## **GRAPHICAL ABSTRACTS**







Tetrahedron Lett. 30, 4227 (1989) ON THE ENHANCEMENT OF STEREOSELECTION BY COOPERATION BETWEEN CHIRAL AUXILIARIES. ASYMMETRIC DIELS-ALDER REACTIONS WITH FUMARIC ACID BIS ((S)-PROLINE **BENZYL ESTER) AMIDE** H. Waldmann, Inst. f. Org. Chem. and M. Dräger, Inst f. Anorg. Chem. d. Univ., D-6500 Mainz OB<sub>2</sub>1 ProOBzl 0, ProOBzl 0°C, toluene:93.5:6.5; quant. ProOBzl R<sub>2</sub>IC 0' ProOBz -40°C, 0.5 eq. TiCl4:100:1, 90% Tetrahedron Lett.30,4231(1989) SYNTHESIS AND IMMOBILIZATION OF NEW CROWN ETHERS DERIVED FROM **D-MANNITOL FOR THE RESOLUTION OF FREE AMINO ACIDS** Jean-Pierre JOLY and Bernard GROSS<sup>6</sup> Université de Nancy I, Faculté des Sciences, Laboratoire de Chimie Organique 3, associé au CNRS, B.P. 239, 54506 VANDOEUVRE-LES-NANCY (FRANCE) Me 0-New crown ethers, derived from D-mannitol, immobilized by dyna-Me mic coating on C18-silicas, provide efficient chromatographic baseline separations of racemic free phenylglycine, tryptophan and p-nitro-phenylalanine into their enantiomers. н Me R = H. Me or NO<sub>2</sub> Total Synthesis of Unsaturated Trihydroxy C18 Fatty Acids. Tetrahedron Lett.30,4235(1989 B. Gossé-Kobo, P. Mosset \* and R. Grée Laboratoire de Chimie Organique Biologique, E.N.S.C.R., Av. du Gal Leclerc, 35700 Rennes, France. R' R" CO<sub>2</sub>Me The trihydroxy Q 8 fatty acid derivatives 13 and 14 HOY have been prepared in chiral form starting from 13: R' = OH; R'' = Hnatural tartaric acid. 14: R' = H; R'' = OHTetrahedron Lett.30,4237(1989) SOME FURTHER NOVEL TRANSFORMATIONS OF GEMINAL (PYRIDINE-2-THIYL) PHENYLSULPHONES. SO<sub>2</sub>Ph Na<sub>2</sub>Te  $_{\rm SO_2Ph}$ Derek H. R. Barton<sup>a\*</sup>, Jean Boivin<sup>b</sup>, Jadab Sarma<sup>a</sup>, Elisabeth da Sliva<sup>b, c</sup>, and Samir 2.  $Zard^{b^*}$ a) Department of Chemistry, Texas A6M University, College Station, Texas 77843, U.S.A.; b) Laboratoire de synthèse R / R Peracid R SO<sub>2</sub>Ph Heat Organique, Ecole Polytechnique, 91128 Palaiseau, France c) Ministère de la Defense Geminal (pyridine-2-thiyl) phenylsulphones can be R R easily converted into sulphones, terminal olefins Organoor alkylated sulphides. aluminum reagents

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The absolute configurations at C-8 and 9-carbons of ADDA, a component of cyanoviridin RR  
isolated from Microcystis species (cyanobacteria), have been synthetically determined as *S*, *S*.  
  
SYNTHESIS AND REACTIONS OF 5-(TRIENTILSTANNIL) ISOXAZOLES  
Yoshinori Kondo, Daishi Uchiyama, Takao SARAMATO, and Hirnshi Yamanaka<sup>6</sup>  
Pharmaceutical Institute, Tohoku University, Aobayama, Aoba-ku, Sendai 980, Japan  
Bu<sub>3</sub>SnCECH + RCEN-0 
$$\qquad$$
  $R' = PhCO, Ph, pyridyl
RCEN-0 Reisuke Imai, and Eiji Ōsawa'
Department of Chemistry, Faculty of Science, Hokkaldo University, Sappor$ 

Tetrahedron Lett. 30,4255(1989) AMINOLEAD COMPOUNDS AS A NEW REAGENT FOR REGIOSELECTIVE RING OPENING OF EPOXIDES Jun-ichi Yamada, Masatoshi Yumoto, and Yoshinori Yamamoto\* Department of Chemistry, Faculty of Science, Tohoku University, Sendai 980, Japan Regioselective ring opening of epoxides is accomplished by using aminolead compounds. OH NHR<sup>2</sup> R<sup>1</sup><sub>3</sub>PbNHR<sup>2</sup> -Tetrahedron Lett.30,4259(1989) NOVEL SYNTHESIS AND ANTITUMOR ACTIVITY OF 14,14-DIFLUORO-4-DEMETHOXYDAUNORUBICIN Fuyuhiko Matsuda,\* Teruyo Matsumoto, Masako Ohsaki, and Shiro Terashima Sagami Chemical Research Center, 4-4-1, Nishi-Ohnuma, Sagamihara, Kanagawa 229, Japan сно COCHF2 1) BrFaCOaEL Zn OSit-BuMe<sub>2</sub> юн 2) Dess-Martin Ox. 3) Decarboxylation NH<sub>2</sub>+HCI Tetrahedron Lett.30,4263(1989) CHEMISTRY OF NEOCARZINOSTATIN-MEDIATED DEGRADATION OF d(GCATGC). MECHANISM OF SPONTANEOUS THYMINE RELEASE Hiroshi Kawabata, Hiroshi Takeshita, Tsuyoshi Fujiwara, Hiroshi Sugiyama, Teruo Matsuura, and Isao Saito\* Department of Synthetic Chemistry, Faculty of Engineering, Kyoto University, Kyoto 606, Japan GCADO ÓnGC T = thymined(GCAp) + HCO<sub>2</sub>H ÓoGC Tetrahedron Lett.30,4267(1989) A SELECTIVE ONE-CARBON RING EXPANSION **REACTION OF 1-SILOXYCYCLOALKANECARBALDEHYDES** CATALYZED BY A LEWIS ACID Toyoharu Matsuda, Keiji Tanino, and Isao Kuwajima\* Department of Chemistry, Tokyo Institute of Technology, Meguro, Tokyo 152, Japan TBSO CH=O TBSO Cl<sub>2</sub>AIOPh FeCl<sub>3</sub> OTIPS



Tetrahedron Lett. 30,4287(1989) A MILD GENERAL METHOD FOR THE SYNTHESIS OF **≪-2-DEOXY-DISACCHARIDES: SYNTHESIS OF** L-OLEANDROSYL-L-OLEANDROSE FROM D-GLUCOSE D. Ravi, Vinayak R. Kulkarni and Hari Babu Mereyala\* National Chemical Laboratory, Pune 411008, India. Tetrahedron Lett. 30, 4291 (1989) ETZIONIN, A NEW METABOLITE FROM A RED SEA TUNICATE S. Hirsch<sup>1</sup>, A. Miroz<sup>2</sup>, P. McCarthy<sup>3</sup> and Y. Kashman<sup>1\*</sup> 1. Sackler Faculty of Exact Sciences, School of Chemistry, Tel-Aviv University, Israel 69978. 2. Underwater Observatory and Aquarium, P.O.B. 829 Eilat, ISRAEL. 3. Harbor Branch Oceanographic Institution, Ft. Pierce, Florida 34946, USA. CH2CONH(CH2)NHR, The structure of etzionin has been determined. Tetrahedron Lett. 30, 4295 (1989 SYNTHESIS OF STROPHANTHIDIN P. Kočovský and I. Stieborová Institute of Organic Chemistry and Biochemistry Czechoslovak Academy of Sciences, 16610 Prague 6, Czechoslovakia A 16-step synthesis of strophanthidin is described starting from the commercially available 5,16-pregnadien-38-y1-20-one. The key step is an one-pot hydroxylation in the 58- and 148-positions by stereocontrolled addition of 2 equivalents of HOBr to the corresponding 5,14-diene followed by Bu<sub>2</sub>SnH reduction. SYNTHESIS OF THE (2E,4Z,6E)-, (2E,4E,6E)- and (2E,4E,6Z)-Tetrahedron Lett.30,4299(1989) TETRAENOL STEMS OF THE HOST-SELECTIVE AF AND AK TOXINS BY HYDROMETALLATION. Leslie Crombie, Mark A. Horsham and Sandra R. M. Jarrett. Department of Chemistry, The University of Nottingham. Nottingham, NG7 2RD Hydrozirconation and hydrostannation, together with Pdo catalysed coupling, are used to make (2E,4E,6Z)-, (2E,4E,6E)- and (2E,4Z,6E)-tetraenol stems as synthetic intermediates for synthesis of the AF-IIa, and -IIc, and the AK-II, host-selective plant toxins. HG CO<sub>2</sub>H

