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COVER PICTURE

The cover picture shows *Hypericum perforatum* in full bloom, its bioactive compound hyperforin and the unusual structure of two oxidized products, whose mechanism of formation is discussed in the article by L. Verotta, O. Sterner et al. on p. 1193 ff.



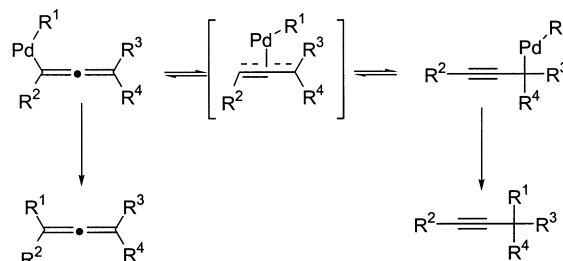
MICROREVIEWS

Contents

1175 S. Ma

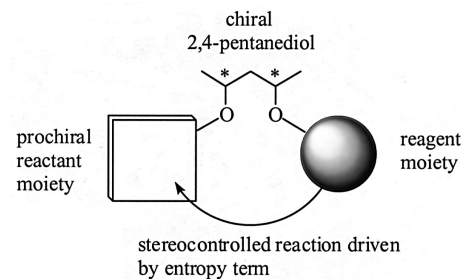
Pd-Catalyzed Coupling Reactions Involving Propargylic/Allenyllic Species

Keywords: Alkynes / Allenes / Coupling / Catalysis / Palladium



Entropy-Driven Asymmetric Synthesis with Chiral Tethers

Keywords: Asymmetric synthesis / Enantioselectivity / Chiral tether / Chiral perturbation

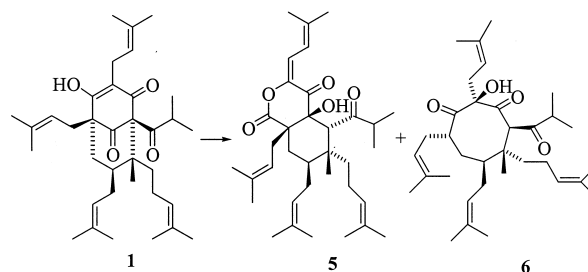


FULL PAPERS

1193 L. Verotta,* E. Lovaglio, O. Sterner,* G. Appendino, E. Bombardelli

Oxidative Fragmentation of the Bridged β -Triketone Core of Hyperforin

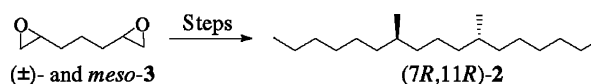
Keywords: Natural products / *Hypericum perforatum* / Terpenoids / Acylphloroglucinols / Fragmentation / Rearrangement



1198 S. Chow, W. A. Koenig, W. Kitching*

Synthesis and Enantioselective Gas Chromatography of Stereoisomers of 7,11-Dimethylheptadecane – A Pheromone Component of *Lambdina* Species

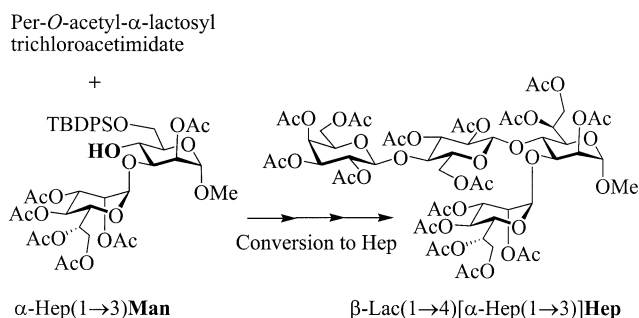
Keywords: Enantioselective gas chromatography / *Lambdina athasaria* / *Lambdina pelucidaria* / Pheromones / Hydrocarbons



1202 H. Kubo, K. Ishii, H. Koshino, K. Toubetto, K. Naruchi, R. Yamasaki*

Synthesis of a 3,4-Di-*O*-substituted Heptose Structure: A Partial Oligosaccharide Expressed in Neisserial Lipooligosaccharide

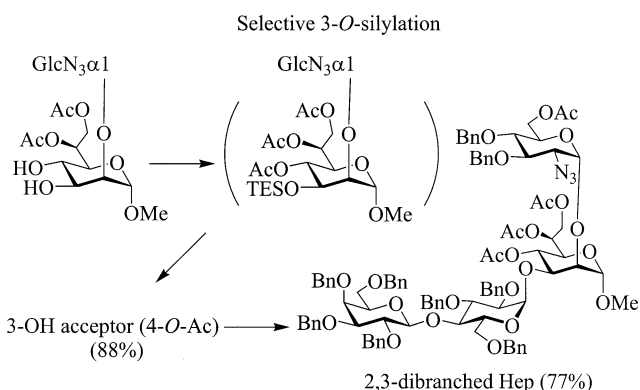
Keywords: Glycosylation / *Neisseria* / Oligosaccharides / Lipooligosaccharides / Lipopolysaccharides



1214 K. Ishii, Y. Esumi, Y. Iwasaki, R. Yamasaki*

Synthesis of a 2,3-Di-*O*-substituted Heptose Structure by Regioselective 3-*O*-Silylation of a 2-*O*-Substituted Heptose Derivative

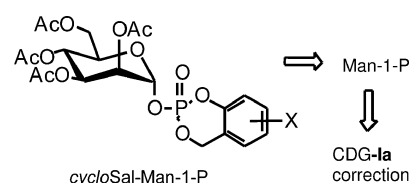
Keywords: Glycosylation / Lipooligosaccharide / Lipopolysaccharide / Oligosaccharides / Regioselective silylation



1228 U. Muus, C. Kranz, T. Marquardt, C. Meier*

*cyclo*Saligenyl-mannose-1-monophosphates as a New Strategy in CDG-Ia Therapy: Hydrolysis, Mechanistic Insights and Biological Activity

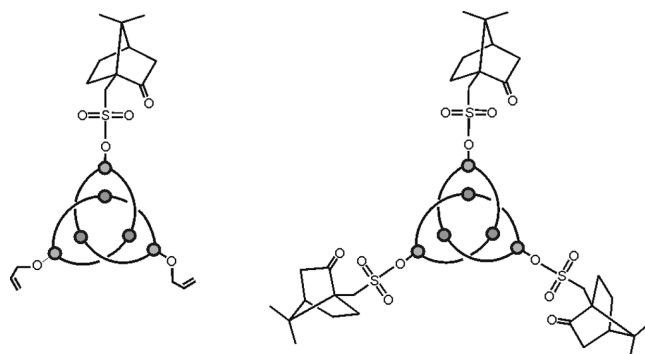
Keywords: Glycosylation / *cyclo*Saligenyl-pyranose-1-phosphate / *cyclo*Sal / Drug design / CDG-Ia



1236 O. Lukin, A. Yoneva, F. Vögtle*

Diastereoisomeric Molecular Knots by Combination of Central and Topological Chiralities

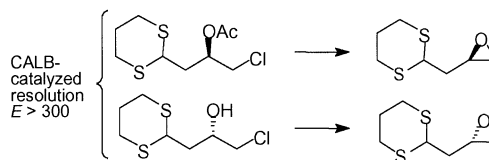
Keywords: Molecular knots / Chirality / Diastereoisomerism / Chiral resolution



1239 E. Sundby,* J. Holt, A. Vik, T. Anthonsen

Chemoenzymatic Synthesis of (2*S*)- and (2*R*)-2-(1,3-Dithian-2-ylmethyl)oxirane

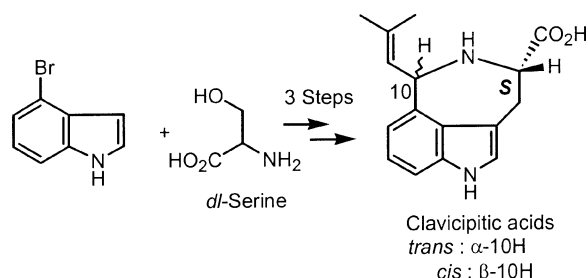
Keywords: Bioorganic chemistry / Enzyme catalysis / Chiral ligands / *Candida antarctica* / *Geotrichum candidum*



1244 Y. Yokoyama,* H. Hikawa, M. Mitsuhashi, A. Uyama, Y. Hiroki, Y. Murakami

Total Synthesis without Protection: Three-Step Synthesis of Optically Active Clavicipitic Acids by a Biomimetic Route

Keywords: Heck reaction / Tryptophan / Protecting groups / Clavicipitic acids / Total synthesis

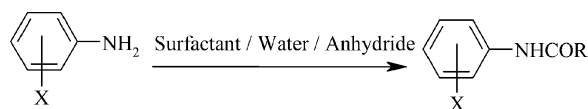


1254 S. Naik, G. Bhattacharjya, B. Talukdar, B. K. Patel*



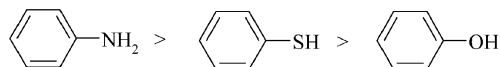
Chemoselective Acylation of Amines in Aqueous Media

Keywords: Amines / Amides / Acylation / Aqueous media / Chemoselectivity



X = F, Me, OMe, OH, NH₂, SH

Rate of acylation:

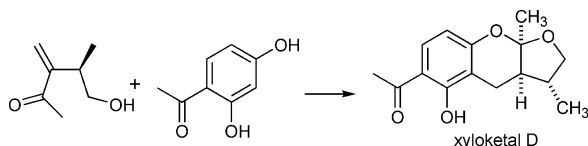


1261 K. Krohn,* M. Riaz, U. Flörke



Synthesis of Xyloketal, Natural Products from the Mangrove Fungus *Xylaria* sp

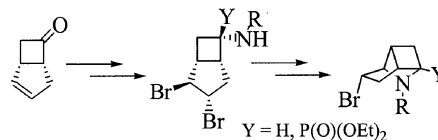
Keywords: Natural products / Total synthesis / Michael addition / Domino reactions / Ketal formation / Acetylcholin esterase inhibition



1271 T. Rammeloo, C. V. Stevens,* B. Soenen

Synthesis of New Constrained Tricyclic Amines and Tricyclic Aminophosphonates Containing the 2-Azatricyclo[3.3.0.0^{3,6}]octane Skeleton

Keywords: Amines / Aminophosphonates / Cyclization / Heterocycles

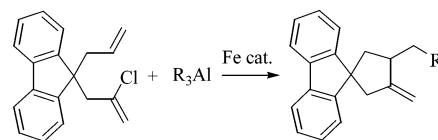


1280 D. Nečas, M. Kotora,* I. Císařová



Iron-Catalyzed Transformations of 2-Chloro-1,6-heptadienes

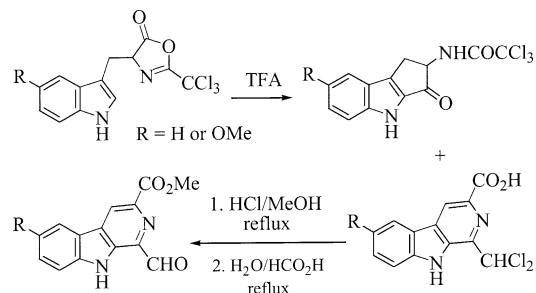
Keywords: Carboferration / Cyclization / Dienes / Homogeneous catalysis / Iron



1286 G. C. Condie, J. Bergman*

Reactivity of β -Carbolines and Cyclopenta[*b*]indolones Prepared from the Intramolecular Cyclization of 5(4*H*)-Oxazolones Derived from L-Tryptophan

Keywords: 5(4*H*)-Oxazolone / β -Carboline / Cyclopenta[*b*]indolone / Cyclization / Bischler–Napieralski reaction / Canthine / Synthesis design

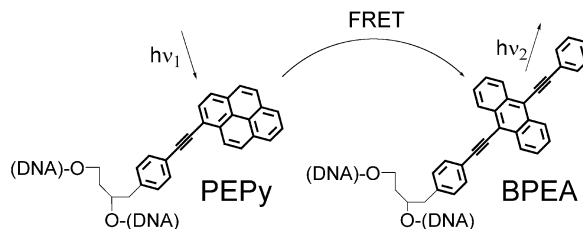


- 1298** A. D. Malakhov, M. V. Skorobogaty, I. A. Prokhorenko, S. V. Gontarev, D. T. Kozhich, D. A. Stetsenko, I. A. Stepanova, Z. O. Shenkarev, Y. A. Berlin, V. A. Korshun*



1-(Phenylethynyl)pyrene and 9,10-Bis(phenylethynyl)anthracene, Useful Fluorescent Dyes for DNA Labeling: Excimer Formation and Energy Transfer

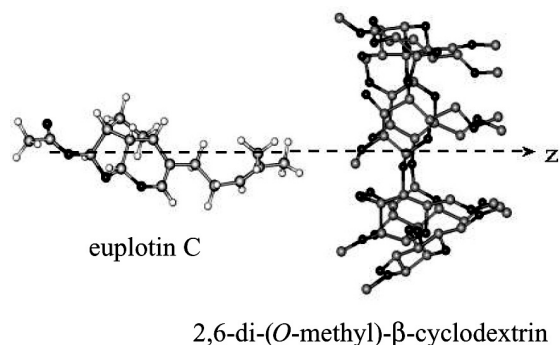
Keywords: Bioorganic Chemistry / DNA / Fluorescence / FRET / Excimers



- 1308** G. Guella,* E. Callone, I. Mancini, G. Uccello-Barretta, F. Balzano, F. Dini

Chemical and Structural Properties of the Inclusion Complex of Euplotin C with Heptakis-(2,6-di-*O*-methyl)- β -cyclodextrin through NMR Spectrometry, Electrospray Mass Spectroscopy and Molecular Mechanics Investigations

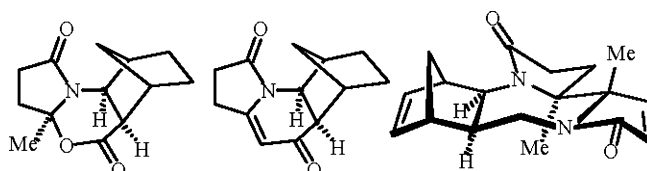
Keywords: Euplotin C / Cyclodextrins / NMR spectroscopy / Electrospray ionization / Hydrolysis



- 1318** G. Stájer,* A. E. Szabó, A. Csámpai, P. Sohár

Reactions of Levulinic Acid with Norbornene/ene Amino Acids and Diamines

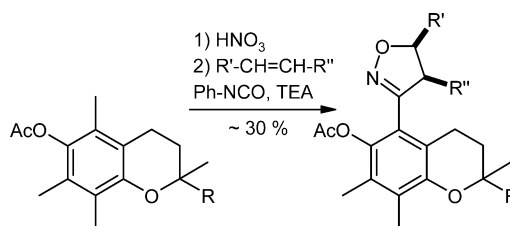
Keywords: Pyrrolobenzoxazines / Norbornene / Heterocycles / NMR spectroscopy / Cyclocondensations



- 1323** T. Rosenau,* C. Adelwöhrer, A. Hofinger, K. Mereiter, P. Kosma

3-Tocopherylisoxazolines by [2+3] Cycloaddition

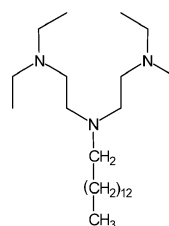
Keywords: Tocopherol / Vitamin E / Cycloaddition / Nitration / Nitrile oxide / Vitamins



- 1330** L. Brinchi, R. Germani, M. V. Mancini, G. Savelli,* N. Spreti

Carrier-Mediated Transport of Toxic Heavy Metal Ions in Bulk Liquid Membranes

Keywords: Cadmium / Carriers / Lead / Lipophilicity / Membranes / Mercury

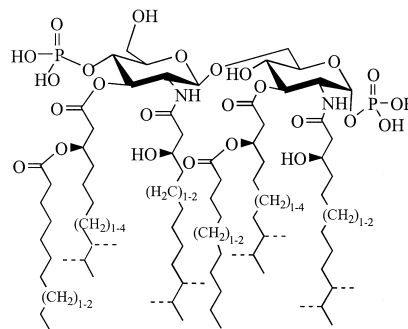


TE14DT as carrier for Cd^{2+} , Pb^{2+} , and Hg^{2+} through dichloromethane BLM

1336 A. Silipo, A. Molinaro,* R. Lanzetta,
M. Parrilli, B. Lindner, O. Holst*

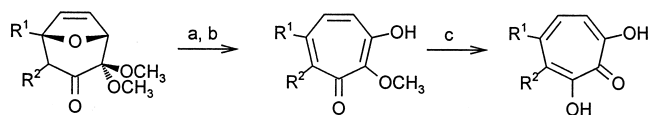
The Structures of the Lipid A Moieties from the Lipopolysaccharides of Two Phytopathogenic Bacteria, *Xanthomonas campestris* pv. *pruni* and *Xanthomonas fragariae*

Keywords: Lipid A / NMR spectroscopy / Mass spectrometry / *Xanthomonas campestris* / *Xanthomonas fragariae* / Phytopathogenic bacteria



1344 H. Zinser, S. Henkel, B. Föhlisch*

A Novel Synthesis of 2-Alkoxy-3-hydroxytropones and 2,7-Dihydroxytropones from Dialkoxo-8-oxabicyclo[3.2.1]oct-6-en-3-ones

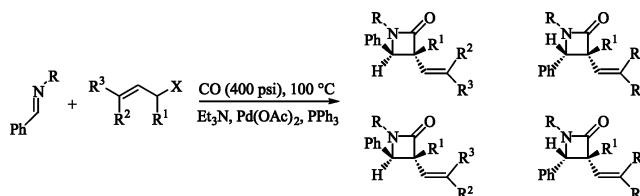


a) KOH / CH₃OH; b) HCl / H₂O; c) HBr / AcOH

Keywords: Acetals / Cleavage reactions / Ketones / Solvolysis / Tautomerism

1357 L. Troisi,* L. De Vitis, C. Granito,
E. Epifani

The Stereoselective Synthesis of Alkenyl-β-lactams by Palladium-Catalyzed [2+2] Carbonylative Cycloaddition



Keywords: Palladium / Cycloaddition / Alkenyl-β-lactams / Diastereoselectivity