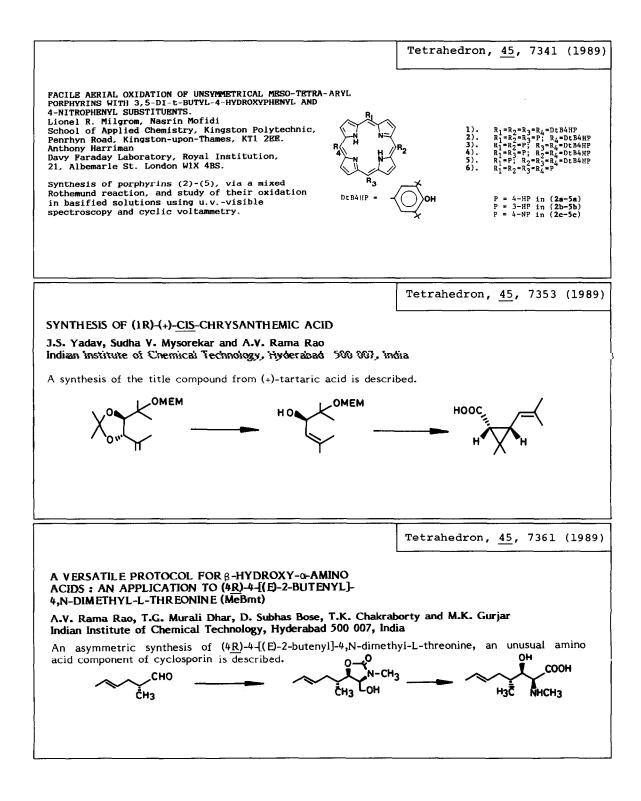


v



$$\frac{\operatorname{Tetrahedron, } 45, 7371 (1989)}{\operatorname{PARTIERCORLCH}}$$
SYNTHETIC STUDIES ON BIOLOGICALLY ACTIVE MATURAL COMPOLINGS.  

$$(-)-CIMANDOIL.
$$(-)-CIMANDOIL.$$

$$(-)-CIMANDOIL.
$$(-)-CIMANDOIL.$$

$$(-)-CIMANDOIL.
$$(-)-CIMANDOIL.$$

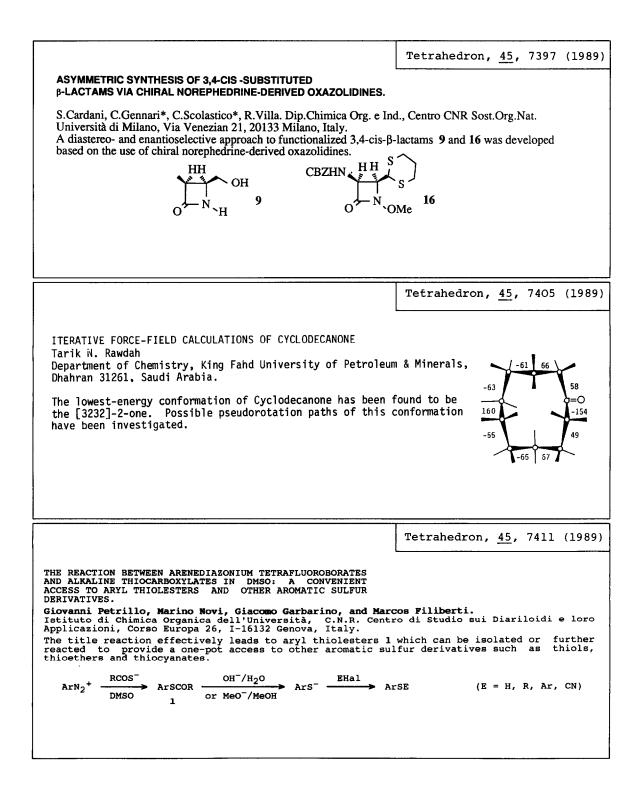
$$(-)-CIMANDOIL.
$$(-)-CIMANDOIL.$$

$$(-)-CIMANDOIL.
$$(-)-CIMANDOIL.$$

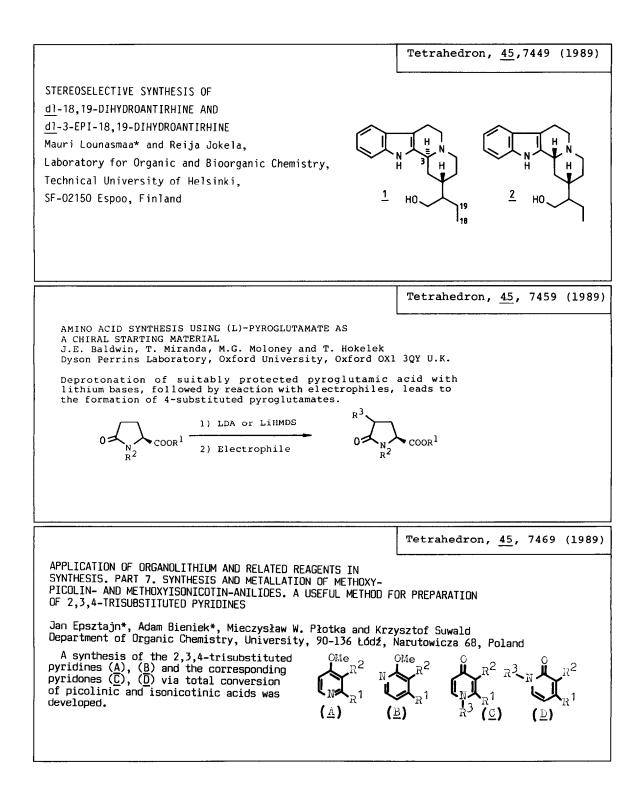
$$(-)-C$$

ł

٦



Tetrahedron, 45, 7421 (1989) NEW ENZYMATIC APPROACH TO THE SYNTHESIS OF CONVENIENT ASPARTIC ACID INTERMEDIATES IN PEPTIDE CHEMISTRY. SYNTHESIS OF N-BENZYLOXYCARBONYL-L-ASPARTIC ACID B-ALLYL ESTER. N. Xaus<sup>\*</sup>, P. Clapés, E. Bardají, J.L. Torres, X. Jorba, J. Mata and G. Valencia. Unit for Peptide Chemistry and Biochemistry. Centre d'Investigació i Desenvolupament (C.S.I.C.). Jordi Girona, 18-26. 08034 Barcelona. Spain. papain By the use of papain, side chain Z-Asp(OAll)-OH Z-Asp(0A11)-0A11 protected aspartic acid derivatives DTT, DMF, McIlvine, pH:5 can be easily obtained in bulk. Tetrahedron, 45, 7427 (1989) THE INTRAMOLECULAR NITRILE IMINE CYCLOADDITION ROUTE TO PYRAZOLO[1,5-a] [1,4] BENZODIAZEPINES. Luca Bruché and Gaetano Zecchi\* Dipartimento di Chimica Organica e Industriale, Universită di Nilano, Via Golgi 19, 20133 Milano, Italy The title ring system has been prepared through a synthetic sequence involving an intramolecular nitrile imine cycloaddition as the key step. COOF+ CH\_=CH-CH\_-4 steps Tetrahedron, 45, 7433 (1989) SYNTHESIS OF FRAGMENTS OF A STREPTOCOCCUS PNEUMONIAE TYPE SPECIFIC CAPSULAR POLYSACCHARIDE G.H. Veeneman, L.J.F. Gomes and J.H. van Boom Gorlaeus Laboratory, P.O. Box 9502, 2300 RA Leiden, R,O The Netherlands R.C Assemblage of properly protected sugar units afforded inter alia the fully protected fragment 1 which, after removal of all protecting R. - CBJ CH CH groups, was converted into the spacer contain-2 в, ing tetramer 2.



Tetrahedron, 45, 7477 (1989) THE SOLUTION STRUCTURE OF ALFILERAMINE. NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY AND MOLECULAR MECHANICS STUDY Manuel Marcos, Mary Carmen Villaverde, Ricardo Riguera, Luis Castedo\* and Frank Stermitzt. Departamento de Ouímica Orgánica, Facultad de Química, Santiago de Compostela, Spain. †Department of Chemistry, Colorado State University, Fort Collins, CO 80523, U.S.A. NMe. Alfileramine (1) exists in solution as an equilibrium mixture of two rotamers around the bond between C-5 and C-5'. 1 Tetrahedron, 45, 7485 (1989 SYNTHESIS AND REACTIVITY OF 2-DIMETHYLAMINO-4-ALKENYL-1.3-OXAZIN-6-ONES Eale M. Beccalli. Alessandro Marchesini and Tullio Pilati. Dipartimento di Chimica Organica e Industriale, Università degli Studi di Milano, Via C. Golgi 19. 20133 Milano, Italy. MF. POCIa  $\Delta$  cher. From oxazinones 2 and 6, depending on substitution pattern,  $\alpha$ -pyrones, 2-pyridones and pyridines may be obtained. The results confirm the thermal equilibrium between 2-dialkylamino-1,3-oxazin-6-ones, iminoketenes and vinylisocyanates. Tetrahedron, 45, 7501 (1989) THE ACID-BASE PROPERTIES OF PYRROLE AND ITS BENZOLOGS INDOLE AND CARBAZOLE. A REEXAMINATION FROM THE EXCESS ACIDITY METHOD. M. Balón Almeida, M.C. Carmona Guzmán, M.A. Muñoz Perez and J. Hidalgo Toledo Departamento Química Física, Facultad Farmacia, Universidad Sevilla, 41012 Sevilla, Spain. Thermodynamic pK\_ values and m\* solvation parameters for the following equilibria have been obtained using the Excess Acidity Method.

	r
	Tetrahedron, <u>45</u> , 7505 (1989)
<ul> <li>BIOTRANSFORMATIONS OF FLUORINATED SULPHENYL AND SULPHONYL COMPOUNDS</li> <li>M. Bucciarelli,<sup>a</sup> A. Forni,<sup>a</sup> I. Moretti,<sup>a*</sup> F. Prati,<sup>a</sup> G. Torre,<sup>a</sup> G. Ress a) Dipartimento di Chimica, via Campi 183, 41100 Modena; b) Dipartimento di da Vinci 32, Milano, ITALY.</li> <li>Optically active sulphenyl and sulphonyl fluorohydrins 1(a-e) ar yeast reduction of ketones or by enantioselective hydrolysis of e p-Tol - (X) - CH<sub>2</sub> - CH - CF - R<sub>1</sub> 1 (X= S OH R<sub>2</sub> a)R<sub>1</sub>= H, R<sub>2</sub>= H; b)R<sub>1</sub>= CH<sub>3</sub>, R<sub>2</sub>= H; c)R<sub>1</sub>= CH<sub>2</sub>CH=CH<sub>2</sub>, R<sub>2</sub>= H; d)R</li> </ul>	di Chimica del Politecnico, Piazza Leonardo nd <b>2(a-d)</b> were obtained by baker's ester derivatives with lipase. S); <b>2</b> (X= SO <sub>2</sub> )
	Tetrahedron, <u>45</u> , 7515 (1989)
<ul> <li>THE STRUCTURE OF SULTONE FORMED IN REYCHLER'S REACTION</li> <li>Róża ANTKOWIAK<sup>§</sup>, Wiesław Z. ANTKOWIAK<sup>§*</sup> and Karol § Faculty of Chemistry, A. Mickiewicz University, Grunwaldzka 6, 60-780 Poznań, Poland</li> <li># CMMS, Polish Academy of Sciences, Sienkiewicza 113, 90-363 Łódź, Poland</li> <li>The structure of 4-acetoxy-2-exo-hydroxybornane-1 acid sultone was elucidated by two dimensional NMR</li> </ul>	0-sulfonic
	Tetrahedron, <u>45</u> , 7523 (1989
<ul> <li>INTRA- AND INTERMOLECULAR NUCLEOPHILIC PHOSPHORUS-SULFUR BONI CLEAVAGE. THE REACTION OF FLUORIDE ION WITH O-ARYL-O,S-DIALKYLPP DEGRADATION OF PHOSPHOROTHIOATE LINKAGE IN di-RIBONUCLEOTIDES I</li> <li>C. Sund and J. Chattopadhyaya*, Dept. of Bioorganic Chemistry, B Biomedical Center, University of Uppsala, S-751 23 Uppsala, Sweat</li> <li>Preparation of Nucleoside 3'- and 5'-O-phosphorofluoridates 1 and the instability of phosphorothioate linkage in di-ribonucleoside(3'-5') phosphorothioate 2 are described.</li> </ul>	HOSPHOROTHIOATES, & THE BY THE VICINAL 2'-HYDROXYL FUNCTION.

Tetrahedron, 45, 7545 (1989) HYDROGEN ABSTRACTION FROM THE ISOMERIC CYMENES A. Sulpizio, M. Mella and A. Albini Dipartimento di Chimica Organica, Università, I-27100 Pavia, Italy The NO3 radical forms a charge transfer face-to-face complex with aromatics, similarly to  $\pi\pi$  excited states, and different from the perpendicular complex formed by alkoxy radicals and  $\pi \pi^{\star}$  excited states. CT CH2ONO2 CT CHO NO3 -CH2NO2 Tetrahedron, 45, 7553 (1989) DIASTEREOSELECTIVITY IN THE CYCLIZATION OF 1-[2-(BENZYLOXYMETHYL)-3-BUTENYL]-5-ETHOXY-2-PYRROLIDINONES Johannes N. Zonjee, Henk de Koning, and W. Nico Speckamp,\* Laboratory of Organic Chemistry, University of Amsterdam, Nieuwe Achtergracht 129, 1018 WS Amsterdam, The Netherlands. The effect of certain substituents  $R^1$  and/or  $R^2$  on the diastereoselectivity of the N-acyliminium cyclization depicted below is discussed.  $\int_{\frac{1}{2}}^{p_{h}} \frac{1}{2} \frac{1}{NH_{2}} \frac{1}{MH_{2}} \left[ R + \int_{\frac{1}{2}}^{R} \frac{1}{2} \frac{1}{NH_{2}} + \frac{1}{NH_{2}} \frac{1$ Tetrahedron, 45, 7565 (1989) PREPARATION OF β-KETOMACROLACTONES AND β-KETODIOLIDES USING S-t-BUTYL 3-OXOBUTANETHIOTE AND S-t-BUTYL 4-DIETHYLPHOSPHONO-3-OXOBUTANETHIOATE Paul M.Booth, Howard B.Broughton, Mark J.Ford, Christina M.J.Fox, Steven V.Ley\*, Alexandra M.Z.Slawin, David J.Williams and Peter R.Woodward. Department of Chemistry, Imperial College of Science, Technology and Medicine, London SW7 2AY, U.K. Using S-t-butyl 3-oxobutanethioate and S-t-butyl 4-diethylphosphono-3-oxobutanethioate various homologation reactions with t-butyldimethylsilyl protected hydroxy-iodides and aldehydes are reported. The products of these reactions after deprotection may be treated with copper (I) trifluoroacetate to afford  $\beta$ -ketomacrolide or  $\beta$ -ketomacrodiolides ranging in ring size from 13 to 32 depending upon the linking carbon atom chains and the reaction conditions. Several of the macrocyclic structures have been studied by X-ray crystallographic methods to determine their solid state conformations.

