

Graphical abstracts

Palladium-catalysed reactions in solid phase organic synthesis

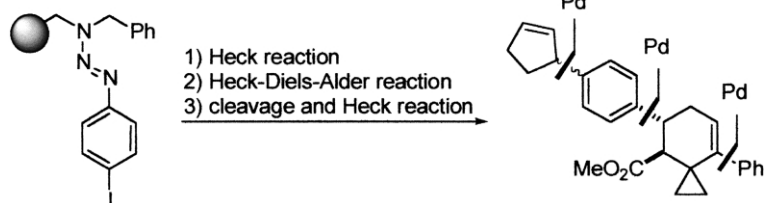
Tetrahedron 59 (2003) 885

Stefan Bräse,^{a,*} Jan H. Kirchhoff^b and Johannes Köbberling^c

^aKekulé-Institut für Organische Chemie und Biochemie der Rheinischen Friedrich-Wilhelms-Universität Bonn, Gerhard-Domagk-Strasse 1, D-53121 Bonn, Germany

^bClariant GmbH, Business Unit Pharmaceuticals, Frankfurt, Germany

^cBayer AG, Pharma Research, Wuppertal, Germany



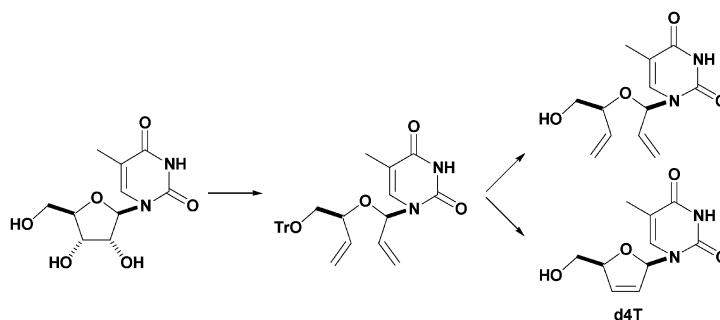
Synthesis of acyclic bis-vinyl pyrimidines: a general route to d4T via metathesis

Tetrahedron 59 (2003) 941

D. F. Ewing,^a V. Glaçon,^a G. Mackenzie,^a D. Postel^b and C. Len^{b,*}

^aCentre for Biological and Organic Chemistry, University of Hull, Hull, HU6 7RX, UK

^bLaboratoire des Glucides, Université de Picardie-Jules Verne, 33, rue saint Leu, F-80039 Amiens, France

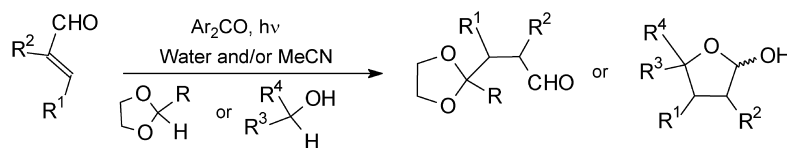


A convenient route to 1,4-monoprotected dialdehydes, 1,4-ketoaldehydes, γ -lactols and γ -lactones through radical alkylation of α,β -unsaturated aldehydes in organic and organic-aqueous media

Tetrahedron 59 (2003) 947

Daniele Dondi, Ilaria Caprioli, Maurizio Fagnoni,^{*} Mariella Mella and Angelo Albini

Dipartimento di Chimica Organica, Università, V. Taramelli 10, 27100 Pavia, Italy



First total synthesis of heterocurvistone

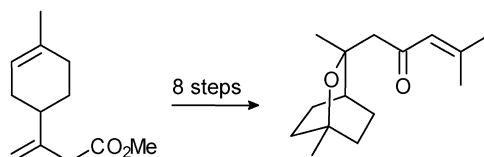
Tetrahedron 59 (2003) 959

Margarita B. Villecco,^a César A. N. Catalán^b and Pedro Joseph-Nathan^{a,*}

^aDepartamento de Química, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Apartado 14-740, Mexico D.F. 07000, Mexico

^bFacultad de Bioquímica, Química y Farmacia, Instituto de Química Orgánica, Universidad Nacional de Tucumán, Ayacucho 471, San Miguel de Tucumán 4000, Argentina

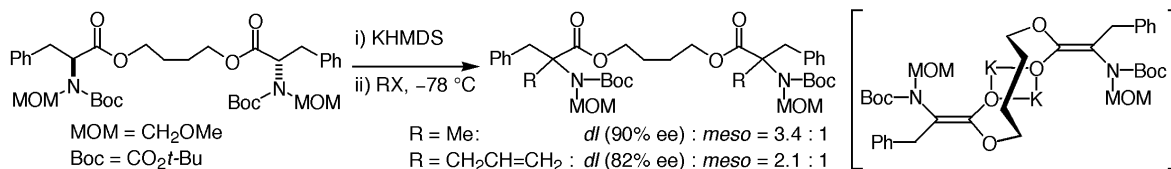
The synthesis was accomplished in 8 steps and 12% overall yield.



Control of the enantioselectivity of alkylation of phenylalanine derivatives by regulation of the aggregate structure of chiral enolate intermediates

Tetrahedron 59 (2003) 965

Takeo Kawabata,* Shin-pei Kawakami, Shoko Shimada and Kaoru Fuji
Institute for Chemical Research, Kyoto University, Uji, Kyoto 611-0011, Japan



Synthesis of diarylamines in the benzo[*b*]thiophene series bearing electron donating or withdrawing groups by Buchwald–Hartwig C–N coupling

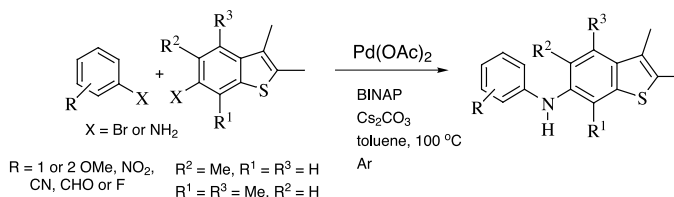
Tetrahedron 59 (2003) 975

Isabel C. F. R. Ferreira,^a Maria-João R. P. Queiroz^{a,*} and Gilbert Kirsch^b

^aDepartamento de Química, Universidade do Minho, 4710-057 Braga, Portugal

^bLaboratoire d'Ingénierie Moléculaire et Biochimie

Pharmacologique, Université de Metz, Faculté des Sciences, Ile du Saulcy, 57045 Metz, France



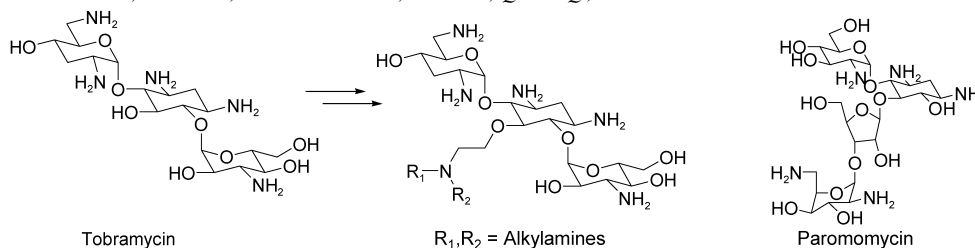
Tobramycin analogues with C-5 aminoalkyl ether chains intended to mimic rings III and IV of paromomycin

Tetrahedron 59 (2003) 983

Stephen Hanessian,^{a,*} Martin Tremblay^a and Eric E. Swayze^b

^aDepartment of Chemistry, Université de Montréal, C.P. 6128, Succ. Centre-Ville, Montréal, Que. P.Q., Canada H3C 3J7

^bIbis Therapeutics,
2292 Faraday Av.,
Carlsbad, CA 92008, USA



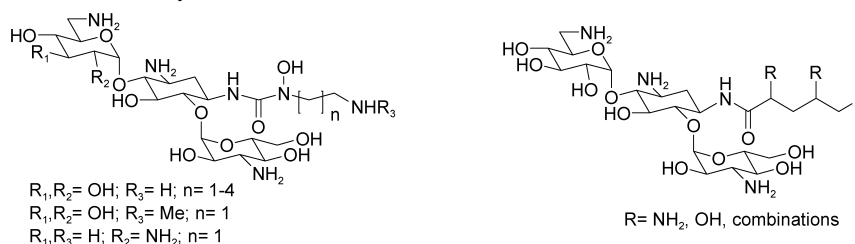
Probing the functional requirements of the L-haba side-chain of amikacin—synthesis, 16S A-site rRNA binding, and antibacterial activity

Tetrahedron 59 (2003) 995

Stephen Hanessian,^{a,*} Alexander Kornienko^a and Eric E. Swayze^b

^aDepartment of Chemistry, Université de Montréal, C.P. 6128, Succ. Centre-Ville, Montréal, Que., P.Q., Canada H3C 3J7

^bIbis Therapeutics, 2292 Faraday Av.,
Carlsbad, CA 92008, USA



PhI=NSes mediated aziridination of 11-pregnane derivatives: synthesis of an 11,12-aziridino analogue of neuroactive steroids

Tetrahedron 59 (2003) 1009

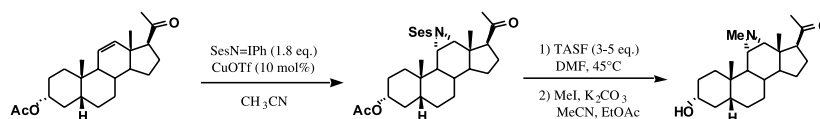
Pablo H. Di Chenna,^a Philippe Dauban,^b Alberto Ghini,^a Ricardo Baggio,^c Maria Teresa Garland,^d Gerardo Burton^a and Robert H. Dodd^{b,*}

^aDepartamento de Química Orgánica, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Buenos Aires, Argentina

^bInstitut de Chimie des Substances Naturelles, CNRS, 91198 Gif-sur-Yvette cedex, France

^cDepartamento de Física, Comisión Nacional de Energía Atómica, Av. del Libertador 8250, C1429 Buenos Aires, Argentina

^dDepartamento de Física, Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile, Av. Blanco Encalada 2008, Casilla 487-3 Santiago, Chile



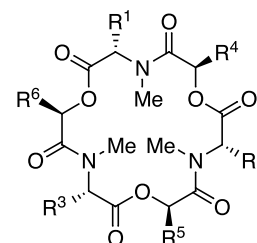
Unusual enniatins produced by the insect pathogenic fungus *Verticillium hemipterigenum*: isolation and studies on precursor-directed biosynthesis

Tetrahedron 59 (2003) 1015

Chongdee Nilanonta,^a Masahiko Isaka,^{b,*} Rachada Chanphen,^b Nuntawan Thong-orn,^b Morakot Tanticharoen^b and Yodhathai Thebtaranonth^b

^aDepartment of Chemistry, Prince of Songkla University, Songkhla 90112, Thailand

^bNational Center for Genetic Engineering and Biotechnology (BIOTEC), 113 Phaholyothin Road, Klong 1, Klong Luang, Pathumthani 12120, Thailand



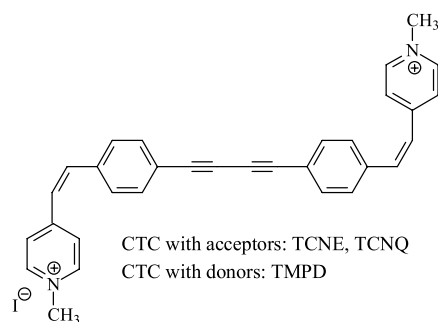
R¹, R², R³ = i-Pr, i-Bu
R⁴, R⁵, R⁶ = i-Pr, s-Bu

π -Extended conjugate phenylacetylenes. Synthesis of 4-[(*E*) and (*Z*)-2-(4-ethenylphenyl)ethenyl]pyridine. Dimerization, quaternation and formation of charge-transfer complexes

Tetrahedron 59 (2003) 1021

J. Gonzalo Rodríguez,^{*} Rosa Martín-Villamil and Antonio Lafuente

Departamento de Química Orgánica, Universidad Autónoma de Madrid, Cantoblanco, 28049-Madrid, Spain



CTC with acceptors: TCNE, TCNQ
CTC with donors: TMPD

Studies of the reactions between indole-2,3-diones (isatins) and 2-aminobenzylamine

Tetrahedron 59 (2003) 1033

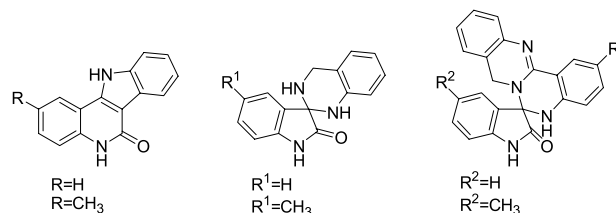
Jan Bergman,^{a,b,*} Robert Engqvist,^a Claes Stålhandske^c and Hans Wallberg^d

^aUnit for Organic Chemistry, CNT, Department of Biosciences at Novum, Karolinska Institute, Novum Research Park, SE-141 57 Huddinge, Sweden

^bSödertörn University College, SE-141 04 Huddinge, Sweden

^cDepartment of Inorganic Chemistry 2, Chemical Centre, Box 124, SE-221 00 Lund, Sweden

^dDepartment of Organic Chemistry, Royal Institute of Technology, SE-100 44 Stockholm, Sweden

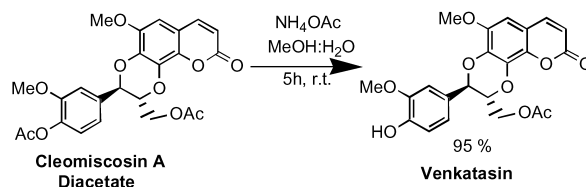


A mild, highly selective and remarkably easy procedure for deprotection of aromatic acetates using ammonium acetate as a neutral catalyst in aqueous medium

Tetrahedron 59 (2003) 1049

C. Ramesh, G. Mahender, N. Ravindranath and Biswanath Das*

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

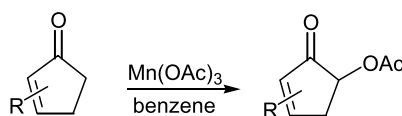


Manganese(III) acetate promoted acetoxylation of various α,β -unsaturated cyclopentanones

Tetrahedron 59 (2003) 1055

Cihangir Tanyeli,* Ayşegül Tosun, Engin Turkut and Bengü Sezen

Department of Chemistry, Middle East Technical University, 06531 Ankara, Turkey



Ring-opening and recyclization of 3,4-diacylfuroxans by nitrogen nucleophiles

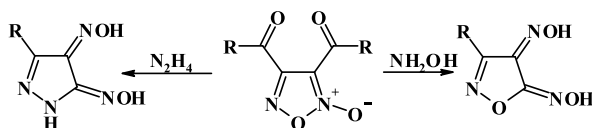
Tetrahedron 59 (2003) 1059

S. D. Shaposhnikov,^a S. V. Pirogov,^a S. F. Mel'nikova,^{a,*} I. V. Tselinsky,^a C. Näther,^b T. Graening,^c T. Traulsen^c and W. Friedrichsen^c

^a*St.-Petersburg State Institute of Technology (technical university), St.-Petersburg 198013, Russian Federation*

^b*Institute of Inorganic Chemistry, University of Kiel, Kiel D-24118, Germany*

^c*Institute of Organic Chemistry, University of Kiel, Kiel D-24118, Germany*



Zooxanthellamide A, a novel polyhydroxy metabolite from a marine dinoflagellate of *Symbiodinium* sp.

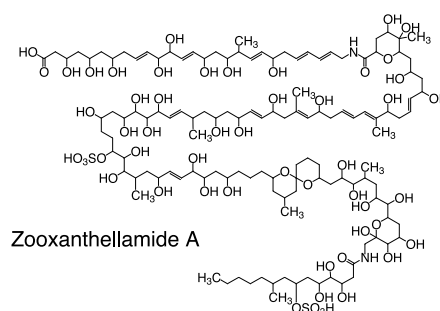
Tetrahedron 59 (2003) 1067

Ken-ichi Onodera,^{a,b} Hideshi Nakamura,^{a,b} Yuichi Oba^{a,b} and Makoto Ojika^{a,*}

^a*Graduate School of Bioagricultural Sciences, Nagoya University, Chikusa-ku, Nagoya 464-8601, Japan*

^b*CREST, Japan Science and Technology (JST), Japan*

A novel polyhydroxy metabolite named Zooxanthellamide A was isolated from a cultured marine dinoflagellate of *Symbiodinium* sp.



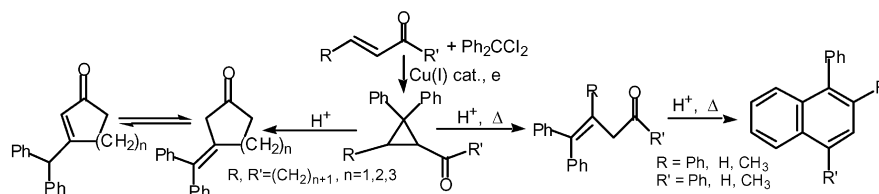
Copper-catalyzed electrosynthesis of 1-acyl-2,2-diphenylcyclopropanes and their behaviour in acidic medium

Tetrahedron 59 (2003) 1073

Sylvain Oudeyer, Eric Léonel, Jean Paul Paugam* and Jean-Yves Nédélec

Laboratoire d'Electrochimie, Catalyse et Synthèse Organique, UMR 7582, CNRS-Université Paris XII Val de Marne, 2, Rue Henri Dunant, B.P. 28, F-94320 Thiais, France

1-Acyl-2,2-diphenylcyclopropanes prepared under mild electrochemical conditions, are converted, in acidic medium, first into γ,γ -diphenyl- β,γ -unsaturated ketones and subsequently into substituted naphthalenes or β -benzhydryl- α,β -cycloalkenones.



Acylation of α -(*N*-carbamoyl)alkylcuprates and alkyl- or aryl(halo)cuprates

Tetrahedron 59 (2003) 1083

R. Karl Dieter,* Ram R. Sharma, Huayun Yu and Vinayak K. Gore

Hunter Laboratory, Department of Chemistry, Clemson University, Clemson, SC 29634-0973, USA

α -(*N*-Carbamoyl)alkylcuprates prepared from THF soluble $CuX \cdot 2LiCl$ ($X = CN, Cl$) give good to excellent yields of protected α -amino ketones upon reactions with acid chlorides.

