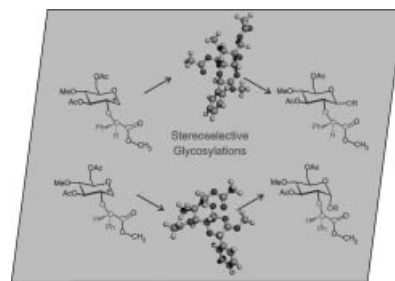


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COVER PICTURE

The cover picture shows the proposed mechanistic pathway for the stereoselective glycosylation based on Density Functional Theory calculations of the model compound. The protected sugar that has a chiral protecting group that is derived from mandelic acid and is attached to O-2 after activation to an oxacarbenium ion species can form energetically favorable 6-membered-ring dioxolenium ions. The favored dioxolenium ion has the phenyl substituent in an equatorial position in both cases, allowing for the chirality of the protecting group to be transferred to the stereochemistry of the synthetically isolated glycoside. Details are discussed in the article by D. Whitfield, G.-J. Boons et al. on p. 5007 ff.



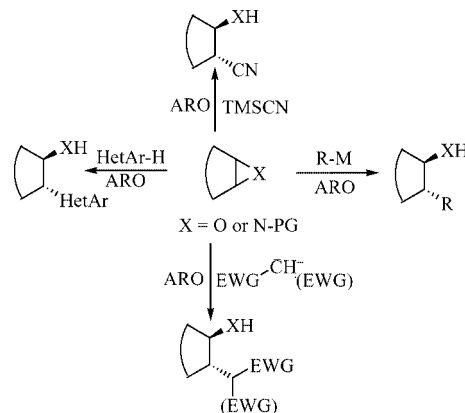
MICROREVIEW

Contents

4979 M. Pineschi*

Asymmetric Ring-Opening of Epoxides and
 Aziridines with Carbon Nucleophiles

Keywords: Epoxides / Aziridines / Desymmetrization /
 Asymmetric synthesis / Enantioselectivity

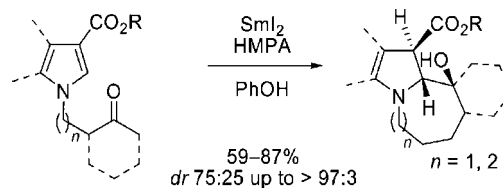


SHORT COMMUNICATIONS

4989 V. Blot, H.-U. Reißig*

Efficient Synthesis of Medium-Sized Rings Incorporating Indole or Pyrrole Units by Samarium Diiodide Induced Cyclizations

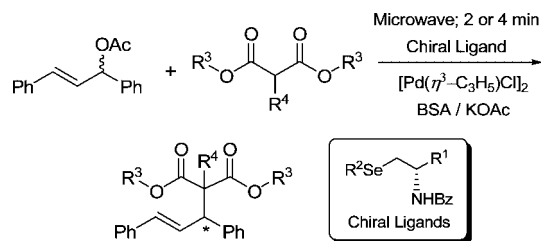
Keywords: Samarium diiodide / Indoles / Pyrroles / Radical reactions / Medium-ring compounds



4993 A. L. Braga,* F. Vargas, J. A. Sehnem, L. A. Wessjohann

Microwave-Mediated Palladium-Catalyzed Asymmetric Allylic Alkylation Using Chiral β -Seleno Amides

Keywords: Microwave / Palladium / Allylic alkylation / Selenium

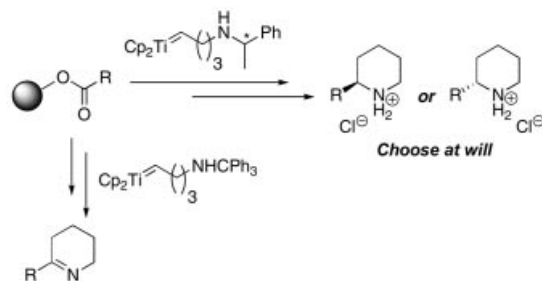


4998 L. V. Adriaenssens, C. A. Austin, M. Gibson, D. Smith, R. C. Hartley*



Stereodivergent Diversity Oriented Synthesis of Piperidine Alkaloids

Keywords: Amines / Asymmetric synthesis / Combinatorial chemistry / Solid-phase synthesis / Titanium complexes

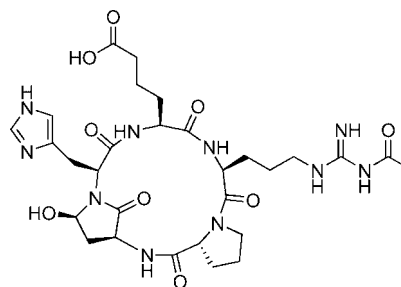


5002 M. J. Dixon, O. A. Andersen, D. M. F van Aalten, I. M. Eggleston*



First Synthesis of Argadin: A Nanomolar Inhibitor of Family-18 Chitinases

Keywords: Asthma / Chitinases / Peptides / Solid-phase synthesis / Total synthesis

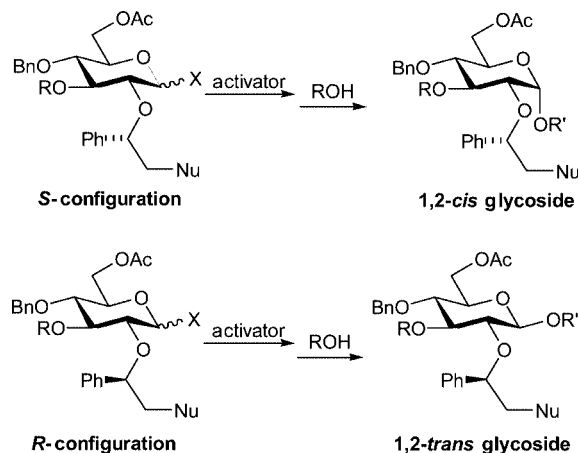


- 5007 J.-H. Kim, H. Yang, V. Khot, D. Whitfield, G.-J. Boons*



Stereoselective Glycosylations Using (*R*)- or (*S*)-(Ethoxycarbonyl)benzyl Chiral Auxiliaries at C-2 of Glycopyranosyl Donors

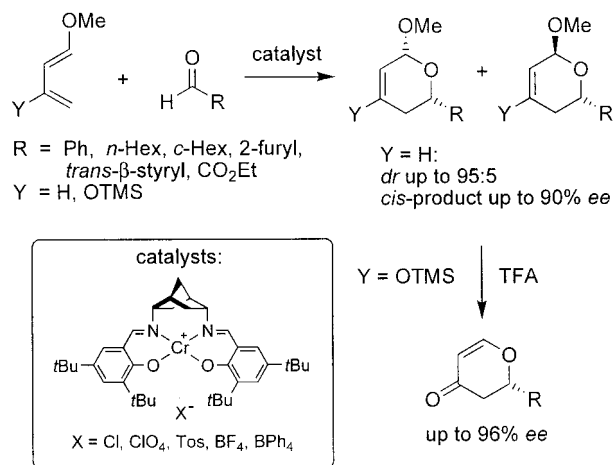
Keywords: Carbohydrates / Glycosylation / Anomeric control / Chiral auxiliary



- 5029 A. Berkessel,* N. Vogl

DIANANE-Cr^{III}-salen Complexes as Highly Enantioselective Catalysts for Hetero-Diels–Alder Reactions of Aldehydes with Dienes

Keywords: Asymmetric catalysis / Chromium / Hetero-Diels–Alder reaction / Homogeneous catalysis

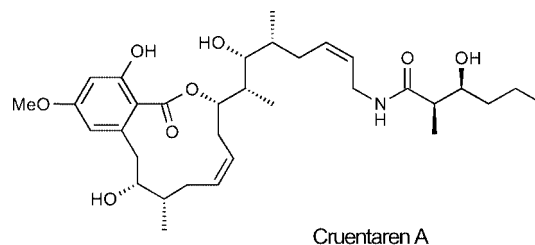


- 5036 L. Jundt, H. Steinmetz, P. Luger, M. Weber, B. Kunze, H. Reichenbach, G. Höfle*



Isolation and Structure Elucidation of Cruentarens A and B – Novel Members of the Benzolactone Class of ATPase Inhibitors from the Myxobacterium *Byssosvorax cruenta*

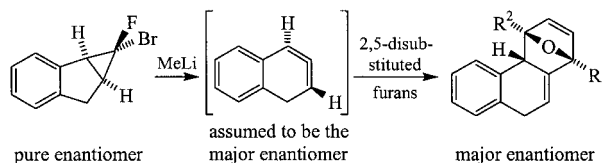
Keywords: Natural products / Polyketides / Inhibitors / Medium-ring compounds / Configuration determination



- 5045** M. Christl,* M. Braun, H. Fischer,
S. Groetsch, G. Müller, D. Leusser,
S. Deuerlein, D. Stalke,* M. Arnone,
B. Engels*



The Stereochemical Course of the Generation and Interception of a Six-Membered Cyclic Allene: 3 δ^2 -1*H*-Naphthalene (2,3-Didehydro-1,2-dihydronaphthalene)

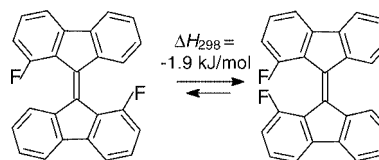


Keywords: CD spectra / Cycloadditions / Cyclic allenes / Enantioselectivity / Quantum chemistry calculations

- 5059** S. Pogodin, I. D. Rae, I. Agranat*



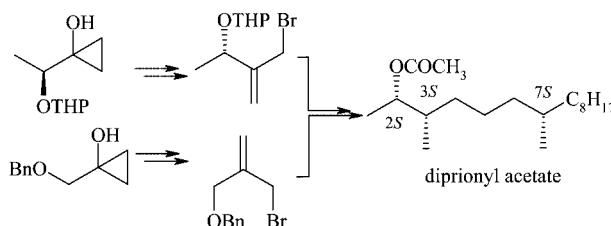
The Effects of Fluorine and Chlorine Substituents across the Fjords of Bifluorenylidene: Overcrowding and Stereochemistry



Keywords: DFT calculations / (*E*)/(*Z*) isomerization / Bistricyclic aromatic enes / ^{19}F NMR spectroscopy / Through-space coupling / Strained ethylenes

- 5069** A. V. Bekish, K. N. Prokhorevich,
O. G. Kulinkovich*

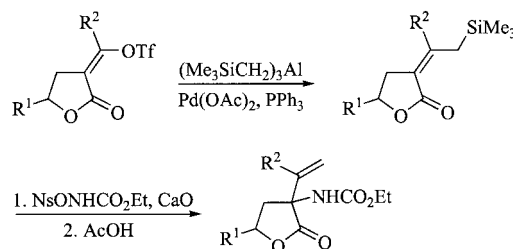
Transformation of Esters into 2-Substituted Allyl Halides via Tertiary Cyclopropanols: Application in the Stereoselective Synthesis of (2*S*,3*S*,7*S*)-3,7-Dimethyl-2-pentadecyl Acetate, the Sex Pheromone of the Pine Sawfly *Neodiprion sertifer*



Keywords: Asymmetric synthesis / Pheromones / Lactic acid / Cyclopropanols

- 5076** M. Capuzzi, A. Gambacorta, T. Gasperi,
M. A. Loreto,* P. A. Tardella

α -Amino- α -vinyl- γ -butyrolactone Derivatives from α -{[(Trimethylsilyl)methyl]alkylidene}- γ -butyrolactones

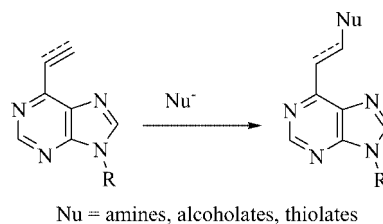


Keywords: α -Amino lactones / Aza-Michael reactions / Allylsilanes / Vinyl triflates / Cross-coupling / Palladium

5083 M. Kuchař, R. Pohl, I. Votruba, M. Hocek*

Synthesis of Purines Bearing Functionalized C-Substituents by the Conjugate Addition of Nucleophiles to 6-Vinylpurines and 6-Ethynylpurines

Keywords: Purines / Michael addition / Conjugate additions / Cross-coupling

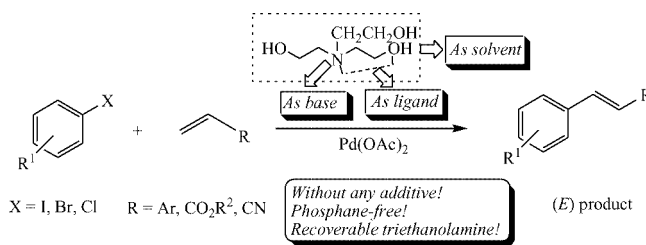


5099 H. J. Li, L. Wang*



Triethanolamine as an Efficient and Reusable Base, Ligand and Reaction Medium for Phosphane-Free Palladium-Catalyzed Heck Reactions

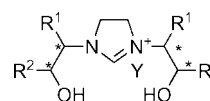
Keywords: Heck reaction / Palladium / Phosphane-free catalysis / Triethanolamine / Catalysis



5103 V. Jurčik, M. Gilani, R. Wilhelm*

Easily Accessible Chiral Imidazolinium Salts Bearing Two Hydroxy-Containing Substituents as Shift Reagents and Carbene Precursors

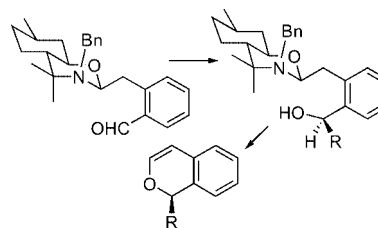
Keywords: Carbenes / Shift reagents / Ionic liquids / Imidazolinium salts



5110 R. Pedrosa,* S. Sayalero, M. Vicente

Short and Efficient Diastereoselective Synthesis of Enantiopure 1-Substituted 1*H*-2-Benzopyrans

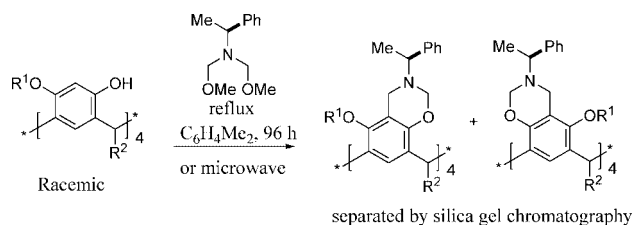
Keywords: Asymmetric synthesis / 1,3-Amino alcohols / Benzopyrans / Isochromanes / Isochromenes



5117 B. R. Buckley, J. Y. Boxhall, P. C. B. Page, Y. Chan, M. R. J. Elsegood, H. Heaney,* K. E. Holmes, M. J. McIlldowie, V. McKee, M. J. McGrath, M. Mocerino, A. M. Poulton, E. P. Sampler, B. W. Skelton, A. H. White

Mannich and *O*-Alkylation Reactions of Tetraalkoxyresorcin[4]arenes – The Use of Some Products in Ligand Assisted Reactions

Keywords: Axial chirality / Chiral auxiliaries / Configuration determination / Diastereoselectivity / Mannich reactions / Resorcinarenes



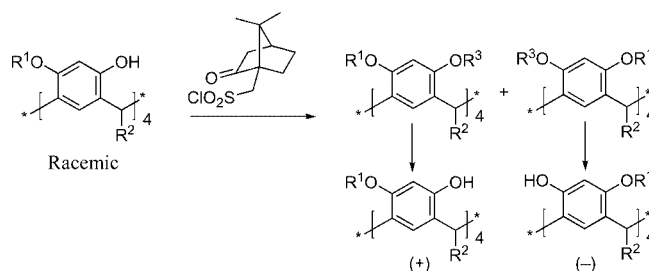
5135

B. R. Buckley, P. C. B. Page, Y. Chan,
H. Heaney,* M. Klaes, M. J. McIldowie,
V. McKee, J. Mattay, M. Mocerino,
E. Moreno, B. W. Skelton, A. H. White



The Preparation and Absolute Configurations of Enantiomerically Pure C_4 Symmetric Tetraalkoxyresorcin[4]arenes Obtained from Camphorsulfonate Derivatives

Keywords: Axial chirality / Camphorsulfonates / Chiral auxiliaries / Configuration determination / Diastereoselectivity / Hydrolysis / Mannich reactions / Resorcin[4]arenes



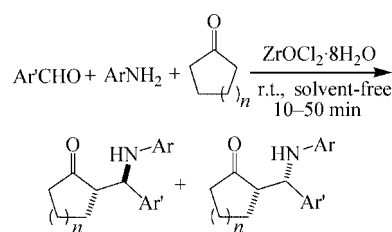
5152

B. Eftekhari-Sis, A. Abdollahifar,
M. M. Hashemi,* M. Zirak



Stereoselective Synthesis of β -Amino Ketones via Direct Mannich-Type Reactions, Catalyzed with $ZrOCl_2 \cdot 8H_2O$ under Solvent-Free Conditions

Keywords: Direct Mannich-type reaction / β -Amino ketones / Zirconium oxychloride / Solvent-free conditions

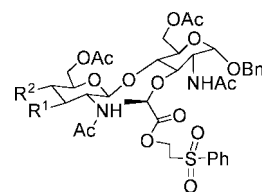


5158

D.-Q. Sun, R. Busson, P. Herdewijn*

Synthesis of Deoxygenated Disaccharide Precursors for Modified Lipid II Synthesis

Keywords: Peptidoglycan / Deoxy-D-glucosamine / Disaccharide / Lipids / Reduction



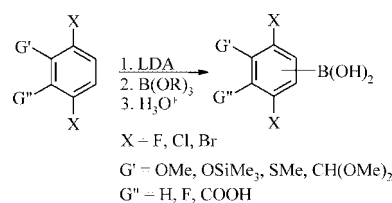
1a: $R^1 = OAc$, $R^2 = H$
1b: $R^1 = H$, $R^2 = OAc$

5167

S. Luliński,* J. Serwatowski, A. Zaczek

Long-Range Effects in the Metalation/Boronation of Functionalized 1,4-Dihalobenzenes

Keywords: Metalation / Long-range inductive effects / Substituent effects / Buttressing effects / Aryl halides / Aryl boronic acids



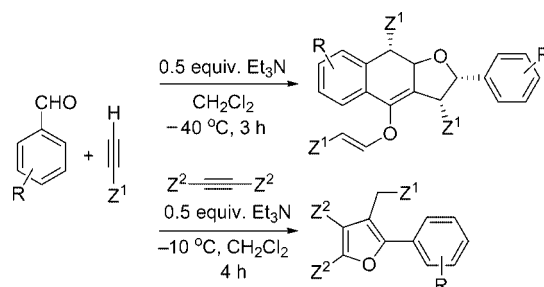
5174

S.-L. Cui, X.-F. Lin, Y.-G. Wang*



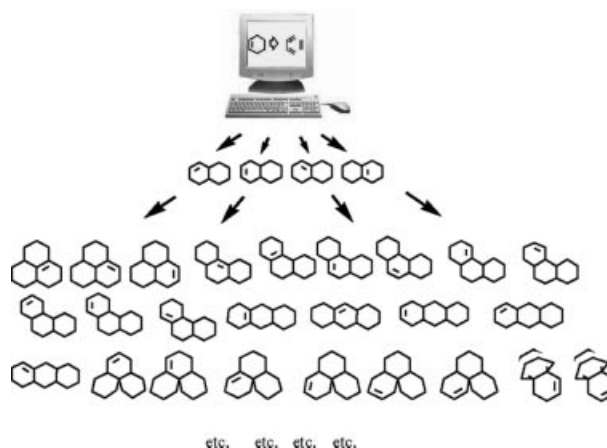
Cascade Reactions of Aromatic Aldehydes with Electron-Deficient Acetylenes: Regioselective Construction of Diverse Aromatic Ring Systems

Keywords: Aldehydes / Cascade reactions / Domino reactions / Synthetic methods



WTDWTR: What To Do With This Reaction?
A New Program in the Field of Computer-Aided
Synthesis Design – Application to the Diels–
Alder Reaction

Keywords: Computer-aided organic synthesis / Struc-
ture generator / Combinatorial chemistry /
Steroids / Diels–Alder



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