## **GRAPHICAL ABSTRACTS**





Tetrahedron Lett. 30,807(1989) STEREOSELECTIVITIES OF MESITONITRILE OXIDE CYCLOADDITIONS TO 7-SUBSTITUTED NORBORNADIENES Lorenzo Dal Bo, Marco De Amici, Carlo De Micheli, Remo Gandolfi and K. N. Houk Istituto Chimico Farmaceutico dell' Universita de Milano, Viale Abruzzi 42, 20121 Milano, Italy; Istituto di Chimica Organica, Universita di Pavia, Viale Taramelli 10, 27100 Pavia, Italy; Department of Chemistry and Biochemistry, University of California, Los Angeles, California 90024, U.S.A. The stereochemistries of cycloadditions of mesitonitrile oxide to norbornadiene and nine 7-substituted derivatives have been investigated. The stereoselectivities are controlled primarily by torsional effects which are altered by 7 substituents. Tetrahedron Lett. 30,811(1989) FACILE CHEMO-ENZYMATIC SYNTHESES OF SELECTIVELY PROTECTED DERIVATIVES OF DEOXY-INOSITOLS H.Hönig\*, P.Seufer-Wasserthal, A.E.Stütz and E.Zenz, Institute of Organic Chemistry Graz University of Technology, Stremayrgasse 16, A-8010 Graz, Austria Selectively substituted 3-deoxy-epi-(e.g. 2, 4) and 1-deoxy-scyllo-inositol 08n derivatives (e.g. 6) conveniently can  $\frac{2}{3}R = COC_{2}H_{7}$ сосун, <u>6</u> к = сос<sub>и</sub>н, 7 к = н be prepared by chemo-enzymatic methods. 8 Tetrahedron Lett. 30,813(1989) FACILE ENZYMATIC SYNTHESIS OF LABELLED GERANYL PYROPHOSPHATE Lutz Heide<sup>\*a</sup> and Mamoru Tabata<sup>b</sup> Institut für Pharmazeutische Biologie, Universität Bonn, 53 Bonn 1, W. Germany<sup>a</sup>; Department of Pharmacognosy, Faculty of Pharmaceutical Sciences, Kyoto University, Kyoto 606, Japan<sup>b</sup> An enzymatic synthesis of  $\begin{bmatrix} 1-14c \end{bmatrix}$  geranyl pyrophosphate from  $\begin{bmatrix} 1-14c \end{bmatrix}$  isopentenyl pyrophosphate and dimethylallyl pyrophosphate in 50 % yield. OPP JPP Tetrahedron Lett.30,817(1989) A VERY SIMPLE ONE-POT SYNTHESIS OF 2-CHLOROPHOSPHININES Pascal LE FLOCH and François MATHEY Laboratoire de Chimie du Phosphore et des Métaux de Transition DCPH - Ecole Polytechnique, 91128 FALAISEAU Cédex (France)  $Cl_2P - CHCl_2 \xrightarrow{Et_3N} [ClP = CCl_2] \xrightarrow{h} [ClP = CclP = CclP$ 



Tetrahedron Lett.30,837(1989) ONE-POT TRANSFORMATION OF AZIDO-GROUP TO N-(t-BUTOXYCARBONYL)AMINO GROUP Seiki Saito,\* Hitoshi Nakajima, Masami Inaba, and Toshio Moriwake\* Department of Applied Chemistry, Faculty of Engineering, Okayama University, Tsushima, Okayama, Japan, 700 Pd-C/H<sub>2</sub> /Boc<sub>2</sub> O EtOAc rt HBoc Tetrahedron Lett. 30,839(1989) A NEW DIRECT METHOD FOR INTRODUCING 2-(2,4,6-TRI-t-BUTYL-PHENYL)-2-PHOSPHAVINYLIDENE GROUP, FORMATION OF 1-PHOSPHA-AND 1.3-DIPHOSPHA-ALLENES Masaaki Yoshifuji,\* Shigeru Sasaki, and Naoki Inamoto Department of Chemistry, Faculty of Science, The University of Tokyo, Hongo, Tokyo 113, Japan 2-Phosphavinylidene group "ArP-C" was introduced by silyllithium 9 toward carbonyl compounds to give 1-phosphaallenes (10, 11), whereas 1,3-diphosphaallene 3 was prepared by the reaction of 7 toward ArP(H)Cl followed by dehydrochlorination.  $ArP=C(C1)Li \longrightarrow ArP=C(C1)Tms \longrightarrow ArP=C(Li)Tms \xrightarrow{RR'CO} ArP=C=CRR'$ ArP(H)Cl\_\_\_\_\_ DBU ArP=C=PAr 0 10, 11 7  $(Ar=2, 4, 6-Bu^{t}_{3}C_{6}H_{2}; R, R'=Ph, H)$ 3 Tetrahedron Lett. 30,843(1989) FACILE SYNTHESIS OF (2E,4E)-DIENOIC ESTERS VIA STEREOSELECTIVE ISOMERIZATION OF 2-YNOIC ESTERS Dawei Ma and Xiyan Lu\* Shanghai Institute of Organic Chemistry, Academia Sinica, Shanghai, China (2E,4E)-Dienoic esters were synthesized stereoselectively from the 2-ynoic esters in high yield under the catalysis of an iridium hydride or ruthenium hydride complex.  $R^{1} \longrightarrow OR^{2} \xrightarrow{Catalyst, n-Bu_{3}P} R^{1} \longrightarrow OR^{2}$ toluene, reflux Tetrahedron Lett. 30,845(1989) DISSOLVING METAL REDUCTION WITH CROWN ETHER ---REDUCTIVE\_REMOVAL OF ISOCYANO GROUPS Tomihiko Ohsawa<sup>\*</sup>, Naoki Mitsuda, Jun'ichi Nezu, Takeshi Oishi<sup>\*</sup> RIKEN(The Institute of Physical and Chemical Research) Wako, Saitama, 351-01 Japan MePh K/crown ether/toluene system can cleave C-NC in an almost RNH, κī н quantitative fashion. MePh R-H





