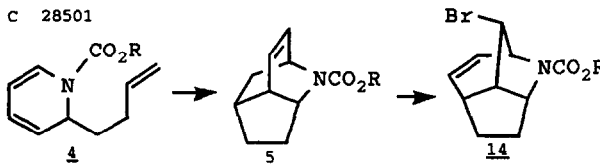


Tetrahedron, 1991, 47, 8499

AZATRICYCLES FROM SUBSTITUTED PYRIDINES SYNTHESIS AND REARRANGEMENT OF N-ETHOXYCARBONYL-2-AZATRICYCLO[4.3.1.0^{3,7}]DEC-8-ENES

Grant R Krow,^a Yoon B Lee,^a Ramesh Raghavachari,^a Steven W Szczepanski,^a and Peter V Alston^b
^aDepartment of Chemistry, Temple University, Philadelphia, PA 19122, ^b Textile Fibers Dept , E I DuPont de Nemours & Co , Kinston, N C 28501

A study of alkyl substituent effects on the synthesis and rearrangement of 4 has been carried out



Tetrahedron, 1991, 47, 8515

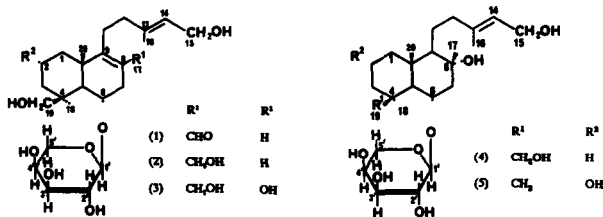
GAUDICHAUDIOSIDES A-E, FIVE NOVEL DITERPENE GLYCOSIDE CONSTITUENTS FROM THE SWEET-TASTING PLANT, BACCHARIS GAUDICHAUDIANA

Fekadu Fullas,^a Raouf A. Huseain,^a Eugenia Bordes,^b John M Pezzuto,^a Djaja D Soejarto,^a and A Douglas Kinghorn^{a*}

^aProgram for Collaborative Research in the Pharmaceutical Sciences, College of Pharmacy, University of Illinois at Chicago, IL 60612

^bFacultad de Farmacia, Universidad Católica, "Nuestra Señora de la Asunción," Ciudad del Este, Paraguay

Five novel labdane-type arabinosides, gaudichaudiosides A-E (1-5), were isolated and characterized from the aerial parts of *Baccharis gaudichaudiana* DC (Compositae)

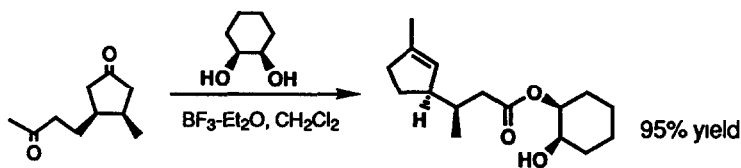


Tetrahedron, 1991, 47, 8523

AN INSIGHT INTO THE NOVEL RING TRANSFORMATION REACTIONS USING ETHYLENE GLYCOL/BF₃

Takayoshi Yamamoto, Hiroshu Suemune, and Kiyoshu Sakai*

Faculty of Pharmaceutical Sciences, Kyushu University, Fukuoka 812, Japan

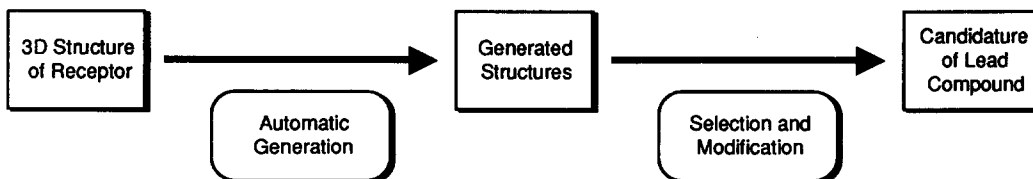


A PROGRAM FOR AUTOMATIC CREATION OF DRUG CANDIDATES STRUCTURES BASED ON RECEPTOR STRUCTURE. START FOR ARTIFICIAL LEAD GENERATION.

Yoshihiko Nishibata and Akiko Itai

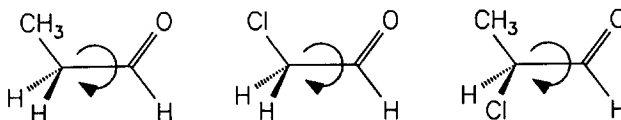
Faculty of Pharmaceutical Sciences, University of Tokyo
3-1 Hongo 7-chome, Bunkyo-ku Tokyo 113 Japan

We have developed a new method for automatic generation of drug candidate structures based on the known receptor structures.



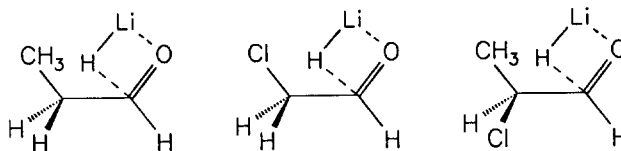
ON THE ORIGIN OF π -FACIAL DIASTEREO-SELECTIVITY IN NUCLEOPHILIC ADDITIONS TO CHIRAL CARBONYL COMPOUNDS. 1. ROTATIONAL PROFILES OF PROPIONALDEHYDE 1, CHLOROACETALDEHYDE 2, AND 2-CHLOROPROPIONALDEHYDE 3

G. Frenking*, K.F. Köhler, and M.T. Reetz*; Fachbereich Chemie, Universität Marburg, Hans-Meerwein-Strasse, D-3550 Marburg, Germany.



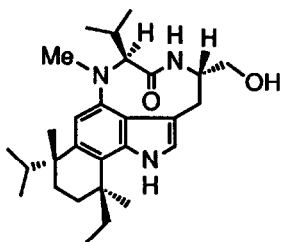
ON THE ORIGIN OF π -FACIAL DIASTEREO-SELECTIVITY IN NUCLEOPHILIC ADDITIONS TO CHIRAL CARBONYL COMPOUNDS. 2. CALCULATED TRANSITION STATE STRUCTURES FOR THE ADDITION OF NUCLEOPHILES TO PROPIONALDEHYDE 1, CHLOROACETALDEHYDE 2, AND 2-CHLOROPROPIONALDEHYDE 3

G. Frenking*, K.F. Köhler, and M.T. Reetz*; Fachbereich Chemie, Universität Marburg, Hans-Meerwein-Strasse, D-3550 Marburg, Germany.

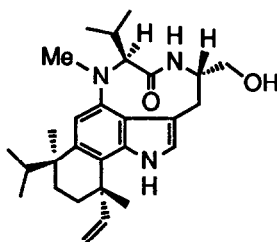


**SYNTHESIS OF TELEOCIDINS A, B AND THEIR CONGENERS. PART 3.
SYNTHESIS OF DIHYDROTELEOCIDIN B-4 (DIHYDROTELEOCIDIN B),
TELEOCIDIN B-3 AND TELEOCIDIN B-4**

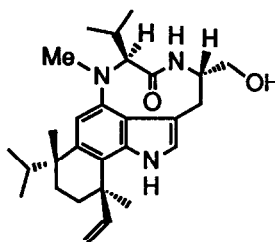
Kazuaki Okabe, Hideaki Muratake and Mitsutaka Natsume
Research Foundation Itsuu Laboratory
2-28-10 Tamagawa, Setagaya-ku, Tokyo 158, Japan



Dihydroteleocidin B-4



Teleocidin B-3



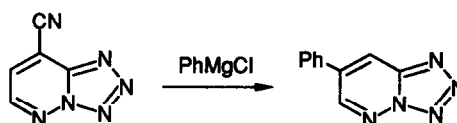
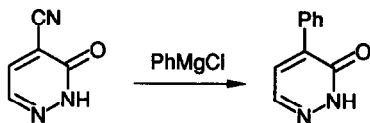
Teleocidin B-4

**PYRIDAZINES - 61. UNEXPECTED REACTION
BEHAVIOUR OF PYRIDAZINECARBONITRILE
DERIVATIVES TOWARDS PHENYLMAGNESIUM CHLORIDE**

Norbert Haider,* Gottfried Heinisch and Joran Moshuber

Institute of Pharmaceutical Chemistry, University of Vienna, Währinger Straße 10, A-1090 Vienna, Austria

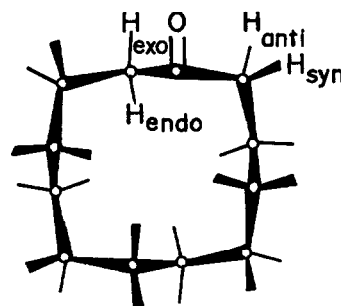
Reactions of 4-cyano-3(2H)-pyridazinone and tetrazolo[1,5-b]pyridazine-8-carbonitrile with phenylmagnesium chloride were found to be governed by formal replacement of the nitrile function to afford phenyl-substituted pyridazine derivatives rather than the expected aryl heteroaryl ketones.



**NMR SPECTROSCOPIC STUDY OF THE CONFORMATIONAL FEATURES
OF CYCLODODECANONE**

Tarik N. Rawdah
Department of Chemistry, King Fahd University of Petroleum
and Minerals, Dhahran 31261, Saudi Arabia

Proton NMR spectra of some deuterated isotopomers of cyclododecanone at ca. -142°C can be interpreted in terms of a [3333]-2-one conformation, in agreement with carbon-13 NMR data. Assignments of some protons of cyclododecanone are reported.



Al-NiCl₂·6H₂O-THF : A NEW, MILD AND NEUTRAL SYSTEM FOR SELECTIVE REDUCTION OF ORGANIC FUNCTIONAL GROUPS.

Bhabani K. Sarmah and Nacin C. Barua*

Division of Natural Products Chemistry, Regional Research Laboratory (CSIR), Jorhat 785 006, Assam, India

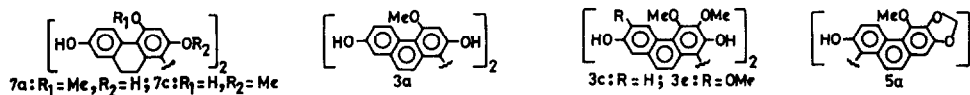
Summary : A mild and neutral reducing system consisting of Al-NiCl₂·6H₂O-THF has been developed and reacted with a series of organic compounds containing different functional groups in order to evaluate its synthetic utility.

NOVEL OXIDATIVE PHENOL-COUPLING REACTION WITH PHOSPHOMOLYBDIC ACID ON SILICA GEL SUPPORT : REGIOSELECTIVE BIOMIMETIC SYNTHESIS OF DIMERIC PHENANTHRENE DERIVATIVES

P.L. Majumder* and Mausumi Basak

Department of Chemistry, University College of Science, 92, A.P.C. Road, Calcutta 700 009, India.

Regioselective biomimetic synthesis of flavanthrin (7a), cirrhopetalanthrin (3a) and their structural analogues 3c, 3e, 5a and 7c and also of 1,1'-dimer of β-naphthol by oxidative coupling of their respective monomers with phosphomolybdic acid on silica gel support.

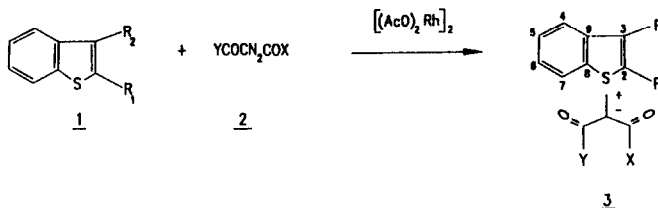


BENZO[b]THIOPHENIUM S,C-YLIDES: PREPARATION, STRUCTURE AND COMPARISON WITH THIOPHENIUM ANALOGUES

E Vuonnen,^a A A Chalmers,^a J L M Dillen,^b and T A Modro^{b*}

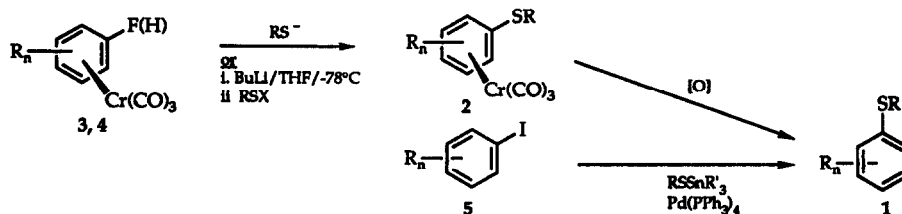
^aDivision of Material Science and Technology, Council for Scientific and Industrial Research, Pretoria 0001, South Africa, ^bDepartment of Chemistry, University of Pretoria, Pretoria 0002, South Africa

Ylides **3** were prepared and their structure and stereoisomerism was studied by NMR (¹H, ¹³C) spectroscopy and X-ray diffraction



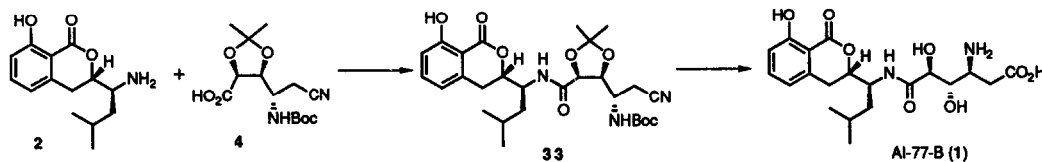
Transition Metal Mediated Thiation of Aromatic Rings.

Michael J Dickens, John P Gilday, Timothy J Mowlem and David A Widdowson*, Department of Chemistry, Imperial College, London SW7 2AY, U.K.

Efficient Total Synthesis of AI-77-B, A Gastroprotective Substance from *Bacillus pumilus* AI-77

Yasumasa Hamada,* Osamu Hara, Akiyoshi Kawai, Yasushi Kohno, and Takayuki Shouri*
Faculty of Pharmaceutical Sciences, Nagoya City University, Tanabe-dori, Mizuho-ku, Nagoya 467, Japan

First total synthesis of AI-77-B (1), a gastroprotective substance from *Bacillus pumilus* AI-77, has been achieved in a stereoselective and convergent manner



The Conformational Preferences of Isomeric Naphthaldehydes as Determined by NOE Experiments

Tetrahedron, 1991, 47, 9125

L. Lunazzi,* G. Placucci. Department of Organic Chemistry "A. Mangini", the University, Bologna, Italy; D. Macchiarelli. I.Co.C.E.A., C.N.R., Ozzano E.

NOE experiments show that 1-naphthaldehyde (1) is 85% in the Z-conformation whereas 2-naphthaldehyde (2) is 88% in the E conformation

