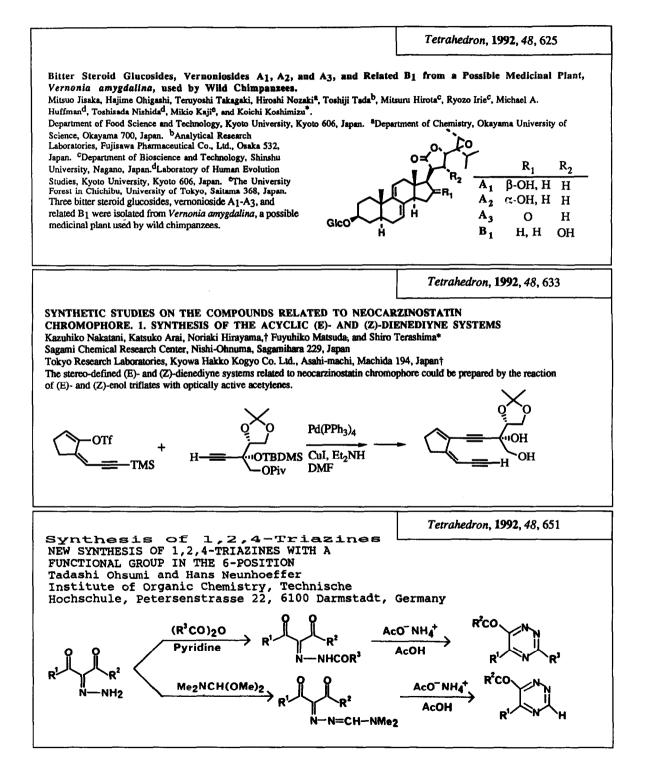
GRAPHICAL ABSTRACTS

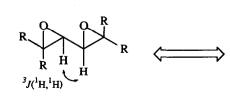


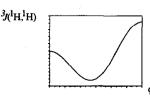
Tetrahedron, 1992, 48, 663 AROMATIC SOLVENT-INDUCED SHIFTS IN THE ¹H-NMR SPECTRA OF NITRONES Hans Günter Aurich^{*}, Michael Franzke and Hans Peter Kesselheim Fachbereich Chemie, University of Marburg, Hans-Meerwein-Straße, D-3550 Marburg, FRG The NMR proton signals at the E-side of the nitrone group are more extensively shifted to higher field by aromatic solvents than the proton signals at the Z-side. E - side Tetrahedron, 1992, 48, 669 STERIC EFFECTS ON REGIOSELECTIVITY IN 1.3-DIPOLAR CYCLOADDITION OF C.N-DIALKYL NITRONES WITH ACCEPTOR-SUBSTITUTED ALKYNES Hans Günter Aurich^{*}, Michael Franzke, Hans Peter Kesselheim and Markus Rohr Fachbereich Chemie, University of Marburg, Hans-Meerwein-Straße, D-3550 Marburg, FRG In 1.3-dipolar cycloaddition reactions of C,N-dialkylnitrones with acceptor-substituted alkynes the product ratio 4-substituted/5-substituted 4-isoxazoline is affected by the steric demand of both of the alkyl groups R¹ and R².

CONFORMATIONAL DEPENDENCE OF THE VICINAL ¹H,¹H COUPLING CONSTANT IN 1,2:3,4-DIEPOXIDES

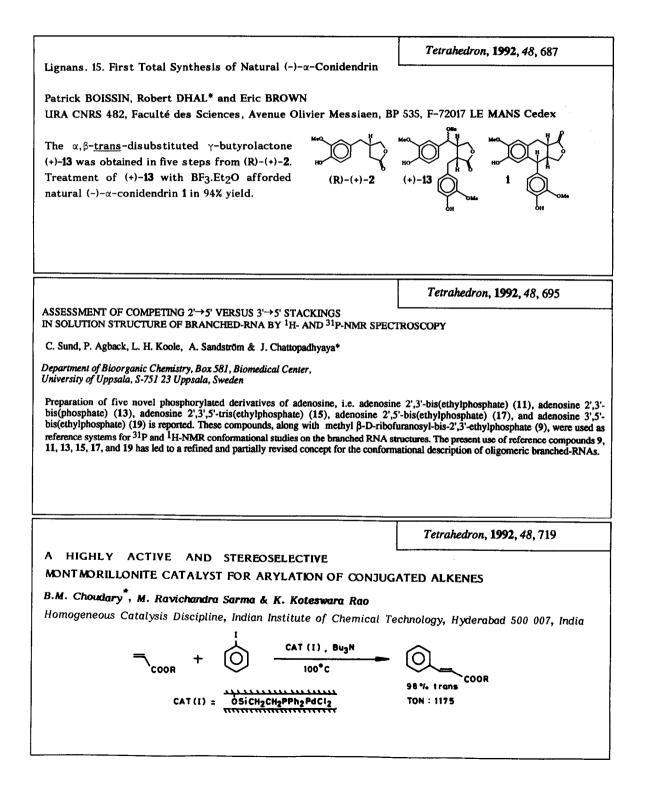
Martin Nikles, Urs Séquin* Institut für Organische Chemie, Universität Basel, St. Johanns-Ring 19, CH-4056 Basel, Switzerland

For 1,2:3,4-diepoxides a *Karplus*-like relationship between the torsional angle ϕ around the inter-epoxide bond and the vicinal coupling constant ${}^{3}J({}^{1}H,{}^{1}H)$ was found.





Tetrahedron, 1992, 48, 683



Tetrahedron, 1992, 48, 727 Total Synthesis of 1,5-Dideoxy-1,5-iminoalditols Gloria Rassu,* Luigi Pinna, Pietro Spanu, Nicola Culeddu, Giovanni Casiraghi,* Giovanna Gasparri Fava, Marisa Belicchi Ferrari, and Giorgio Pelosi Dipartimento di Chimica dell'Università and CNR, I-07100 Sassari, Italy and Istituto di Chimica Generale dell'Università and CNR, I-43100 Parma, Italy Enantiomerically pure iminoheptitol 10 was synthesized in ca. 9% overall yield via a six-steps sequence by starting with D-glyceraldehyde imine 1 and 2-(trimethylsiloxy)furan 2. NBn OTMS six steps HOw ЮН HO 2 10 Tetrahedron, 1992, 48, 743 RING-OPENING REACTIONS OF N-ARYL-1,2,3,4-TETRAHYDROISOQUINOLINE DERIVATIVES K A Hedley and S P Stanforth*, Department of Chemical & Life Sciences, Newcastle upon Tyne Polytechnic, Newcastle upon Tyne, NE1 8ST. Isoquinolines 1 gave carbonyl compounds 2 rather than hemi-aminals 3 when treated with NBS. COR1 R⁴ ъ4 HŃ R٩ R 1 OH R1 **R**² R 3 R² ₽3 R² R³ 2 3 1 Tetrahedron, 1992, 48, 751 NEW APPROACHES TO PYRROLO[2,1-c][1,4]BENZODIAZEPINES: SYNTHESIS, DNA-BINDING AND CYTOTOXICITY OF DC-81 D. Subhas Bose, Gary B. Jones, and David E. Thurston Division of Medicinal Chemistry, School of Pharmacy and Biomedical Sciences, Portsmouth Polytechnic, Park Building, King Henry Ist Street, Portsmouth, Hants. PO1 2DZ, UK. нο Two routes to the antitumour antibiotic DC-81 (1) are described, one of which involves a novel cyclization method based on Amberlite IR-120(H⁺) resin. CH₃O The second route utilizes a new compound, 6-nitrovanillic acid, as a key intermediate. DC-81 has been evaluated for DNA-binding and cytotoxicity.

Tetrahedron, 1992, 48, 759

SYNTHESIS OF YUEHCHUKENE AND SOME ANALOGUES - A GENERAL APPROACH Jan Bergman* and Lennart Venemalm* Department of Organic Chemistry, Royal Institute of Technology, S-100 44 Stockholm, SWEDEN, and Department of Organic Chemistry, CNT, Novum Research Park, S-141 57 Huddinge, SWEDEN Yuehchukene and a number of structural analogues were synthesized by intramolecular ring closure of $\alpha_{s}\beta_{s}$ unsaturated 2-acyl indoles in the key step. Tetrahedron, 1992, 48, 769 TWO NEW TRITERPENE DIMERS FROM CELASTRACEAE, PARTIAL SYNTHESIS/ANTIMICROBIAL ACTIVITY. Antonio, G. González, José S. Jiménez, Laila M. Moujir*, Angel. G. Ravelo, Javier. G. Luis, Isabel L. Bazzocchi and Angel. M. Gutiérrez* CPNO Antonio González, *Dpto. Microbiología y Biología Celular, Univ. de La Laguna, Canary Islands, Spain. Two new triterpene dimers oxidized tingenone with structures have been obtained from Maytenus umbellata from Madeira, synthesized and assayed for antimicrobial activity. 10 TINGENON/ R=a Me UMBELLATIN a 8 R-\$ Me UMBELLATIN \$