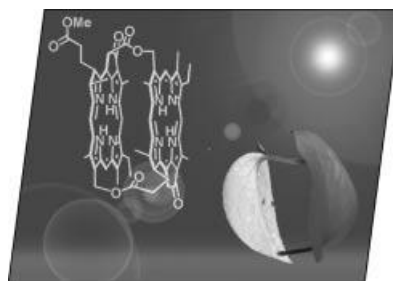


COVER PICTURE

The cover picture shows the molecular structure of a synthetic doubly-linked cyclic chlorophyll “hetero”-dyad (left) and its symbolic image using natural leaves (right). Two chlorophyllous π -systems are stereospecifically and covalently bonded with two different linkers and close to each other in a nearly parallel fashion. The present synthetic strategy has great potential for the systematic preparation of various cyclic chlorophyll hetero-dyads. Details of the synthesis and characterization are described in the article by N. Kosaka and H. Tamiaki on p. 2325 ff.



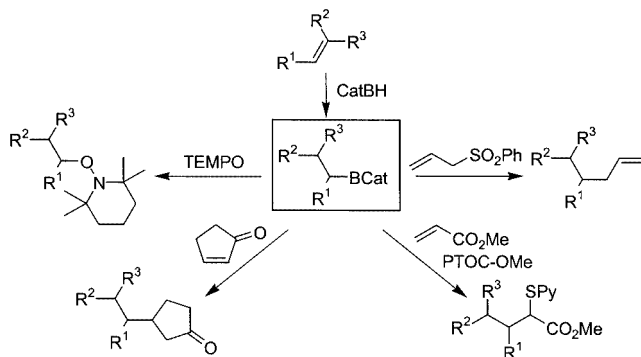
MICROREVIEWS

Contents

2291 A.-P. Schaffner, P. Renaud*

B-Alkylcatecholborane-Mediated Radical Reactions

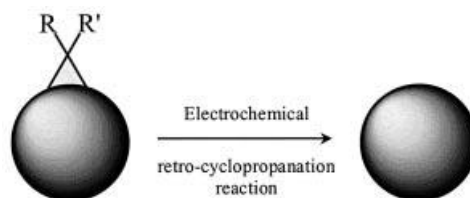
Keywords: Organoboranes / Catecholborane / Conjugate addition / Allylation



2299 M. Á. Herranz, F. Diederich, L. Echegoyen*

Electrochemically Induced Retro-Cyclopropanation Reactions

Keywords: Retro-cyclopropanation / Isomerization / Fullerenes / Cyclic voltammetry / Electrolysis

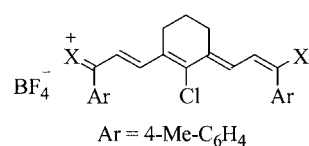


SHORT COMMUNICATIONS

2317 A. Izquierdo, V. Guieu, H. Gornitzka, Y. Madaule, C. Payrastré*

Synthesis and Reactivity of a New Nonacarbon Chain Carboxonium Salt – Access to a New Class of Streptocyanine Dyes

Keywords: Carboxonium salt / Cyanine / Dyes / Fluorescent probes / Polymethines



9-C carboxonium salt : X = OEt

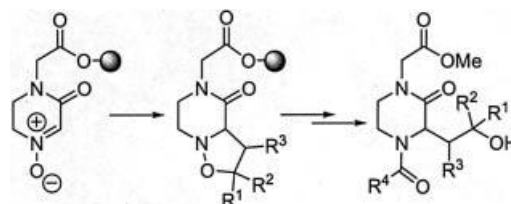
9-C streptocyanines : X = R¹R²N (hydrazono, primary or secondary aliphatic amino moieties)

2321 F. Wierschem, K. Rück-Braun*



2-Oxopiperazine Scaffolds by [3+2] Cycloaddition Reactions with a Polymer-Supported Cyclic Nitron

Keywords: Solid-phase synthesis / Isoxazoli(di)nes / Piperazin-2-one scaffolds / Cycloaddition / N–O-bond cleavage

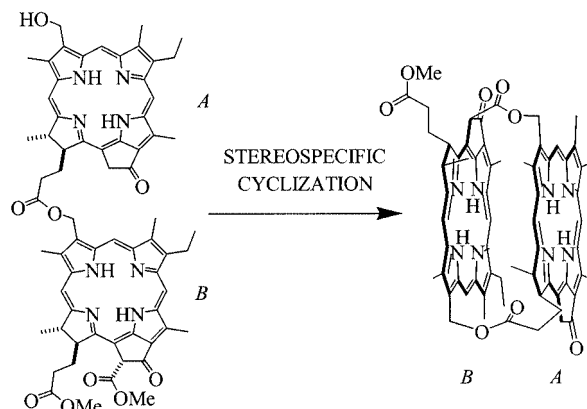


FULL PAPERS

2325 N. Kosaka, H. Tamiaki*

Synthesis of a Novel Cyclic Chlorophyll Heterodyad as a Model Compound for Stacked Chlorophylls Found in Photosynthetic Systems

Keywords: Conformation analysis / Cyclizations / Molecular modeling / Porphyrinoids / Stacking interactions

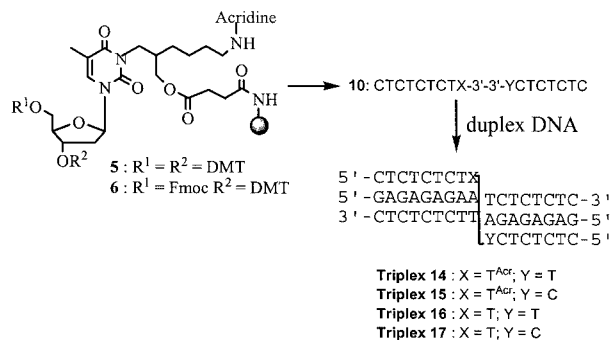


2331

J. Amato, A. Galeone, G. Oliviero,
L. Mayol,* G. Piccialli, M. Varra

Synthesis of 3'-3'-Linked Pyrimidine Oligonucleotides Containing an Acridine Moiety for Alternate Strand Triple Helix Formation

Keywords: Acridine / Circular dichroism / Helical structures / Oligonucleotides / Triplex

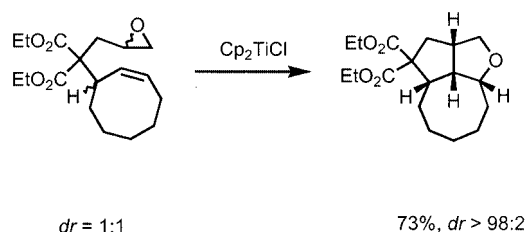


2337

A. Gansäuer,* B. Rinker, N. Ndene-Schiffer,
M. Pierobon, S. Grimme,* M. Gerenkamp,
C. Mück-Lichtenfeld

A Radical Roundabout for an Unprecedented Tandem Reaction Including a Homolytic Substitution with a Titanium-Oxygen Bond

Keywords: Epoxides / Homolytic substitution / Tetrahydrofurans / Titanium / Radical chemistry

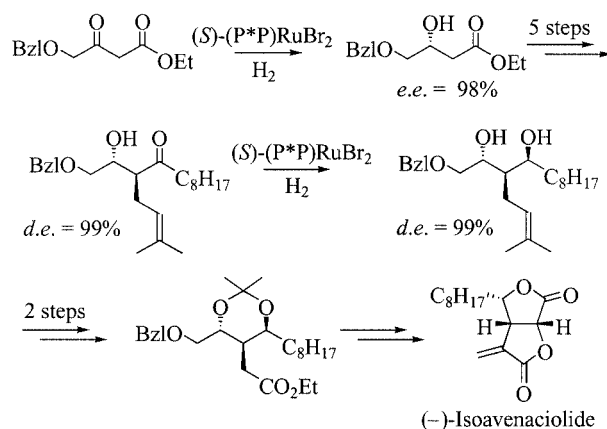


2352

O. Labeeuw, D. Blanc, P. Phansavath,*
V. Ratovelomanana-Vidal,* J.-P. Genêt

An Efficient Ruthenium-Catalyzed Formal Synthesis of (-)-Isoavenaciolide

Keywords: Antifungal agents / Asymmetric synthesis / Hydrogenation / (-)-Isoavenaciolide / Ruthenium / Natural products

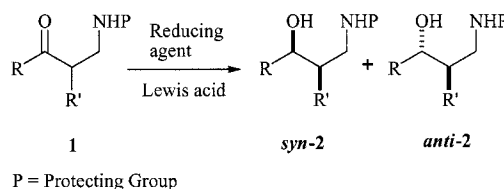


2359

G. Bartoli, M. Bartolacci, M. Cortese,
E. Marcantoni,* M. Massaccesi, R. Pela,
L. Sambri

Lewis Acid-Mediated Diastereoselective Reduction of *N*-Protected β -Amino Ketones: Influence of the Nature of the Metal Atom and of the Nitrogen Protecting Group

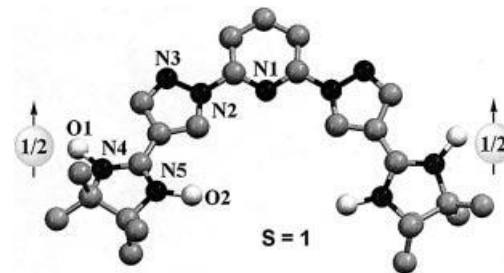
Keywords: Amino alcohols / Chelates / Lewis acids / Protecting groups / Reduction



2367 G. Zoppellaro, A. Geies, V. Enkelmann,
M. Baumgarten*

2,6-Bis(pyrazolyl)pyridine Functionalised with
Two Nitronylnitroxide and Iminonitroxide
Radicals

Keywords: Heterocycles / Radicals / UV/Vis and EPR
spectroscopy / Open-shell molecules / High-
spin molecules

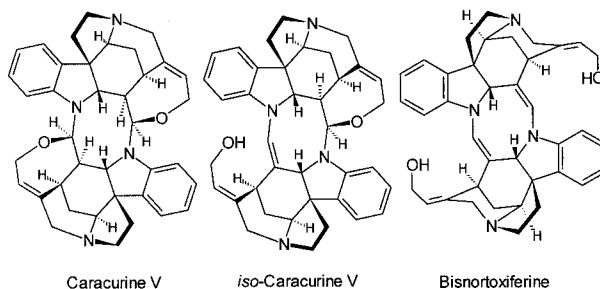


2375 D. P. Zlotos



Stereochemistry of Caracurine V, *iso*-Caracurine
V, Bisnortoxiferine, and Tetrahydrocaracurine V
Ring Systems

Keywords: Alkaloids / Conformational analysis /
Natural products / NMR spectroscopy

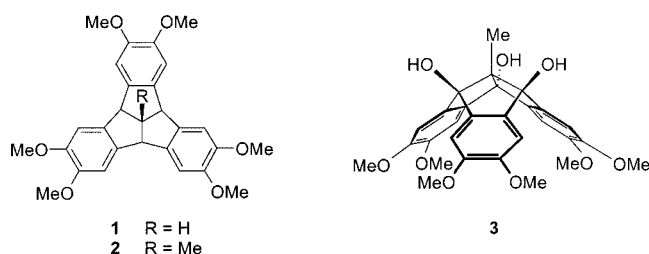


2381 M. Harig, B. Neumann, H.-G. Stammer,
D. Kuck*



2,3,6,7,10,11-Hexamethoxytribenzotriquinacene:
Synthesis, Solid-State Structure, and Func-
tionalization of a Rigid Analogue of
Cyclotrimeratrylene

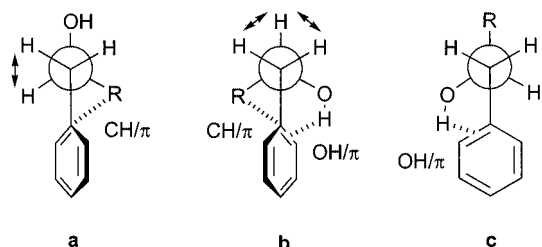
Keywords: Convex/concave molecules / Cyclotrimer-
atrylenes / Indane derivatives / Cyclization /
Aromatic substitution



2398 O. Takahashi,* K. Saito, Y. Kohno,
H. Suezawa,* S. Ishihara, M. Nishio*

The Conformation of Alkyl Benzyl Alcohols
Studied by ab initio MO Calculations – A Com-
parison with IR and NMR Spectroscopic Data

Keywords: CH/ π interaction / OH- π interaction /
Nuclear Overhauser effect / Vicinal
coupling constant / Infrared spectra

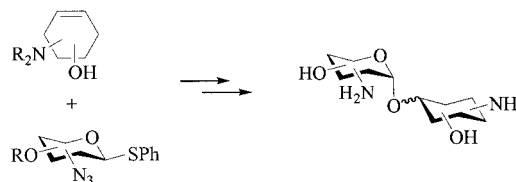


2404 S. H. L. Verhelst, L. Magnée, T. Wennekes,
W. Wiedenhof, G. A. van der Marel,
H. S. Overkleef, C. A. A. van Boeckel,
J. H. van Boom*



Glycosylation of Cyclitols: Synthesis of Neamine-
Type Aminoglycosides

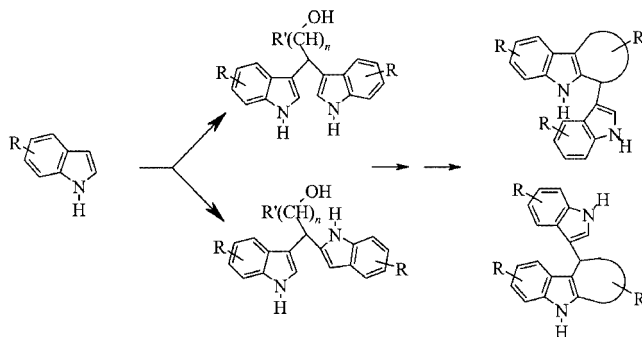
Keywords: Aminoglycoside antibiotics / Cyclitols /
Glycosylations / RNA recognition



- 2411** G. Giannini,* M. Marzi, G. P. Moretti,
S. Penco, M. O. Tinti, S. Pesci, F. Lazzaro,
F. De Angelis*

Synthesis of Cycloalkanoindoles by an Unusual
DAST-Trigged Rearrangement Reaction

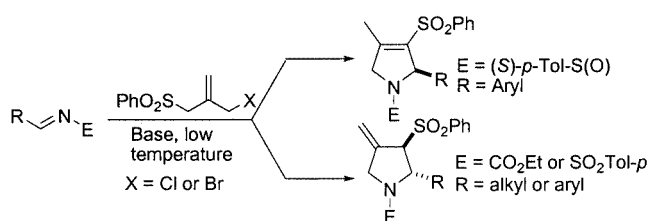
Keywords: Cycloalkanoindole / Geminal bis(indolyl)
compounds / Electrophilic substitution /
Electrophilic annulation / Rearrangement /
Angiogenesis inhibitors



- 2421** A. Hassner,* D. Usak, R. Kumareswaran,
O. Friedman

Stereoselective Addition of Sulfone Carbanions to C=N: A Critical Dependence on the Stability
and Reactivity of the Amide Anions in MIRC
Reactions

Keywords: Imines / Cyclization / Pyrrolidines / Dia-
stereoselectivity

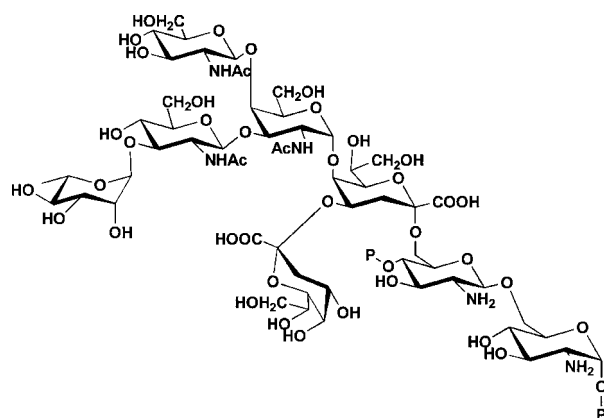


- 2427** C. De Castro, A. Molinaro,* R. Nunziata,
R. Lanzetta, M. Parrilli, O. Holst



A Novel Core Region, Lacking Heptose and
Phosphate, of the Lipopolysaccharide from the
Gram-Negative Bacterium *Pseudomonas cichorii*
(*Pseudomonadaceae* RNA Group 1)

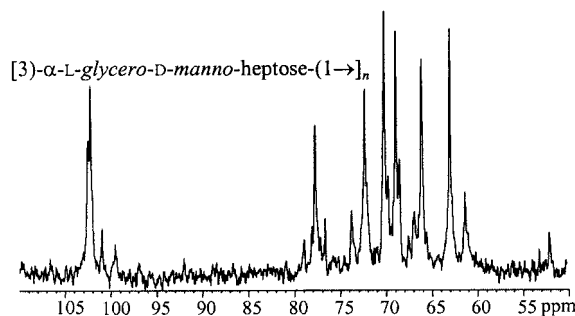
Keywords: Core oligosaccharide / Lipopolysaccha-
ride / Molecular modelling / NMR
spectroscopy / Phytopathogenic bacteria /
Pseudomonas cichorii



- 2436** C. De Castro,* L. Sturiale, M. Parrilli

Characterisation of the α -(1 $\rightarrow$ 3) Homopolymer
of *L*-glycero-D-manno-Heptose Units Isolated
from the O-Chain Polysaccharide of *Agrobacter-
ium radiobacter*

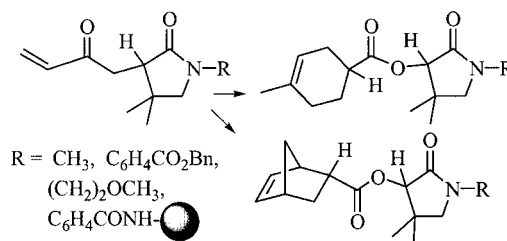
Keywords: Agrobacterium / *L*-glycero-D-manno-
Heptose / Lipopolysaccharide /
MALDI / NMR spectroscopy



2441 R. Akkari, M. Calmès,* J. Martinez

Toward Diels–Alder Reactions on a Solid Support Using Polymer Bound *N*-Substituted 3-Hydroxy-4,4-dimethyl-2-pyrrolidinone Acrylate Derivatives

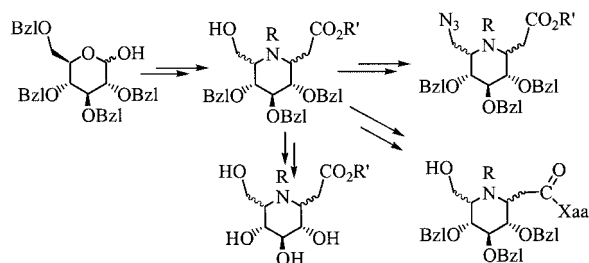
Keywords: Diels–Alder reaction / Solid-phase synthesis / Pyrrolidinone acrylate derivatives



2451 B. La Ferla, P. Bugada, L. Cipolla, F. Peri, F. Nicotra*

Synthesis of Imino Sugar Scaffolds for the Generation of Glycosidase Inhibitor Libraries

Keywords: Carbohydrates / Glycosidase inhibitors / Imino sugars / Libraries / Scaffolds



2471 H. Rudler,* A. Parlier, V. Certal, G. Lastennet, M. Audouin, J. Vaissermann



Interaction of Dihydropyridines and Nucleophiles with Carbene Complexes of Chromium: Diastereo- and Enantioselective Synthesis of Polycyclic Butenolides

Keywords: Chromium / Carbenes / Dihydropyridines / Nucleophiles / Butenolides

