura and Shigeru Nishiyama*

Department of Chemistry, Faculty of Science and Technology,
Keio University, Hiyoshi 3-14-1, Kohoku-ku,
Yokohama 223-8522, Japan



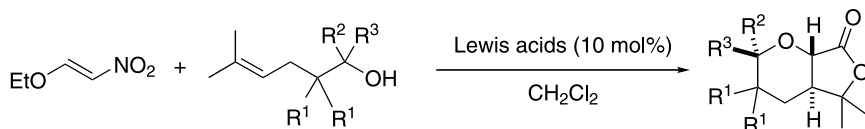
A new methodology of intramolecular hetero Diels–Alder reaction with β -alkoxy-substituted conjugated nitroalkenes as heterodienes: stereoselective one-pot synthesis of *trans*-fused bicyclic γ -lactones

Tetrahedron Letters 44 (2003) 7953

Eiji Wada^{a,*} and Masahiko Yoshinaga^b

^aInstitute for Materials Chemistry and Engineering, Kyushu University, 6-1 Kasugakoen, Kasuga 816-8580, Japan

^bDepartment of Molecular and Material Science, Graduate School of Engineering Sciences, Kyushu University, 6-1 Kasugakoen, Kasuga 816-8580, Japan

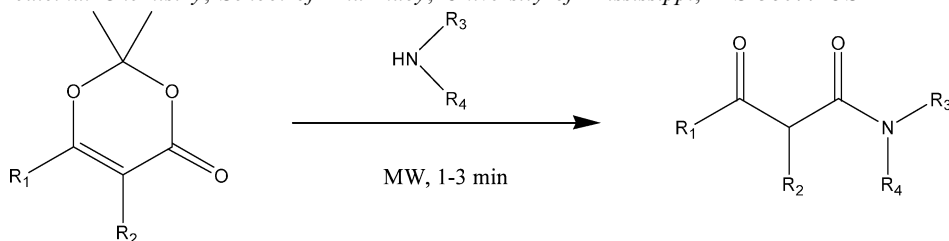


An efficient and rapid synthesis of β -carboxamide derivatives using 2,2-dimethyl-2*H*,4*H*-1,3-dioxin-4-ones by microwave irradiation

Tetrahedron Letters 44 (2003) 7957

Bruhaspathy Miriyala and John S. Williamson*

Department of Medicinal Chemistry, School of Pharmacy, University of Mississippi, MS 38677 USA



Reaction of 1,2-*trans*-glycosyl acetates with thiourea: a new entry to 1-thiosugars

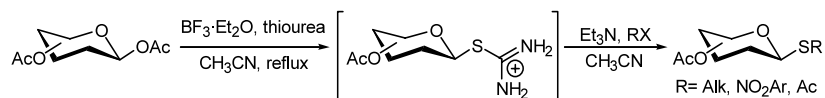
Tetrahedron Letters 44 (2003) 7961

Farid M. Ibatullin,^{a,*} Konstantin A. Shabalin,^a Janne V. Jänis^b and Alexander G. Shavva^c

^aMolecular and Radiation Biophysics Division, Petersburg Nuclear Physics Institute, Gatchina 188300, Russia

^bDepartment of Chemistry, University of Joensuu, Joensuu, Finland

^cChemical Department of Petersburg State University, St.-Petersburg, Russia



Mechanism of asymmetric sulfimidation with *N*-alkoxycarbonyl azide in the presence of (OC)Ru(salen) complex

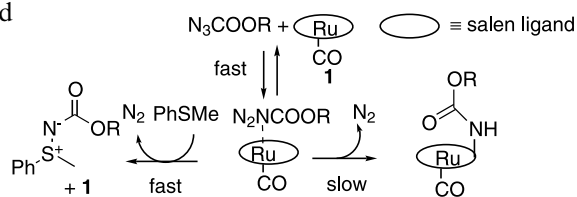
Tetrahedron Letters 44 (2003) 7965

Tatsuya Uchida,^{a,b} Yuusuke Tamura,^{a,b} Masaaki Ohba^a and Tsutomu Katsuki^{a,b,*}

^aDepartment of Chemistry, Faculty of Science, Graduate School, Kyushu University 33, Hakozaki, Higashi-ku, Fukuoka 812-8581, Japan

^bCREST, Japan Science and Technology (JST), Japan

Reaction of Ru(salen) and *N*-alkoxycarbonyl azide was demonstrated to give a Ru–azide adduct that underwent sulfimidation in the presence of sulfides, but the adduct underwent intramolecular C–H amination in the absence of sulfides.



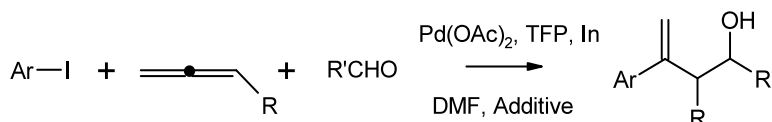
Additive effects in palladium–indium mediated Barbier type allylations

Tetrahedron Letters 44 (2003) 7969

Laura A. T. Cleghorn,^a Ian R. Cooper,^a Ronald Grigg,^{a,*} William S. MacLachlan^b and Visuvanathar Sridharan^a

^aMolecular Innovation, Diversity and Automated Synthesis (MIDAS) Centre, Department of Chemistry, University of Leeds, Leeds LS2 9JT, UK

^bGlaxoSmithKline, New Frontiers Science Park (North), 3rd Avenue, Harlow, Essex CM19 5AW, UK



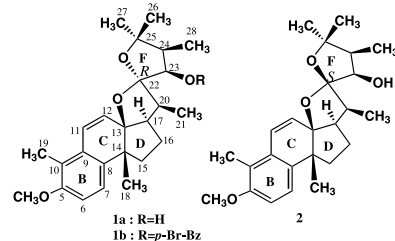
Agariblazeispirols A and B, an unprecedented skeleton from the cultured mycelia of the fungus, *Agaricus blazei*

Tetrahedron Letters 44 (2003) 7975

Masao Hirotani,^{a,*} Seiko Hirotani,^a Hiroaki Takayanagi,^a Kanki Komiyama^b and Takafumi Yoshikawa^a

^aSchool of Pharmaceutical Sciences, Kitasato University, Minato-ku, Tokyo 108-8641, Japan

^bThe Kitasato Institute, Minato-ku, Tokyo 108-8641, Japan

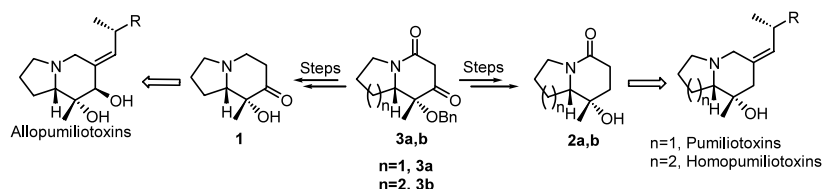


A general and efficient route to enantioselective synthesis of pumiliotoxin A alkaloids via a common key intermediate

Tetrahedron Letters 44 (2003) 7981

Bing Wang, Kai Fang and Guo-Qiang Lin*

Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Road, Shanghai 200032, PR China



Wittig reaction of glycosyl phosphonium salts: a stereoselective route to C-disaccharides and C,O-trisaccharides

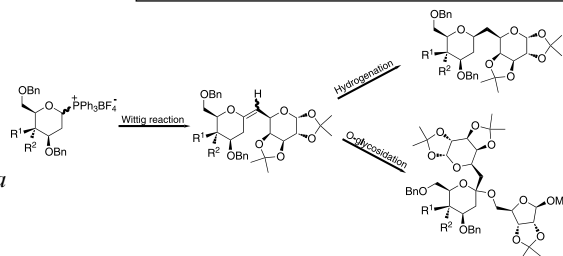
Tetrahedron Letters 44 (2003) 7985

Pedro A. Colinas,^{a,*} Agustín Ponzinibbio,^a
Albrecht Lieberknecht^{a,b} and Rodolfo D. Bravo^{a,*}

^aLaboratorio de Estudio de Compuestos Orgánicos, Departamento de Química, Facultad de Ciencias Exactas, Universidad Nacional de La Plata, 47 y 115, 1900 La Plata, Argentina

^bInstitut für Organische Chemie der Universität Stuttgart, Pfaffenwaldring 55, D-70569 Stuttgart, Germany

C-Disaccharides and C,O-trisaccharides, with a quaternary anomeric center, were prepared in good yields and excellent stereoselectivity by a route involving the Wittig reaction of glycosyl phosphonium salts and hydrogenation or glycosidation of *exo*-glycals as key steps.



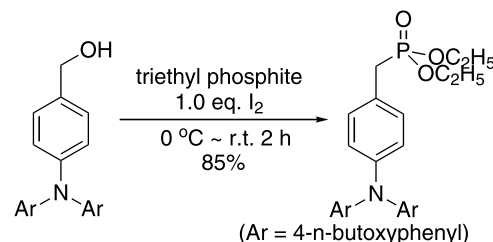
A convenient method for the synthesis of electron-rich phosphonates

Tetrahedron Letters 44 (2003) 7989

Shijun Zheng, Stephen Barlow, Timothy C. Parker and Seth R. Marder*

Department of Chemistry, University of Arizona, Tucson, AZ 85721-0041, USA

Very electron-rich benzylic-type phosphonates can be prepared by treating the corresponding alcohols in triethyl phosphite with one equivalent of iodine at an appropriate temperature in a general one-pot process.

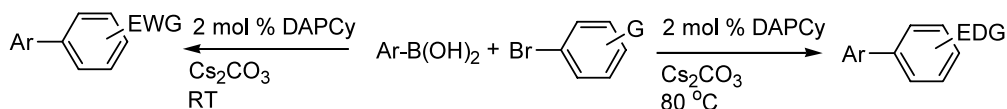


trans-Pd(OAc)₂(Cy₂NH)₂ catalyzed Suzuki coupling reactions and its temperature-dependent activities toward aryl bromides

Tetrahedron Letters 44 (2003) 7993

Bin Tao and David W. Boykin*

Department of Chemistry, Georgia State University, University Plaza, Atlanta, GA 30303, USA



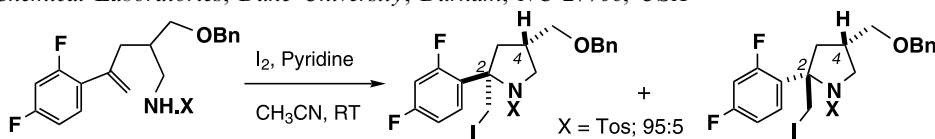
A highly stereoselective approach to novel 2,2,4-trisubstituted pyrrolidines by halocyclization: key intermediates towards syntheses of nitrogen analogs of Noxafil®

Tetrahedron Letters 44 (2003) 7997

Jinping L. McCormick,^a Rebecca Osterman,^a Tze-Ming Chan,^a Pradip R. Das,^a Birendra N. Pramanik,^a Ashit K. Ganguly,^a Viyyoor M. Girijavallabhan,^a Andrew T. McPhail^b and Anil K. Saksena*

^aSchering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033, USA

^bPaul M. Gross Chemical Laboratories, Duke University, Durham, NC 27706, USA



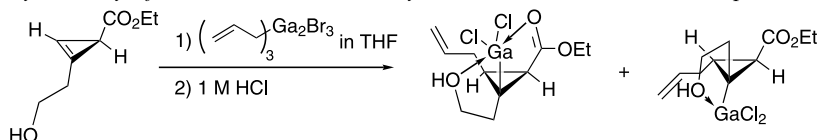
Allylgallation of cyclopropenes. Crystal structure of a novel cyclopropylgallium compound prepared by allylgallation of hydroxy-bearing cyclopropene

Tetrahedron Letters 44 (2003) 8001

Shuki Araki,^{a,*} Takashi Tanaka,^a Tsunehisa Hirashita^a and Jun-ichiro Setsune^b

^a*Omohi College, Graduate School of Engineering, Nagoya Institute of Technology, Gokiso-cho, Showa-ku, Nagoya 466-8555, Japan*

^b*Department of Chemistry, Faculty of Science, Kobe University, Nada-ku, Kobe 657-8501, Japan*



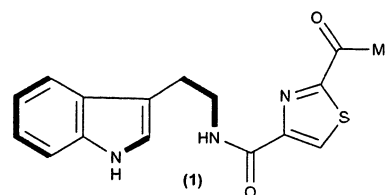
Bacillamide, a novel algicide from the marine bacterium, *Bacillus* sp. SY-1, against the harmful dinoflagellate, *Cochlodinium polykrikoides*

Tetrahedron Letters 44 (2003) 8005

Seong-Yun Jeong, Keishi Ishida, Yusai Ito, Shigeru Okada* and Masahiro Murakami

Laboratory of Marine Biochemistry, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Bunkyo-ku, Tokyo 113-8657, Japan

Structure of bacillamide (1) was elucidated by FABMS and 2D NMR analyses including ¹H–¹⁵N HMBC.



Novel fluorescent isoquinoline pigments, panaefluorolines A–C from the cultured mycobiont of a lichen, *Amygdalaria panaeola*

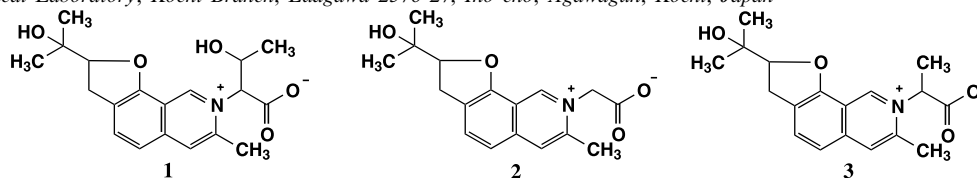
Tetrahedron Letters 44 (2003) 8009

Kaoru Kinoshita,^a Yoshikazu Yamamoto,^b Kiyotaka Koyama,^a Kunio Takahashi^{a,*} and Isao Yoshimura^c

^a*Department of Pharmacognosy and Phytochemistry, Meiji Pharmaceutical University, Noshio 2-522-1, Kiyose-shi, Tokyo 204-8588, Japan*

^b*Department of Biological Production Science, Faculty of Bioresource Sciences, Akita Prefectural University, 241-7, Kaidobata-nishi, Shimoshinjo-nakano, Akita 010-0195, Japan*

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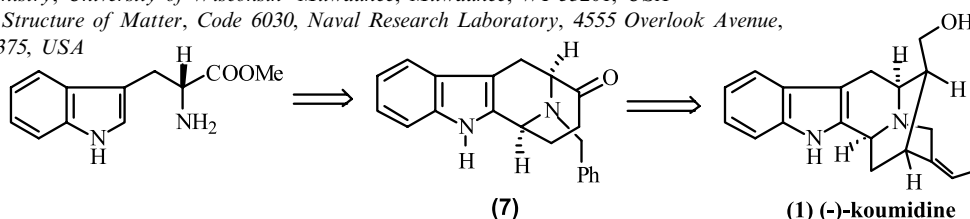
The first enantiospecific synthesis of (–)-koumidine via the intramolecular palladium-catalyzed enolate driven cross coupling reaction. The stereospecific introduction of the 19-(Z) ethylidene side chain

Tetrahedron Letters 44 (2003) 8013

Hui Cao,^a Jianming Yu,^a Xiangyu Z. Wearing,^a Chunchun Zhang,^a Xiaoxiang Liu,^a Jeffery Deschamps^b and James M. Cook^{a,*}

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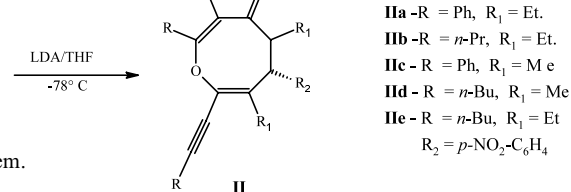
A novel method for the synthesis of 5,6-dihydro-4*H*-oxocin-4-ones: 6-*endo*-dig versus 8-*endo*-dig cyclizations

Tetrahedron Letters 44 (2003) 8019

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The condensation of substituted α -keto alkynes with *p*-nitrobenzaldehyde in the presence of lithium diisopropylamide (LDA) affords highly substituted 5,6-dihydro-4*H*-oxocin-4-ones in good yields. Surprisingly, no six-membered carbocycles were formed in this 8-*endo*-dig cyclization to the oxocinone system.

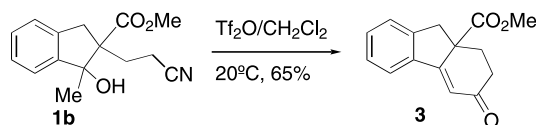


An unexpected result in an intramolecular Ritter reaction induced by triflic anhydride

Tetrahedron Letters 44 (2003) 8023

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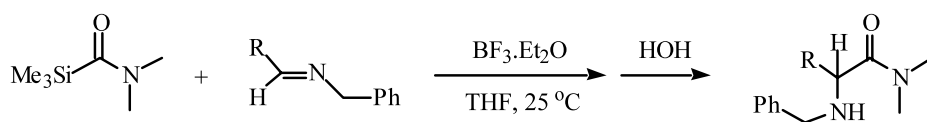


α -Aminoamides from a carbamoylsilane and aldehyde imines

Tetrahedron Letters 44 (2003) 8025

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Photodynamic activities of a dicationic silicon(IV) phthalocyanine and its bovine serum albumin conjugates

Tetrahedron Letters 44 (2003) 8029

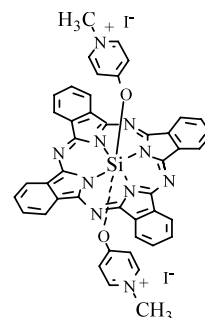
Jian-Dong Huang,^{a,b} Wing-Ping Fong,^{c,*} Elaine Y. M. Chan,^c Michael T. M. Choi,^a Wing-Kin Chan,^a Man-Chor Chan^a and Dennis K. P. Ng^{a,*}

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The dicationic bis(4-*N*-methylpyridiniumoxy)phthalocyaninosilicon(IV) has been synthesised and examined for its photodynamic activities towards HepG2 and J774 cancer cell lines; the photocytotoxicity is greatly enhanced by complexation with bovine serum albumin.



A convenient one-pot synthesis of homoallylic halides and 1,3-butadienes

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An efficient and convenient one-pot synthetic pathway for the preparation of homoallylic halides and 1,3-butadienes from in situ generated cyclopropylcarbinyl acetates has been established.

