GRAPHICAL ABSTRACTS

Tetrahedron, **1994**, *50*, 12571

BENZOTRIAZOLYLMETHYLAMINOSILANES: NOVEL AZOMETHINE YLIDE EQUIVALENTS

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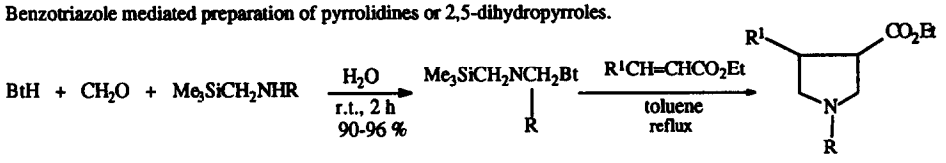
Center for Heterocyclic Compounds, Department of Chemistry,
University of Florida, FL 32611-7200

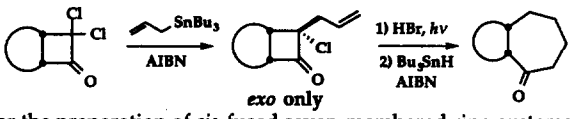
Benzotriazole mediated preparation of pyrrolidines or 2,5-dihydropyrroles.



Tetrahedron, **1994**, *50*, 12579

STEREOSELECTIVE ALLYLATION OF DICHLOROCYCLOBUTANONES AND SEQUENTIAL RING EXPANSIONS: CONSTRUCTION OF *CIS*-FUSED CYCLOHEPTANONES

Wei Zhang, Ye Hua, Steven J. Geib, Garrett Hoge and Paul Dowd*
Department of Chemistry, University of Pittsburgh, Pittsburgh, PA 15260, USA



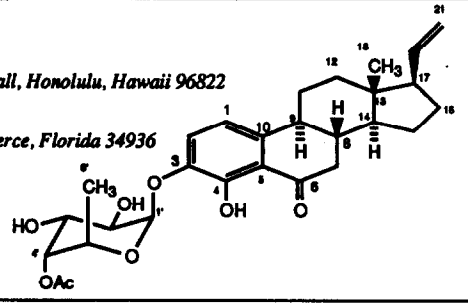
Stereoselective annulation of cyclic alkenes for the preparation of *cis*-fused seven-membered ring systems was accomplished by sequential [2 + 2] cycloaddition, *exo*-allylation, hydrohalogenation, and free radical ring expansion.

Tetrahedron, **1994**, *50*, 12593

HAPAIOSIDE: A 19-NORPREGNANE GLYCOSIDE FROM THE SPONGE *CRIBROCHALINA OLEMDA*.

Bryan K. S. Yeung, Mark T. Hamann, and Paul J. Scheuer*
Department of Chemistry, University of Hawaii at Manoa, 2545 The Mall, Honolulu, Hawaii 96822
Michelle Kelly - Borges
Harbor Branch Oceanographic Institution, 5600 North U. S. 1, Fort Pierce, Florida 34936

A 4-hydroxy-6-oxonorpregnane-3-glycoside with an aromatic ring A was isolated from a Pohnpei sponge, *Cribrochalina olemda*. The sugar is a 6'-deoxy-L-β-altropyranose-4'-acetate

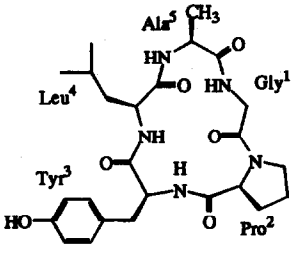


Tetrahedron, **1994**, *50*, 12599

Conformational Analysis of a Tyrosinase Inhibitory Cyclic Pentapeptide, Pseudostellarin A, from *Pseudostellaria heterophylla*

Hiroshi Morita, Takashi Kayashita, Koichi Takeya and Hideji Itokawa*

Department of Pharmacognosy, Tokyo College of Pharmacy, Horinouchi 1432-1, Hachioji, Tokyo 192-03, Japan,



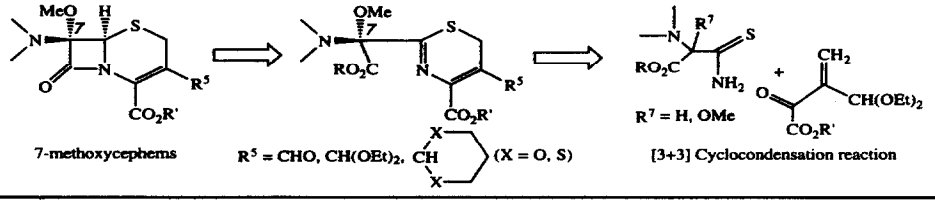
Pseudostellarin A (1)

α-Methoxy-α-(*6H*-1,3-thiazin-2-yl)glycinates precursors of *7-methoxycephems* by [3+3] cyclocondensation reaction

Tetrahedron, **1994**, *50*, 12609

Abdelhadi Boussoufi, Jean-Luc Parrain, Piétrick Hudhomme and Guy Duguay*- *Laboratoire de Synthèse Organique*, URA CNRS n°475, Faculté des Sciences et des Techniques, 2, rue de la Houssinière, 44072 Nantes Cedex 03, France.

The synthesis of functionalised *6H*-1,3-thiazinic cycloadducts, versatile key intermediates in the total multistep syntheses of 7-methoxycephems, as analogues of 7-methoxycephalosporins, was described using the *[3+3] cyclocondensation reaction.*



Reaction of P-Phenyl C-Aminophosphaalkenes with p-Chlorobenzonitrile Oxides. Thermal behaviour of the adducts

Tetrahedron, **1994**, *50*, 12625

Mustapha Rahmouni [1], Yeung Yat Cheng Yeung Lam Ko [1], Robert Carrié [1]*et François Tonnard [2]
1) Groupe de Physicochimie Structurale, U.R.A. C.N.R.S. n° 704, Université de Rennes I, Avenue du Général Leclerc, F 35042 RENNES Cedex.
2) Groupe Matière Condensée et Matériaux, U.R.A. C.N.R.S. n° 804, Université de Rennes I, Avenue du Général Leclerc, F 35042 RENNES Cedex.

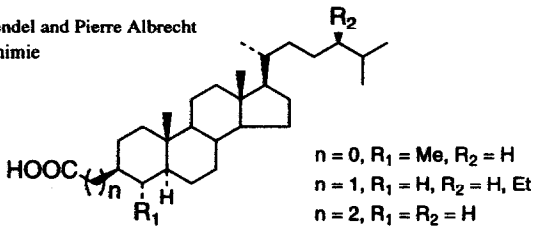
At -20°C, the title reaction leads to 1,2,3-oxazaphospholines. Thermal behaviour of these adducts is studied (experimental and theoretical approach).

CHARACTERISATION OF NOVEL 3-CARBOXYALKYL-STERANES OCCURRING IN GEOLOGICAL SAMPLES

Tetrahedron, **1994**, *50*, 12633

Philippe Schaeffer, Fabienne Fache-Dany, Sylvie Trifilieff, Jean M. Trendel and Pierre Albrecht
Laboratoire de Géochimie Organique, URA 31 du CNRS, Faculté de Chimie
Université Louis Pasteur, 1 rue Blaise Pascal, 67000 Strasbourg, France

Three novel series of 3-carboxyalkyl-steranes have been identified in sediments by synthesis. They may derive from yet unknown microbial precursors.

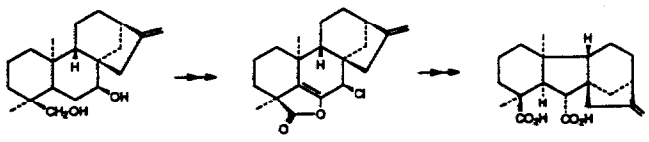


THE TRANSFORMATION OF EPICANDICANDIOL INTO A GIBBERELLIN A_{12} ISOMER

Tetrahedron, **1994**, *50*, 12643

Braulio M. Fraga*, Melchor G. Hernández, Jacinto D. Arraez, and Javier G. Luis
Instituto de Productos Naturales y Agrobiología, CSIC, and Instituto Universitario de Bio-Orgánica, Univ. La Laguna, Avda. Astrofísico F. Sanchez 2, 38203-La Laguna, Tenerife, Spain

A gibberellin A_{12} isomer has been obtained by Favorskii rearrangement of a chloro-enol-lactone, prepared from epicandicandiol.



Tetrahedron, **1994**, *50*, 12697

2-ETHOXYCARBONYLOXY-3-ETHYNYLINDOLES FROM INDOL-2(3H)-ONES

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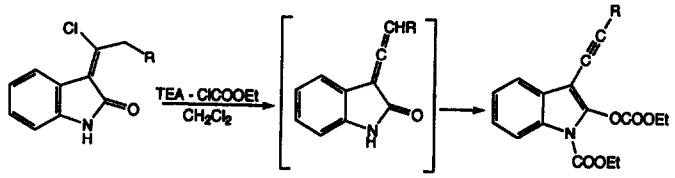
[a]Istituto di Chimica Organica, Facolta' di Farmacia, Universita' degli Studi di Milano, via Venezian 21 - 20133 Milano - Italy [b] CNR Centro Studio delle Relazioni tra Struttura e Reattivita' Chimica, via Golgi 19 - 20133 Milano - Italy

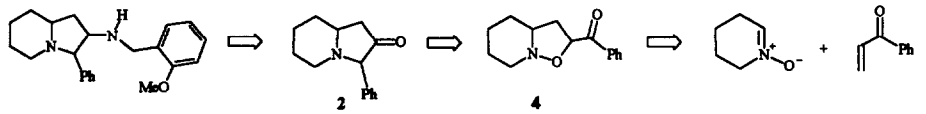


Tetrahedron, **1994**, *50*, 12713

SYNTHESES OF 3-PHENYL SUBSTITUTED INDOLIZIDIN-2-ONES AND A PYRROLIZIDIN-2-ONE ON THE ROUTE TO CONSTRAINED POTENTIAL NK_1 RECEPTOR ANTAGONIST

Franca M. Cordero,[a] Alberto Brandi,[a]* Simone Cristilli,[a] Francesco De Sarlo,[a] Giovanni Viti[b]
a) Dipartimento di Chimica Organica "U. Schiff" and Centro CNR dei Composti Eterociclici, Università di Firenze, Via G. Capponi 9, I-50121 Firenze (Italy);
b) Menarini Industrie Farmaceutiche Riunite S.r.L, Via Sette Santi 3, I-50131 Firenze (Italy)

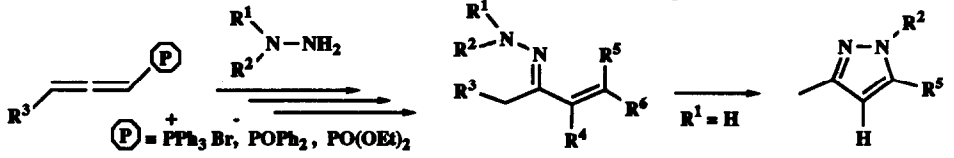
New indolizidine NK_1 receptor antagonists have been synthesized starting from 3-phenyl-indolizidin-2-one (**2**), obtained from a benzoylisoxazolidine **4** by reductive ring cleavage followed by intramolecular condensation.



Tetrahedron, **1994**, *50*, 12727

AN EFFECTIVE STRATEGY FOR THE PREPARATION OF α,β-UNSATURATED HYDRAZONES AND PYRAZOLE DERIVATIVES. SYNTHETIC APPLICATIONS OF β-FUNCTIONALIZED PHOSPHORUS COMPOUNDS.

Francisco Palacios*, Domitila Aparicio, Jesús M. de los Santos.
Departamento de Química Orgánica. Facultad de Farmacia. Universidad del País Vasco. Apartado 450. 01006 Vitoria. SPAIN.

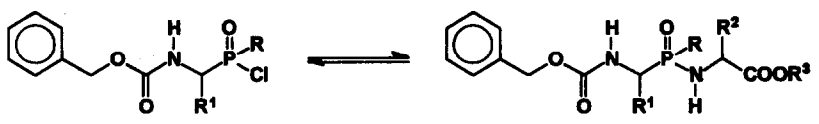


Tetrahedron, **1994**, *50*, 12743

Preparation of Phosphono Peptides Containing Phosphonamidate Bond

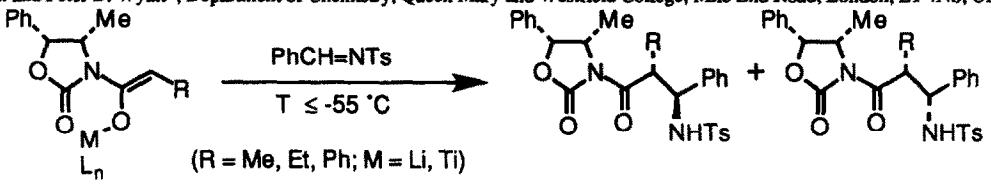
Artur Mucha, Paweł Kafarski
Institute of Organic Chemistry, Biochemistry and Biotechnology, Technical University of Wrocław, Poland
Francoise Plenat, Henri-Jean Cristau
Laboratoire de Chimie Organique, Ecole Nationale Superieure de Chimie, Montpellier, France

Factors influencing the formation of phosphonamidate bond during phosphono peptide synthesis were studied.



ADDITION TO ACTIVATED IMINES OF ENOLATES FROM CHIRAL *N*-ACYLOXAZOLIDINONES Isaac Abrahams, Majid Motevalli, Andrew J. Robinson and Peter B. Wyatt*, Department of Chemistry, Queen Mary and Westfield College, Mile End Road, London, E1 4NS, UK.

Tetrahedron, **1994**, *50*, 12755



Typically only two out of the four possible addition products were formed, implying that reaction is through chelated (Z)-enolates.

ELECTROCHEMICAL OXIDATION OF DIHYDROINDOLOQUINAZOLINES AND DIHYDROQUINAZOLINES

Tetrahedron, **1994**, *50*, 12773

James Y. Becker* and Elias Shakkour, Department of Chemistry, Ben-Gurion University of the Negev, Beer Sheva 84120, Israel

Abstract: Cyclic voltammetry of five tetracyclic dihydroindoloquinazolines (**1**) and five bicyclic dihydroquinazolines (**2**) have been studied in dichloromethane. Anodic oxidation of type **1** derivatives yields mostly benzophenone and quinazolinone **4** (the X-ray crystal structure of **4c** has been determined).