

## GRAPHICAL ABSTRACTS

### TRANSMISSION OF ELECTRONIC EFFECTS THROUGH 2-[DONOR]-1-[ACCEPTOR]CYCLOPROPANES. PART III. CONFORMATIONAL STUDIES OF 2-(p-X-ARYL)-1-CYCLOPROPYL ALDEHYDES WITH LANTHANIDE SHIFT REAGENTS.

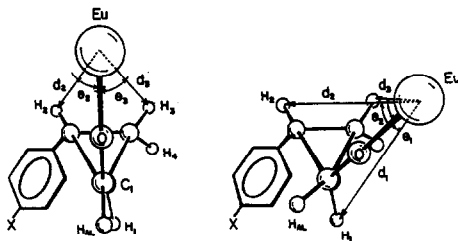
*Tetrahedron*, 1993, 49, 7427

Miguel E. Alonso<sup>\*,†</sup>, José Daniel Gómez<sup>‡</sup>, and Sarah V. Pecker<sup>‡</sup>

<sup>\*</sup>Departamento de Química, Facultad de Ciencias, Universidad de Los Andes, Mérida 5101, VENEZUELA. and

<sup>‡</sup>Centro de Química, Instituto Venezolano de Investigaciones Científicas, IVIC, Altos de Pipe, Caracas, VENEZUELA.

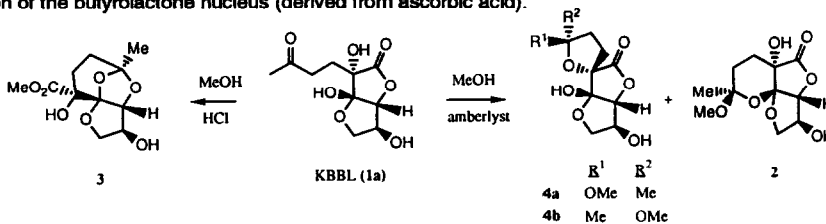
Conformational preferences of cyclopropyl aldehydes observed with LIS studies are interpreted as indicators of carbonyl-cyclopropane conjugation as a function of individual C-C bond electron density in the ring, and not as substituent mesomeric effects



### ON THE METHANOLYSIS OF KBBL, AN IMMUNOSTIMULANT DERIVED FROM ASCORBIC ACID, Erin Campbell, Bradley J. Newhouse, Jon Bordner,<sup>†</sup> and Edward F. Kleinman<sup>\*</sup>, Central Research Division, Pfizer Inc, Department of Medicinal Chemistry, Groton, CT 06340

*Tetrahedron*, 1993, 49, 7437

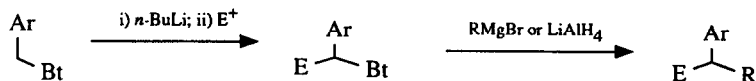
**Abstract:** Methanolysis of the immunostimulant KBBL (1a) was studied to provide new internal ketal derivatives for potential elaboration of the butyrolactone nucleus (derived from ascorbic acid).



### NOVEL ROUTES TO 4-SUBSTITUTED N,N-DIALKYLANILINES, N-ALKYLANILINES AND ANILINES

*Tetrahedron*, 1993, 49, 7445

Alan R. Katritzky<sup>\*</sup>, Hengyuan Lang and Xiangfu Lan  
 Department of Chemistry and Center for Heterocyclic Compounds,  
 University of Florida, Gainesville, FL 32611-2046

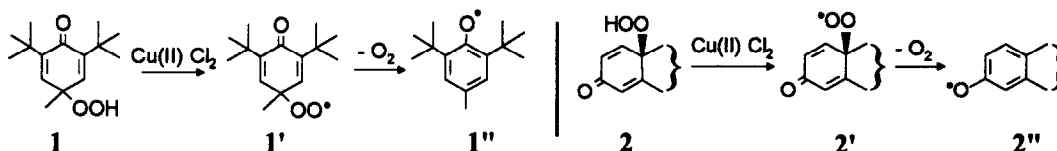


Ar = 4-N,N-Dialkylaminophenyl, 4-N-Alkylaminophenyl and 4-Aminophenyl;  
 E = H, Me, PhCH<sub>2</sub>, n-Bu, (CH<sub>2</sub>)<sub>5</sub>C(OH), PhCH(OH); R = Ph, n-Bu, H.

### Chemical Evidence for Peroxy Radicals Intermediacy in Copper(II) Reaction with Hydroperoxides

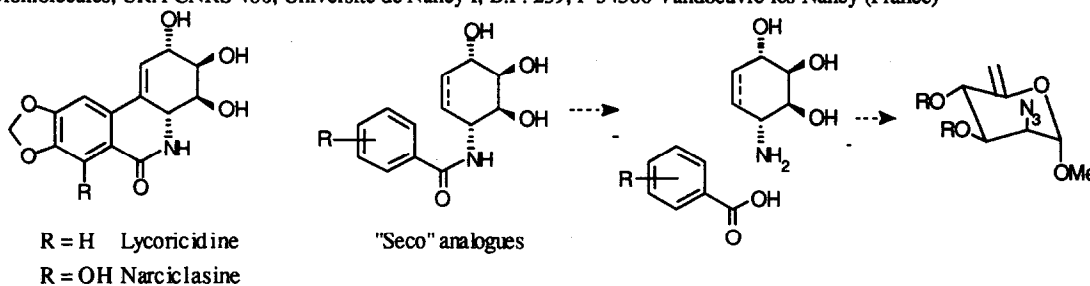
Michel Maumy and Patrice Capdevielle, Laboratoire de Recherches Organiques de l'ESPCI, associé au CNRS, 10 rue Vauquelin, 75231 Paris Cedex 05, France.

Cu(II)Cl<sub>2</sub> oxidation of tertiary hydroperoxides **1**, **2** into peroxy radicals **1'**, **2'** leads to phenoxy radicals **1''** and **2''** through release of dioxygen :



### Enantiospecific Synthesis and Biological Evaluation of Seco Analogues of Antitumor Amarylhidaceae Alkaloids

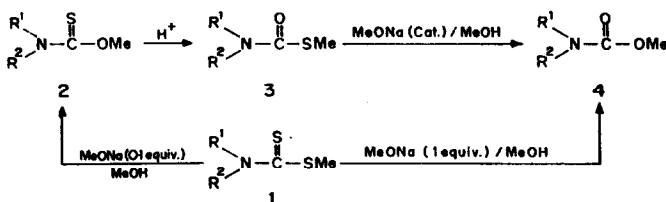
F. Chrétien, S. Ibn Ahmed, A. Mason, Y. Chapleur Laboratoire de Méthodologie et Synthèse Enantiospécifique de Biomolécules, URA CNRS 486, Université de Nancy I, B.P. 239, F-54506 Vandoeuvre-les-Nancy (France)



### CONVERSION OF THIOCARBAMATES TO CARBAMATES

Sagun K. Tandel, Srinivasachari Rajappa\* and (in part) Sunil V. Pansare  
National Chemical Laboratory, Pune 411008, India.

Thionocarbamates (**2**) can be isomerised to thiocarbamates (**3**) by treatment with conc. H<sub>2</sub>SO<sub>4</sub>. A direct transformation of dithiocarbamates (**1**) to carbamates (**4**) is discussed.



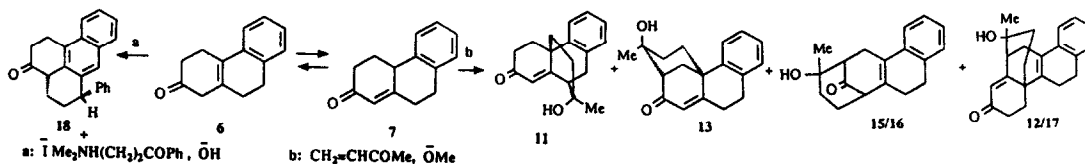
**REACTIONS OF METHYL VINYL AND PHENYL VINYL KETONES WITH A TRICYCLIC KETONE DERIVED FROM 2-TETRALONE. CHARACTERISATION OF CRYSTALLINE PRODUCTS BY X-RAY DIFFRACTION**

C.J. Cardin<sup>a</sup>, M.S. Carson<sup>a</sup>, W. Cocker<sup>a\*</sup>, P.V.R. Shannon<sup>b</sup>, and D.J. Willcock<sup>a</sup>

<sup>a</sup>University Chemical Laboratory, Trinity College, Dublin 2 Ireland.

<sup>b</sup>School of Chemistry and Applied Chemistry, University of Wales, College of Cardiff. P.O.Box 912 Cardiff CF1 3TB UK.

The base-catalysed title reactions gave the cyclic ketols and derived compounds shown below whose structures were identified by X-ray diffraction.

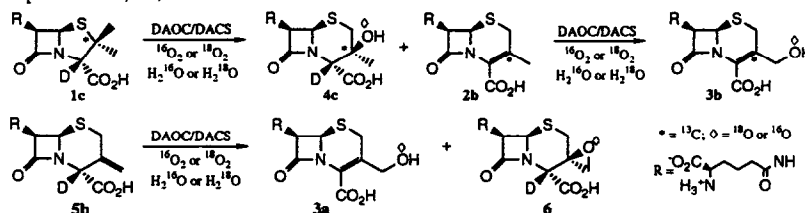


**INCORPORATION OF  $^{18}\text{O}$ -LABELLED WATER INTO OXYGENATED PRODUCTS PRODUCED BY THE ENZYME DEACETOXY/DEACETYL-CEPHALOSPORIN C SYNTHASE**

Jack E. Baldwin, Robert M. Adlington, Nicholas P. Crouch and Inês A. C. Pereira

The Dyson Perrins Laboratory and the Oxford Centre for Molecular Sciences, University of Oxford, South Parks Road, Oxford OX1 3QY.

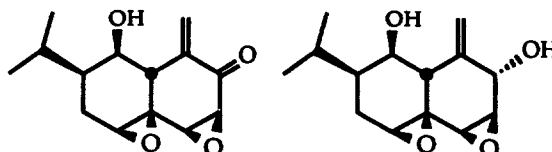
Incubations of [2- $^{13}\text{C}$ , 3- $^2\text{H}$ ]penicillin N **1c** and [4- $^2\text{H}$ ]exomethylene cephalosporin C **5b** with DAOC/DACS under  $^{18}\text{O}_2$  or in  $\text{H}_2^{18}\text{O}$  revealed there was incorporation of  $^{18}\text{O}$ -label from both sources into the oxygenated enzymic products **4c**, **3b**, **3a** and **6**.



**THE STRUCTURE DETERMINATION OF PANELLON AND PANELLOL, TWO 14-NOREUDESMANES ISOLATED FROM RESUPINATUS LEIGHTONII**

A. Sundin, H. Anke, K.-E. Bergquist, A. Mayer, W. S. Sheldrick, M. Stadler, and O. Sterner, Universities of Lund (Sweden), Kaiserslautern and Bochum (Germany).

The structures of two fungal norsesquiterpenes were elucidated by a combination of X-ray analysis, NMR spectroscopy and molecular mechanics calculations.



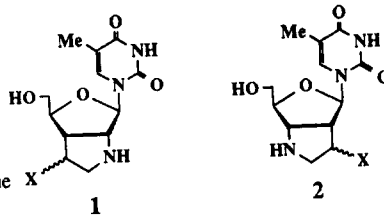
*Tetrahedron*, 1993, 49, 7525

**SYNTHESIS OF 2',3'-*cis*-FUSED PYRROLIDINO- $\beta$ -D-NUCLEOSIDES AND THEIR CONFORMATIONAL ANALYSIS BY 500 MHZ  $^1\text{H-NMR}$**

Zhen Xi, Corine Glemarec & Jyoti Chattopadhyaya\*

*Department of Bioorganic Chemistry, Box 581, Biomedical Center, University of Uppsala, S-751 23 Uppsala, Sweden*

The "off-template" stereoselectivity in the intramolecular free radical cyclization of 3-aza-5-hexenyl endocyclic radical has been demonstrated for the first time through the synthesis of 2',3'-*cis*-fused pyrrolidino- $\beta$ -D-nucleosides 1 and 2.

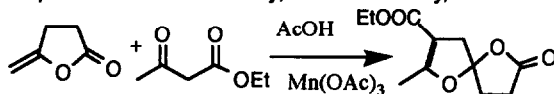


*Tetrahedron*, 1993, 49, 7547

**SYNTHESIS OF OXASPIROLACTONES BY MANGANIC ACETATE PROMOTED ADDITIONS TO EXOCYCLIC ENOL LACTONES.**

John M. Mellor and Shahid Mohammed

Department of Chemistry, The University, Southampton SO9 5NH



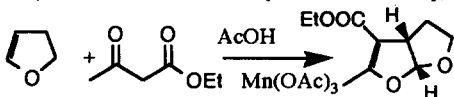
13 Examples given

*Tetrahedron*, 1993, 49, 7557

**SYNTHESIS OF FUSED ACETAL DERIVATIVES BY MANGANIC ACETATE PROMOTED ADDITIONS TO ENDOCYCLIC ENOL ETHERS.**

John M. Mellor and Shahid Mohammed

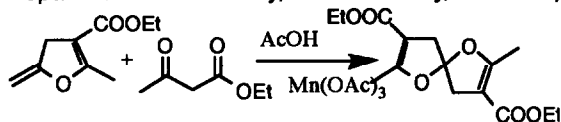
Department of Chemistry, The University, Southampton SO9 5NH



16 Examples given

**SYNTHESIS OF SPIROCYCLIC ACETALS  
BY MANGANIC ACETATE PROMOTED  
ADDITIONS TO EXOCYCLIC ENOL ETHERS.**

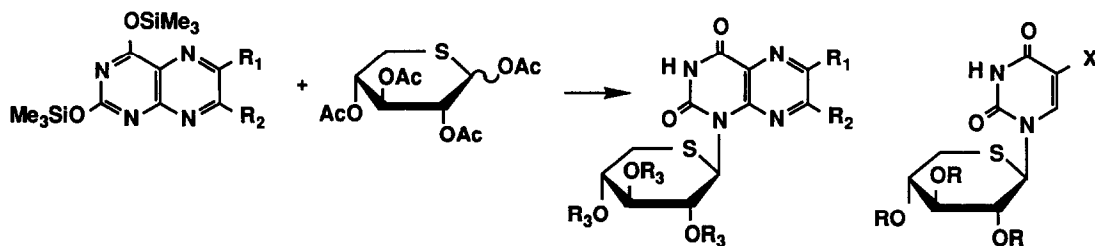
John M. Mellor and Shahid Mohammed  
Department of Chemistry, The University, Southampton SO9 5NH



14 Examples given

**SYNTHESIS OF SOME NOVEL 1-(5-THIO-β-D-XYLOPYRANOSYL)-  
LUMAZINE AND -PYRIMIDINE NUCLEOSIDES**

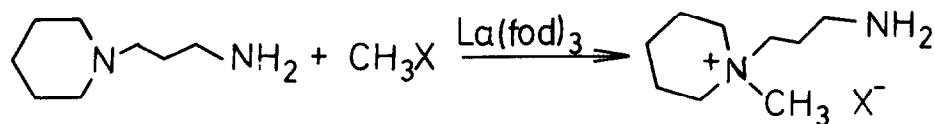
N.A.Al-Masoudi<sup>a</sup> and W.Pfleiderer<sup>b</sup>; <sup>a</sup>Basrah University (Iraq) and <sup>b</sup>Universität Konstanz (Germany)



**A NEW APPROACH TO THE SELECTIVE ALKYLATION OF  
DIFUNCTIONAL COMPOUNDS**

I.V.Komarov<sup>\*</sup>, V.E.Denisenko and M.Yu.Kornilov  
Department of Organic Chemistry, T.Shevchenko Kiev University, Kiev,  
Vladimirskaya street 60, 252017, Ukraine

Selective alkylation of the less nucleophilic center is possible in the presence of some lanthanide tris-β-diketonates without preliminary protection of the more nucleophilic group.



**PREPARATION AND SYNTHETIC APPLICATIONS OF IMINO-PHOSPHORANES DERIVED FROM *o*-SUBSTITUTED ARYLAZIDES: PREPARATION OF PYRAZOLO[1,2-*b*]INDAZOLE, 4*H*-3,1-BENZOXAZINE AND QUINOLINE DERIVATIVES. CRYSTAL STRUCTURE OF 2-[2-(4-METHOXYBENZOYL-AMINO)PHENYL]-4-METHYLQUINOLINE.**

Pedro Molina\*, Carlota Conesa, Asunción Alías, Antonio Arques and María D. Velasco. Departamento de Química Orgánica, Facultad de Química, Universidad de Murcia, Campus de Espinardo, E-30071 Murcia, Spain.

Antonio L. Llamas-Saiz and Concepción Foces-Foces\*. U.E.I. de Cristalografía, Instituto de Química-Física "Rocasolano", CSIC, Serrano 119, E-28006 Madrid, Spain.

The Staudinger reaction between *o*-substituted arylazides and TPP leads to either iminophosphoranes derived from 2*H*-2-aminoindazole or aryliminophosphoranes. Aza Wittig reaction of the former compounds affords fused indazoles whereas the latter provides 4*H*-3,1-benzoxazines.

