GRAPHICAL ABSTRACTS



Tetrahedron Letters, 1994, 35, 8529 Stereostructural Studies on the 4-Hydroxylated Annonaceous Acetogenins; A Novel Use of Mosher Ester Data for Determining Relative Configuration [Between C(4) and C(36)] Thomas R. Hoye,* Paul R. Hanson, Linda E. Hasenwinkel, Elizabeth A. Ramirez and Zhiping Zhuang Ъ Department of Chemistry, University of Minnesota, Minneapolis, MN 55455 Analysis of MTPA (Mosher) esters of II vis-a-vis the MTPA derivatives of 4-hydroxylated 11 acetogenins provides the first general method for assignment of C(4)/C(36) relative configuration. **Difunctional Blocking Groups for Rotaxanes and** Tetrahedron Letters, 1994, 35, 8533 Polyrotaxanes. Shu Liu and Harry W. Gibson*, Department of Chemistry, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061 Three difunctional blocking groups for rotaxanes and polyrotaxanes were synthesized: COOC₂H₅ O(CH₂)₁₀O • OH COOC₂H₅ Tetrahedron Letters, 1994, 35, 8537 1,3-Asymmetric Induction in the Aldol Addition Reactions of Methyl Ketone Enolates and Enolsilanes to B-Substituted Aldehydes. A Model for Chirality Transfer Devid A. Evene,* Joeaph L. Duffy, and Michael J. Dart Department of Chemistry, Harvard University, Cambridge, Mass. 02138, USA The diastereoselectivities of the indicated aldol reactions were documented for a representative set of enol derivative (M = LI, TICI_p, BR_2 , SiN(e₃) and β -substituted aldehydes (Rp = OR, OAc, Cl). A model for the addition process is proposed to account for the data reported. Tetrahedron Letters, 1994, 35, 8541 1,3-Asymmetric Induction in Hydride Addition Reactions to β-Substituted Ketones. A Model for Chirality Transfer Devid A. Evens,* Michael J. Dert, and Joseph L. Dutty Department of Chemistry, Harvard University, Cambridge, Mass. 02138, USA A reversal in carbonyl x-facial selectivity is observed in the reductions of B-substituted Li(s-Bu)_BH Li(s-Bu)_BH ketones depending on the nature of the β-substituent. A polar model is proposed Ru - OTBS to account for this turnover. R_ = ChingCH=CHg RL = CM03 Syn 97 : 03 Anii 92:08

~~~

















## Tetrahedron Letters, 1994, 35, 8659 SYNTHESIS OF SULFONIUM SALTS BY SULFIDE ALKYLATION; AN ALTERNATIVE APPROACH Varinder K. Aggarwala\*, Alison Thompsona and Ray V.H. Jones.b (a) Department of Chemistry, University of Sheffield, Sheffield S3 7HF, England. (b) Zeneca FCMO, Process Technology Department, Earls Road, Grangemouth, Stirlingshire FK3 8XG, UK. $R^{1}-S-R^{2} + R^{3}-Br + NaClO_{4} \xrightarrow{acelone} \begin{bmatrix} R^{1} \\ R^{2}-S + R^{3} \end{bmatrix} ClO_{4}^{-1}$ ₊ NaBr↓ Sulfides undergo alkylation reactions in the presence of NaClO4 in acetone. Reactions are cleaner and it is easier to isolate the resulting sulfonium salts than using the conventional procedure involving AgClO4. Tetrahedron Letters, 1994, 35, 8661 Synthesis and Conformational Behaviour of Novel Cyclodextrin Hetero-Dimers. Fokke Venema, Chantal M. Baselier, Martinus C. Feiters, and Roeland J.M. Nolte,\* Department of Organic Chemistry, NSR-Center, University of Nijmegen, Toernooiveld, 6525 ED Nijmegen, The Netherlands The synthesis of novel cyclodextrin heterodimers (e.g. 1) derived from $\alpha$ - and $\beta$ cyclodextrin is reported. NMR-studies in D2O indicate that the spacer is bound in one of the two cavities of the dimer, which results in lower affinities for guest molecules. Tetrahedron Letters, 1994, 35, 8665 NEW ACETOXY-ent-PALLESCENSIN-A SESQUITERPENOIDS FROM THE SKIN OF THE POROSTOME NUDIBRANCH DORIOPSILLA AREOLATA Aldo Spinella, Luis A. Alvarez, Conxita Avila and Guido Cimino Istituto per la Chimica di Molecole di Interesse Biologico, C. N. R. Via Toiano, 6 - 80072 Arco Felice (NA) - Italy AcŌ The first chemical study of an European Doriopsilla mollusc is reported. Two acetoxy derivatives 5 R = H; 6 R = OAc(5, 6) of *ent*-pallescensin-A were isolated from the border of the dorsal mantle of D. areolata. Tetrahedron Letters, 1994, 35, 8669 **GLYCOSYL SULFATES AS GLYCOSYL DONORS.** Laura Cipolla, Luigi Lay, Francesco Nicotra, Luigi Panza and Giovanni Russo\* Dipartimento di Chimica Organica e Industriale, Centro per lo Studio delle Sostanze Organiche Naturali del CNR, via Venezian 21, 20133 Milano - Italy Glycosyl sulfates, easily synthesised from tetrabenzyl pyranoses, can act as glycosyl donors under Lewis acid catalysis. .NMe BnO ROH BnC BnO Promoter 00 OSO3NHMc3

Tetrahedron Letters, 1994, 35, 8671 Mapping the Stereochemical Course of Carbonyl Phosphonylation via Chiral Phosphorodiamidites Mark J. Cain, Christopher A. Baird and Terence P. Kee School of Chemistry, University of Leeds, Leeds LS2 9JT, UK Comparison of N-Me and N-<sup>1</sup>Pr-(1R.2S)-ephedrine auxiliaries in the asymmetric Abramov reaction reveals that the latter has a stronger preference for  $(S_P, S_C)$  stereochemistry. Tetrahedron Letters, 1994, 35, 8675 NOVEL SYNTHETIC APPLICATIONS OF ARENEDIAZONIUM SALTS Christopher Lampard, John A. Murphy\* and Faiza Rasheed, Department of Chemistry, University of Nottingham, University Park, Nottingham NG7 2RD; Norman Lewis, SmithKline Beecham Pharamaceuticals, Old Powder Mills, Leigh, Tonbridge, Kent TN11 9AN; Michael B. Hursthouse and D. E. Hibbs, EPSRC X-Ray Crystallography Service, P.O. Box 912, Cardiff, CF1 3TB. (64%) Tetrahedron Letters, 1994, 35, 8679 **TETRATHIAFULVALENE AS A TRIGGER FOR** SEQUENTIAL RADICAL TRANSLOCATION AND FUNCTIONALISATION. Michael J. Begley<sup>†</sup>, John A. Murphy<sup>\*</sup> and Stephen J. Roome, Department of Chemistry, University of Nottingham, University Park, Nottingham NG7 2RD (45%) BF₄ EtO<sub>2</sub>C EtO<sub>2</sub>0 CO<sub>2</sub>Et Tetrahedron Letters, 1994, 35, 8683 STEREOCHEMICAL CONTROL OF PERHYDROINDANES FOR THE SYNTHESIS OF CARDENOLIDE ANALOGS Manuel Medarde\*, Fernando Tomé, Jose Luis López, Esther Caballero, Melchor Boya, Concepción P. Melero and Arturo San Feliciano Dept. Química Orgánica y Farmacéutica. Fac. Farmacia. Av. Campo Charro s/n. E-37007 SALAMANCA. Spain. (FAX-34-23-294515). Molecular modeling of cis-perhydroindane compounds predicted the CHO CHO higher stability of the C-1-\beta-epimer for the dithiane derivative at C-5. So, Base the control of the stereochemistry at C-1 has been achieved in these compounds, required for the synthesis of cardenolide analogs. X,Y=S(CH<sub>2</sub>)<sub>3</sub>S



