

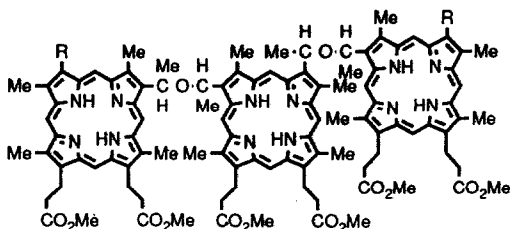
GRAPHICAL ABSTRACTS

Tetrahedron, 1991, 47, 9571

REGIOSELECTIVE SYNTHESSES OF ETHER-LINKED PORPHYRIN DIMERS AND TRIMERS RELATED TO PHOTOFRIN-II®

Ravindra K. Pandey, Fuu-Yau Shiau,
Thomas J. Dougherty and Kevin M. Smith,*
Department of Chemistry, University of
California, Davis, CA 95616 and Department
of Radiation Medicine, Roswell Park Cancer
Institute, Buffalo, NY 14263.

Regiochemically pure ether-linked porphyrin dimers and trimers (e.g. A) are synthesized from porphyrin monomers.



A R = COMe, CH(OH)Me, CH=CH₂

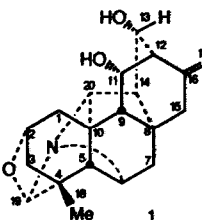
Tetrahedron, 1991, 47, 9585

DELATISINE, A NOVEL DITERPENOID ALKALOID FROM *DELPHINIUM ELATUM* L.

Samir A. Ross^a, Balawant S. Joshi^a, Haridutt K. Desai^a, S. William Pelletier^{a*}, M. Gary Newton^b, Xiolin Zhang^c and John K. Snyder^c

^aInstitute for Natural Products Research and School of Chemical Sciences, The University of Georgia, Athens, GA 30602; ^bX-Ray Diffraction Laboratory, School of Chemical Sciences, The University of Georgia 30602; ^cDepartment of Chemistry, Boston University, Boston, MA 02215

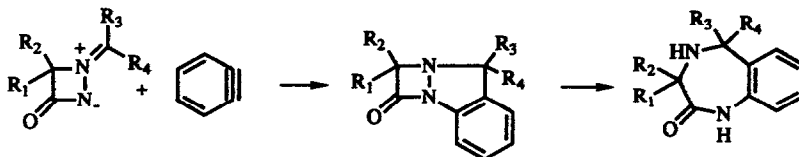
The structure of delatisine (1) isolated from *Delphinium elatum* L. was established by ¹H COSY, long-range COSY, HETCOR, 2D nOe, fixed evolution HETCOR and selective INEPT nmr studies. The structure was confirmed by an X-ray crystal structure analysis.



"BICYCLOBENZODIAZEPINONES" FROM 3-OXO-1,2-DIAZETIDINIUM HYDROXIDE, INNER SALTS

Edward C. Taylor* and Denis M. Sobieray
Department of Chemistry, Princeton University, Princeton, NJ 08544

The preparation of tricyclic adducts from 1,3-dipolar cycloaddition of benzyne to 3-oxo-1,2-diazetidinium and 3-oxopyrazolidinium hydroxide, inner salts, and their conversion, *inter alia*, to benzodiazepinones and benzodiazocinones, are described.

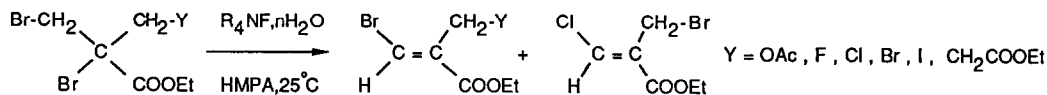


Tetrahedron, 1991, 47, 9599

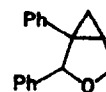
ADDITION OF BROMINE TO β' -(FUNCTIONAL ALKYL) **α, β -UNSATURATED ESTERS: STEREOSELECTIVE SYNTHESIS OF β -HALODERIVATIVES .**

Taïcir BEN AYED, Hassen AMRI and Mohamed Moncef EL GAIED*

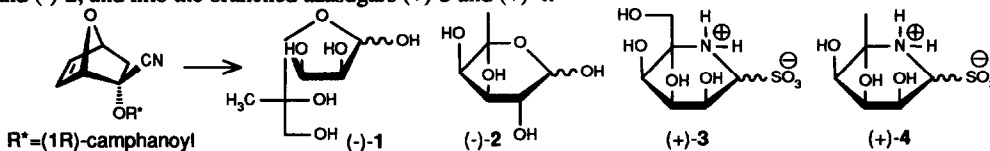
Laboratoire de Chimie Organique, Faculté des Sciences, Campus Universitaire 1060 TUNIS (TUNISIE)

A new convenient stereoselective synthesis of β -brominated β' -(functional alkyl) α, β -unsaturated esters.

REGIO- ET STEREO-REACTIVITE D'UNE LACTONE DISSYMETRIQUE. DETERMINATION DE STRUCTURE PAR EFFETS NUCLEAIRES OVER-HAUSER ET MODELISATION MOLECULAIRE.

*C. Berrier^a, B. Bonnaud, J.F. Patoiseau^b, et D. Bigg^b.^aLaboratoire de Chimie XII - URA CNRS - Faculté des Sciences
40, Avenue du Recteur Pineau, 86022 POITIERS Cedex France.^bCentre de Recherche Pierre Fabre Médicament, 17, Avenue Jean Moulin
81106 CASTRES Cedex France.Reactivity of lactone **1**, precursor of **VIIa** and **VIIb** has been studied. Conformations and structures were assigned by ¹H NMR NOE DIFF experiments and molecular modelling.**1****VIIa cis**
VIIb trans**TOTAL, ASYMMETRIC SYNTHESIS OF HEXOSES AND AZASUGARS BRANCHED AT C(5).¹**

Jürgen Wagner and Pierre Vogel*, Section de chimie de l'Université de Lausanne, Switzerland

The "naked sugar" (-)-**5** has been converted with high stereoselectivity into the branched hexoses (-)-**1** and (-)-**2**, and into the branched azasugars (+)-**3** and (+)-**4**.

**THE SYNTHESIS OF BRIDGED-RING CARBO- AND HETERO- CYCLES VIA
PALLADIUM CATALYSED REGIOSPECIFIC CYCLISATION REACTIONS.**

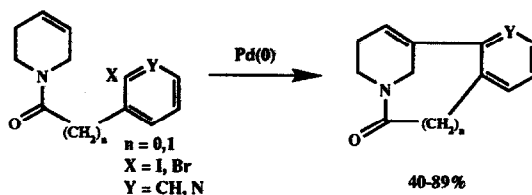
Ronald Grigg^{a*}, Vijayaratnam Santhakumar^a, Visuvanathar Sridharan^a, Paul Stevenson^b,

Andrew Teasdale^a, Mark Thornton -Pett^a, and Tanachat Worakun^b.

a. School of Chemistry, Leeds University, Leeds LS2 9JT.

b. Chemistry Department, Queen's University, Belfast BT9 5AG.

Bridged-ring carbo- and heterocycles are formed in excellent yield by Pd(0) catalysed 5-, 6-, and 7-exo-trig and 7-endo-trig cyclisation of aryl halides onto proximate alkenes.



**Directed, Iterative, Stereoselective Synthesis of Oligo-
saccharides by Use of Suitably 2-O-Substituted 2-Pyridyl
1-Thioglycopyranosides on Activation by Methyl Iodide**

Hari Babu Mereyala* and G Venugopal Reddy

Indian Institute of Chemical Technology, Hyderabad 500 007, India

The title synthesis is described by the proven methyl iodide activation procedure to obtain the α -linked oligosaccharides.

