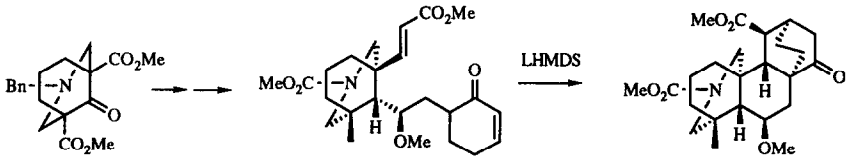
GRAPHICAL ABSTRACTS

Tetrahedron, **1992**, *48*, 5089

Enantioselective Synthesis of 6-Oxygenated Atisine Derivative *via* Intramolecular Double Michael Reaction. Masataka Ihara, Akihito Hirabayashi, Nobuaki Taniguchi, and Keiichiro Fukumoto*, Pharmaceutical Institute, Tohoku University, Aobayama, Sendai 980, Japan

A 6-oxygenated atisine derivative was stereoselectively synthesized *via* the intramolecular double Michael reaction.



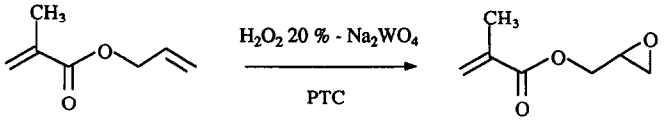
Tetrahedron, **1992**, *48*, 5099

SYNTHESIS OF EPOXY (METH)ACRYLIC ESTERS BY SELECTIVE EPOXIDATION OF UNSATURATED (METH)ACRYLIC ESTERS USING THE SYSTEM H_2O_2 - Na_2WO_4 UNDER PHASE TRANSFER CATALYSIS

Y. Fort, A. Olszewski-Ortar, and P. Caubere*

Laboratoire de Chimie Organique I, URA CNRS 457, Université de Nancy I, B.P. 239, 54506 Vandœuvre-les-Nancy cédex, France

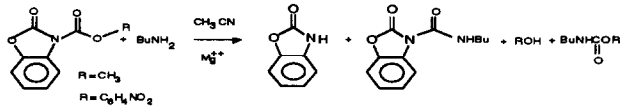
Selective epoxidation of unsaturated (meth)acrylic esters using the system H_2O_2 (20%) - Na_2WO_4 under PTC are obtained with high selectivity and good yields.



Tetrahedron, **1992**, *48*, 5111

AMINOLYSE DE CARBAMATES CYCLIQUES ANALOGUES DE LA CARBOXYBIOTINE ; CATALYSE METALLIQUE ET MODELISATION DE TRANSFERT DE CARBOXYLE.

Jean-Marie BOTELLA*, Alain KLAEBE*, Jacques PERIE* et Eric MONNIER**.* Groupe de Chimie Organique Biologique rattaché aux Laboratoires I.R.M.C.P. (URA CNRS 470) et S.S.R.M.P. (URA CNRS 454), Université P. SABATIER, 31062 TOULOUSE CEDEX, FRANCE.** Laboratoire de Chimie Générale, (URA CNRS 1103), Conservatoire National des Arts et Métiers, 75141 PARIS CEDEX 03, FRANCE.



The study of aminolysis of carbamic esters in CH_3CN shows an electrostatic catalysis with induced regioselectivity by the metal ion, the rate determining step being the collapse of the tetrahedral intermediate.

Tetrahedron, **1992**, *48*, 5123

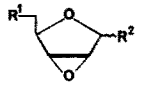
SYNTHESE ET EQUILIBRE THERMODYNAMIQUE DES HUIT 5-O-BENZYL-2 (OU 3)-DIMETHYLAMINO-3 (OU 2)-O-MESYL -α(OU β)-D-XYLO (OU ARABINO)-FURANOSIDES DE METHYLE

M-B. Giudicelli, M-A. Thomé, D. Picq et D. Anker*, UCB - LYON I, Lab. de Chimie Organique 3, associé au CNRS, 43 Boulevard du 11 Novembre 1918, 69622 VILLEURBANNE Cedex (France)

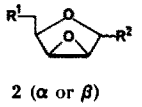
Ring opening of **1** and **2** by dimethylamine has been studied. Four thermodynamic equilibria involving the eight corresponding vic-dimethylaminomesylates have been observed : an aziridinium ion is proposed as intermediate.

R^1=OBzl

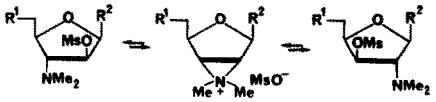
R^2=OMe



1 (α or β)

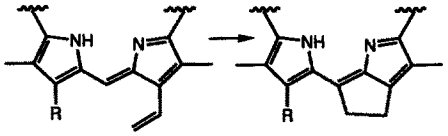


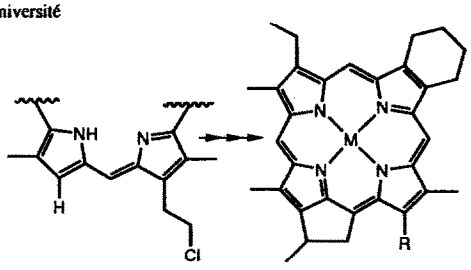
2 (α or β)



Tetrahedron, **1992**, *48*, 5135

Total synthesis of cyclopentenoporphyrins of sedimentary origin: deoxophylloerythroetioporphyrin, chlorophyll *c* fossils and related compounds. C. Bauder, R. Ocampo and H.J. Callot, Institut de Chimie, Université Louis Pasteur, 1 rue Blaise Pascal, 67000 Strasbourg, France.

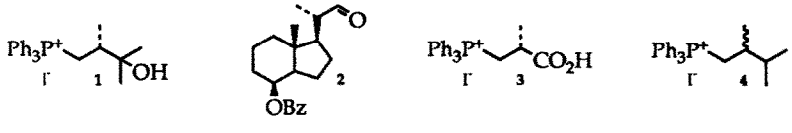




Tetrahedron, **1992**, *48*, 5151

Phosphorus Ylide Chemistry Investigated for Dihydrotachysterol$_2$ Metabolite Side-Chain Synthesis The Wittig Approach.

Jaap C. Hanekamp*°¥, Rob Boer Rookhuizen°, Hendrik J. T. Bos*, Lambert Brandsma*. *Laboratory for Preparative Organic Chemistry, The Debye Institute, Utrecht University, Padualaan 8, 3584CH, Utrecht, The Netherlands °Department of Internal Medicine, University Hospital of Utrecht, Heidelberglaan 100, 3584CX, Utrecht, The Netherlands. Phosphonium salt **1** was synthesised stereoselectively in 4 steps. A total *E*-stereoselective condensation of the ylide from **1** with benzaldehyde and aldehyde **2** was accomplished. Other phosphonium salts (**3** and **4**) were prepared and characterised, and are intended for DHT$_2$ derivative synthesis.



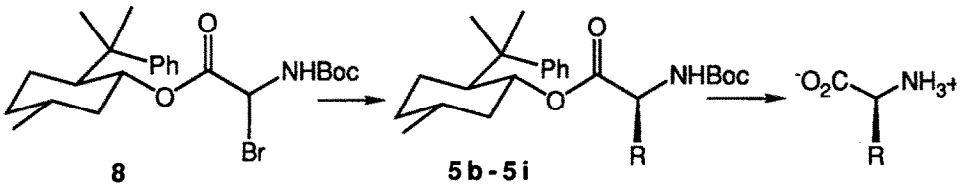
Tetrahedron, **1992**, *48*, 5163

THE ASYMMETRIC SYNTHESIS OF α-AMINO ACIDS *VIA* THE ADDITION OF GRIGNARD REAGENTS TO IMINE DERIVATIVES

David P.G. Hamon*, Ralph A. Massy-Westropp, and Pasquale Razzino.

Department of Organic Chemistry, University of Adelaide, GPO Box 498, Adelaide, SA, 5001, Australia

Treatment of the bromide **8** with a variety of Grignard reagents at low temperature gave, with mainly high d.e., the alkylglycinates **5b - 5i.** Conditions for the hydrolysis of these derivatives to the amino acids without racemisation are described.



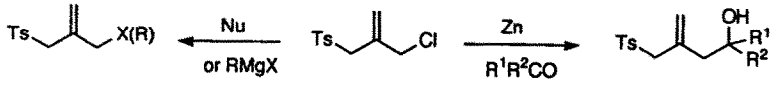
Tetrahedron, **1992**, *48*, 5179

2-(CHLOROMETHYL)-3-TOSYLPROPENE; AN USEFUL REAGENT FOR THE SYNTHESIS OF ALLYL SULFONES

Carmen Nájera and José M. Sansano

Departamento de Química Orgánica, Facultad de Ciencias, Universidad, 03690 Alicante, Spain

The easily prepared 2-(chloromethyl)-3-tosylpropene (**5**) reacts with heteronucleophiles, Grignard derivatives, or carbonyl compounds (in the presence of zinc) to give functionalized allyl sulfones.

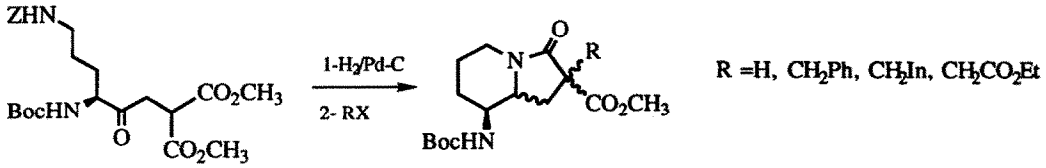


Tetrahedron, **1992**, *48*, 5191

SYNTHESIS OF 2-SUBSTITUTED 8-AMINO-3-OXOINDOLIZIDINE-2-CARBOXYLIC ACID DERIVATIVES AS PEPTIDE CONFORMATION MIMETICS

R. González-Muñiz*, M.J. Domínguez and M.T. García-López
Instituto de Química Médica, Juan de la Cierva 3, 28006 Madrid, Spain.

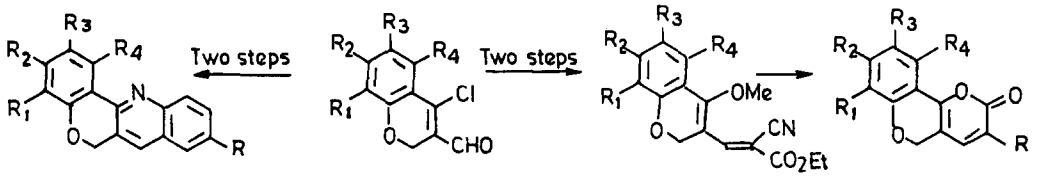
Bridged bicyclic lactams bearing amino acid side chains have been synthesized with high and moderate stereocontrol at C_{8a} and C_2, respectively, as building blocks to be introduced into higher peptides



Tetrahedron, **1992**, *48*, 5199

SYNTHESIS OF POLYCYCLIC OXA-COUMARINS, POTENTIAL ANTITUMOUR AGENTS AND A SHORT AND CONVENIENT SYNTHESIS OF NAPHTHOPYRANOQUINOLINES FROM NAPHTHOPYRAN CHLORO-ALDEHYDES.

Md. Izhar Sami, Gandhi K. Kar and Jayanta K. Ray*, Department of Chemistry, Indian Institute of Technology, Kharagpur 721 302, India.



Tetrahedron, **1992**, *48*, 5209

CONFORMATIONAL ASPECTS OF SOME ASYMMETRIC DIELS-ALDER REACTIONS. A MOLECULAR MECHANICS+POLARIZATION STUDY.

F. Torrens#, M. Ruiz-López#, C. Cativiela, J. I. García, J. A. Mayoral.
#Lab. Chim. Théorique. URA au C.N.R.S. 510. Univ. de Nancy I. B.P. 239. 54510 Vandœuvre-lès-Nancy (France)
Dpto Qª Orgánica. I.C.M.A. Universidad de Zaragoza-C.S.I.C. 50009 Zaragoza (España)

The MM2 force field, improved by the inclusion of interacting induced dipole energies is used to calculate the conformational preferences of three chiral dienophiles The results obtained agree with the models previously proposed to account for the asymmetric induction obtained in the reaction of these dienophiles with cyclopentadiene.