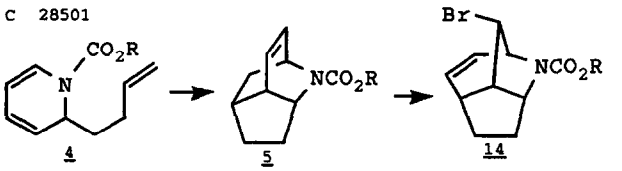
Tetrahedron, **1991**, *47*, 8499

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]
[a]Department 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 5 has been carried out



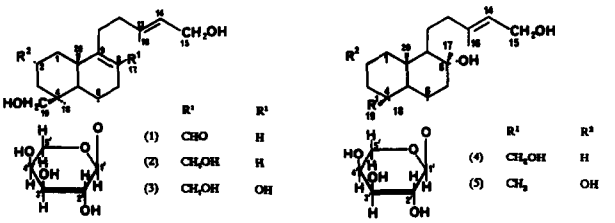
4 5 14

Tetrahedron, **1991**, *47*, 8515

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

Fekadu Fullas,[a] Raouf A. Hussain,[a] Eugenia Bordas,[b] John M Pezzuto,[a] Djaja D Soejarto,[a] and A Douglas Kinghorn[a*]
[a]Program for Collaborative Research in the Pharmaceutical Sciences, College of Pharmacy, University of Illinois at Chicago, IL 60612
[b]Facultad de Farmacía, Universidad Católica, "Nuestra Señora de la Asunción," Ciudad del Este, Paraguay

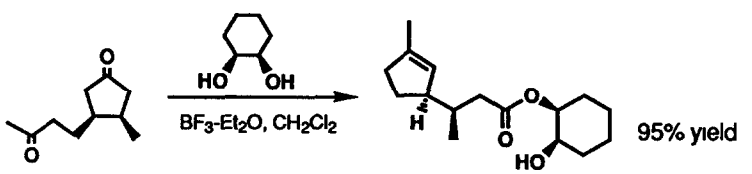
Five novel labdane-type arabinosides, gaudichaudiosides A-E (1-5), were isolated and characterized from the aerial parts of *B gaudichaudiana* DC (Compositae)



Tetrahedron, **1991**, *47*, 8523

AN INSIGHT INTO THE NOVEL RING TRANSFORMATION REACTIONS USING ETHYLENE GLYCOL/BF_3

Takayoshi Yamamoto, Hiroshi Suemune, and Kiyoshi Sakai*
Faculty of Pharmaceutical Sciences, Kyushu University, Fukuoka 812, Japan

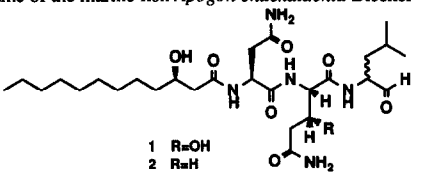


Tetrahedron, **1991**, *47*, 8529

Fellutamides A and B, Cytotoxic Peptides from a Marine Fish-possessing Fungus *Penicillium fellutanum*

Hideyuki Shigemori, Shinobu Wakuri,[a] Kazunaga Yazawa,[a] Takemichi Nakamura,[b] Takuma Sasaki,[c] and Jun'ichi Kobayashi*
Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo 060, Japan, [a]Sagami Chemical Research Center, Kanagawa 229, Japan, [b]Analytical and Metabolic Research Laboratory, Sankyo Co., Ltd., Tokyo 140, Japan, and [c]Cancer Research Institute, Kanazawa University, Kanazawa 920, Japan

Fellutamides A (1) and B (2), cytotoxic peptides, have been isolated from the cultured fungus *Penicillium fellutanum* Biourge, which was isolated from the gastrointestine of the marine fish *Apogon endekataenia* Bleeker

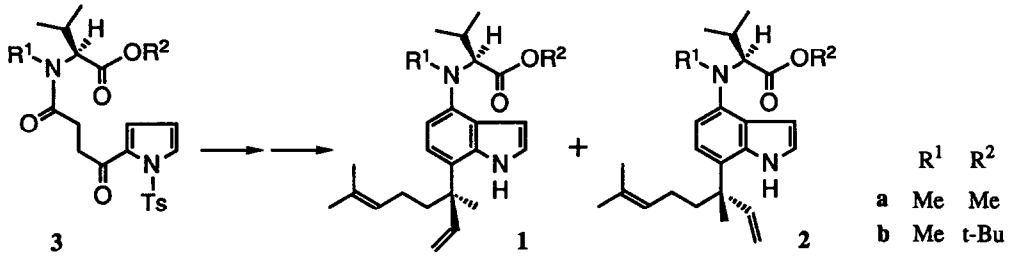


Tetrahedron, **1991**, *47*, 8535

SYNTHESIS OF TELEOCIDINS A, B AND THEIR CONGENERS. PART 1. AN EFFICIENT SYNTHESIS METHOD OF *N*-(7-ALKYL-4-INDOLYL)-*N*-METHYL-L-VALINE ESTERS, ESSENTIAL INTERMEDIATES FOR THE TELEOCIDIN SYNTHESIS

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

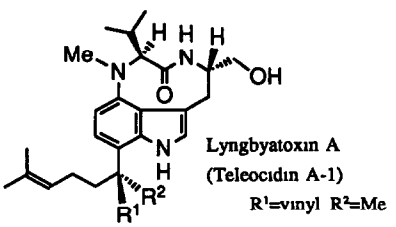
Essential intermediates for the teleocidin synthesis, *N*-(7-alkyl-4-indolyl)-L-valine esters (1 and 2) were synthesized in four steps from the readily available compound 3



Tetrahedron, **1991**, *47*, 8545

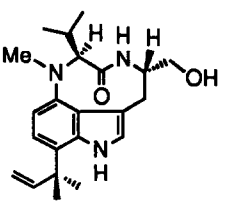
SYNTHESIS OF TELEOCIDINS A, B AND THEIR CONGENERS. PART 2. SYNTHESIS OF LYNGBYATOXIN A (TELEOCIDIN A-1), TELEOCIDIN A-2, PENDOLMYCIN, AND (*R*, *E*)- AND (*S*, *E*)-7-(3,7,11-TRIMETHYL-1,6,10-DODECATRIEN-3-YL)-(–)-INDOLACTAM V

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

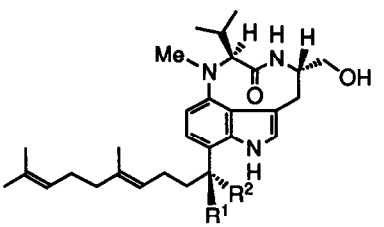


Lyngbyatoxin A
(Teleocidin A-1)
R¹=vinyl R²=Me

Teleocidin A-2 R¹=Me R²=vinyl



Pendolmycin

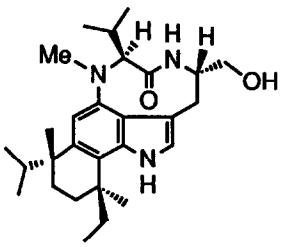


R¹=vinyl R²=Me R¹=Me R²=vinyl

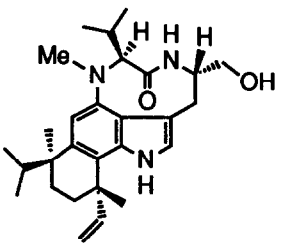
Tetrahedron, **1991**, *47*, 8559

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

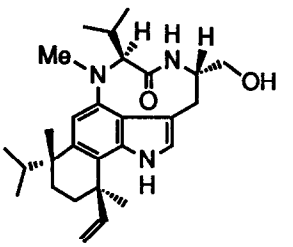
Kazuaki Okabe, Hideaki Muratake and Mitsutaka Natsume
Research Foundation Itsuu Laboratory
2-28-10 Tamagawa, Setagaya-ku, Tokyo 158, Japan



Dihydroteleocidin B-4



Teleocidin B-3



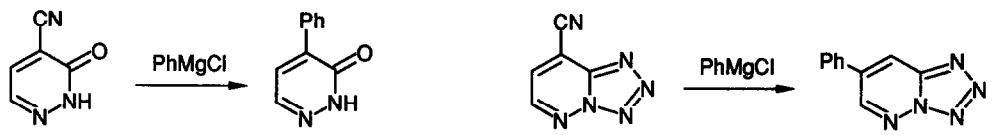
Teleocidin B-4

Tetrahedron, **1991**, *47*, 8573

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(2*H*)-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.

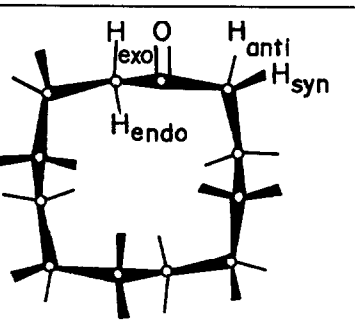


Tetrahedron, **1991**, *47*, 8579

NMR SPECTROSCOPIC STUDY OF THE CONFORMATIONAL FEATURES OF CYCLODODECANONE

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

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.



Tetrahedron, **1991**, *47*, 8587

Al-$NiCl_2 \cdot 6H_2O$-THF : A NEW, MILD AND NEUTRAL SYSTEM FOR SELECTIVE REDUCTION OF ORGANIC FUNCTIONAL GROUPS.

Bhabani K. Sarmah and Nasin C. Barua*
Division of Natural Products Chemistry, Regional Research Laboratory (CSIR), Jorhat 785 006, Assam, India

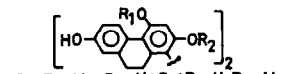
Summary : A mild and neutral reducing system consisting of Al-$NiCl_2 \cdot 6H_2O$-THF has been developed and reacted with a series of organic compounds containing different functional groups in order to evaluate its synthetic utility.

Tetrahedron, **1991**, *47*, 8601

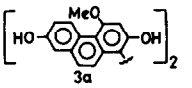
NOVEL OXIDATIVE PHENOL-COUPLING REACTION WITH PHOSPHOMOLYBDIC ACID ON SILICA GEL SUPPORT : REGIOSELECTIVE BIOMIMETIC SYNTHESIS OF DIMERIC PHENANTHRENE DERIVATIVES

P.L. Majumder* and Mausumi Basak
Department of Chemistry, University College of Science, 92,A.P.C.Road, Calcutta 700 009, India.

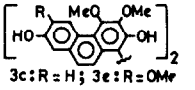
Regioselective biomimetic synthesis of flavanthrin (**7a**), cirrhopetalanthrin (**3a**) and their structural analogues **3c**, **3e**, **5a** and **7c** and also of 1,1´-dimer of β-naphthol by oxidative coupling of their respective monomers with phosphomolybdic acid on silica gel support.



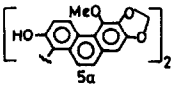
7a: R_1 = Me, R_2 = H; 7c: R_1 = H, R_2 = Me



3a



3c: R = H; 3e: R = OMe



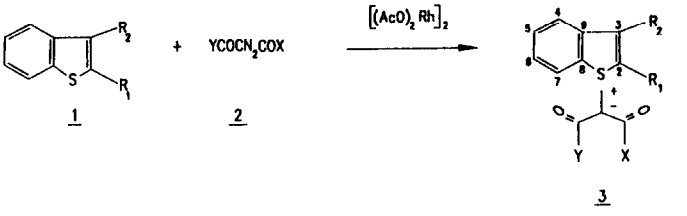
5a

Tetrahedron, **1991**, *47*, 8611

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

E Vuorinen,[a] A A Chalmers,[a] J L M Dillen,[b] and T A Modro[b]*
[a]Division of Material Science and Technology, Council for Scientific and Industrial Research, Pretoria 0001, South Africa, [b]Department of Chemistry, University of Pretoria, Pretoria 0002, South Africa

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

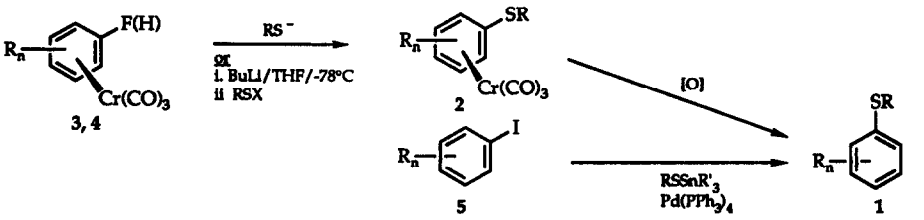


1 **2** **3**

Tetrahedron, **1991**, *47*, 8621

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.



Tetrahedron, **1991**, *47*, 8635

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 Shioiri*
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