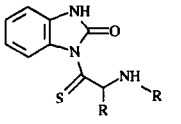
THIOACYLATING AGENTS. USE OF THIOBENZIMIDAZOLONE DERIVATIVES FOR THE PREPARATION OF THIOTUFTSIN ANALOGS.

Tetrahedron, **1993**, *49*, 10489

Boulos Zacharie *[a] Gilles Sauvé[b] and Christopher Penney[a]

[a]Department of Medicinal Chemistry, BioChem Therapeutic Inc 531 des Prairies Blvd , Laval Quebec H7V 1B7
[b]Institut Armand-Frappier UQAM 531 des Prairies Blvd , Laval Quebec, H7V 1B7

The synthesis, properties and characterization of new thioacylating reagents of formula 1 are described These compounds are able to incorporate thioamide linkages into a growing peptide at a specific site in the peptide sequence The potential utility of this method has been illustrated by the facile synthesis of the monothionated analogs of tuftsin



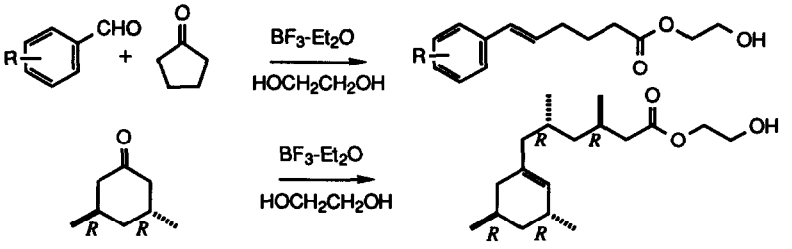
1, R =Boc Z
R=amino acid side chains

H-Thr-Lys-Pro-Arg-OH
Tuftsin

NONEL RING CLEAVAGE BASED ON INTERMOLECULAR ALDOL CONDENSATION.

Tetrahedron, **1993**, *49*, 10501

Shinji Nagumo, Aki Matsukuma, Hiroshi Suemune, and Kiyoshi Sakai*
Faculty of Pharmaceutical Sciences, Kyushu University, Fukuoka 812, Japan

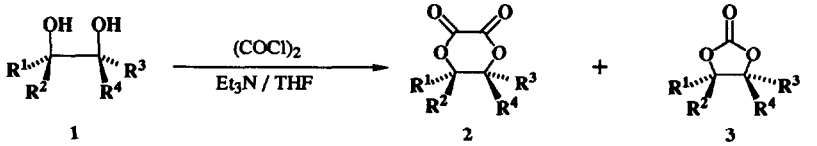


CYCLOCONDENSATION OF OXALYL CHLORIDE WITH 1,2-GLYCOLS

Tetrahedron, **1993**, *49*, 10511

Takehiko Iida and Taisuke Itaya*
Faculty of Pharmaceutical Sciences, Kanazawa University, Takara-machi, Kanazawa 920, Japan

The mechanism has been proposed for the formation of the cyclic carbonate esters 3 in the reactions of oxalyl chloride with acyclic 1,2-glycols 1



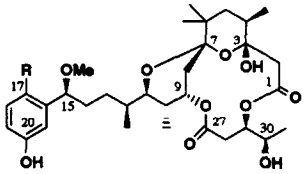
1 2 3

Tetrahedron, **1993**, *49*, 10531

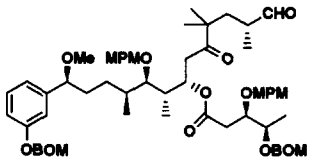
A Formal Synthesis of Aplysiatoxin: Enantioselective Synthesis of Kishi's Aldehyde

Hiroaki Okamura,† Satoru Kuroda,† Satoru Ikegami,† Kenji Tomita,†
Yu-ichi Sugimoto, Shin-ich Sakaguchi,† Yoshio Ito, Tsutomu Katsuki*, and Masaru Yamaguchi

Department of Chemistry, Faculty of Science, Kyushu University 33, Hakozaki, Higashi-ku, Fukuoka 812, Japan



1a R = Br Aplysiatoxin
1b R = H Debromoaplysiatoxin



2 Kishi's aldehyde

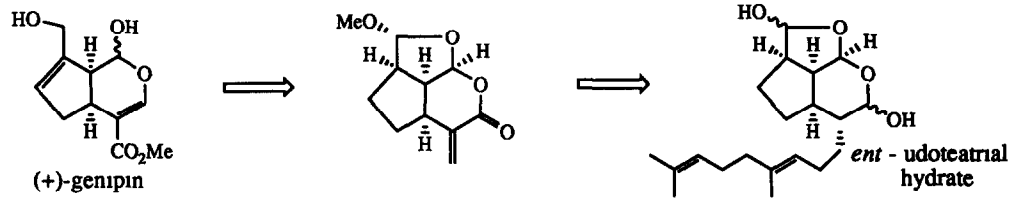
Synthesis of fragments of aplysiatoxin (**1a**) and their convergent assembly to the key intermediate, Kishi's aldehyde (**2**), for the synthesis of **1a** are described

Tetrahedron, **1993**, *49*, 10555

ABSOLUTE CONFIGURATION OF NOVEL MARINE DITERPENOID UDOTEATRIAL HYDRATE. SYNTHESIS AND CYTOTOXICITIES OF *ENT*-UDOTEATRIAL HYDRATE AND ITS ANALOGUES

Yu-ting Ge, Shoichi Kondo, Shigeo Katsumura, Kazuhiko Nakatani, and Sachihiko Isoe*
Institute of Organic Chemistry, Faculty of Science, Osaka City University, Sugimoto, Sumiyoshi, Osaka 558, Japan

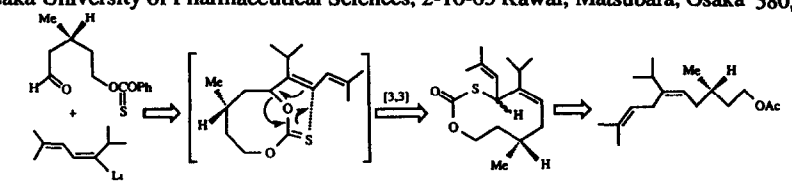
The antipode of udoteatrial hydrate was synthesized from iridoid (+)-genipin and the absolute configuration of udoteatrial hydrate was determined as (*2aS, 4aS, 5S, 7bR*) The cytotoxicities of analogues of *ent*-udoteatrial hydrate were also reported



Tetrahedron, **1993**, *49*, 10577

[3,3]Sigmatropic Ring Expansion of Cyclic Thionocarbonates. 12. Synthesis of (-)-Yellow Scale Pheromone

Shinya Harusawa, Shigetaka Takemura, Ryuji Yoneda and Takushi Kurihara
Osaka University of Pharmaceutical Sciences, 2-10-65 Kawai, Matsubara, Osaka 580, Japan

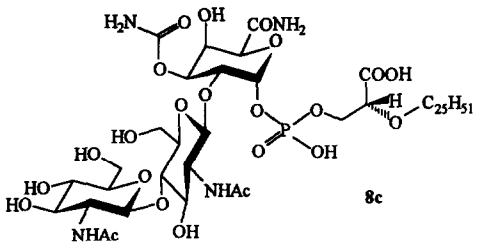


Tetrahedron, **1993**, *49*, 10587

THE FIRST SYNTHESIS OF A MOENOMYCIN-TYPE TRANSGLYCOSYLASE INHIBITOR

J Luning[a], U Moller[a], D Müller[a], P Welzel[a*],
A Markus[b], Y van Heijenoort[c], and J van Heijenoort[c]

[a]Fakultät für Chemie der Ruhr-Universität, D-44780 Bochum (Germany)
[b]Hoechst AG, D-65926 Frankfurt (Germany)
[c]Biochimie Moléculaire et cellulaire, Université Paris-Sud, Orsay (France)



8c

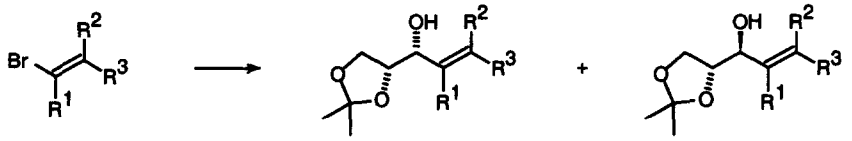
The moenomycin trisaccharide analogue **8c** has been synthesized It is an as active transglycosylase inhibitor as moenomycin A itself

Tetrahedron, **1993**, *49*, 10597

DIASTEREOSELECTIVE ADDITION OF LOWER ORDER VINYLCUPRATES TO (*R*)-2,3-*O*-ISOPROPYLIDENEGLYCERALDEHYDE

Peter Metz* and Andreas Schoop
Organisch-Chemisches Institut der Universität Münster, Corrensstrasse 40, D-48149 Münster, Germany

Highly *syn* or *anti* selective addition of lower order lithium vinylcuprates generated from bromides 1 to (*R*)-2,3-*O*-isopropylideneglyceraldehyde can be achieved, respectively, depending on the substitution pattern and the solvent



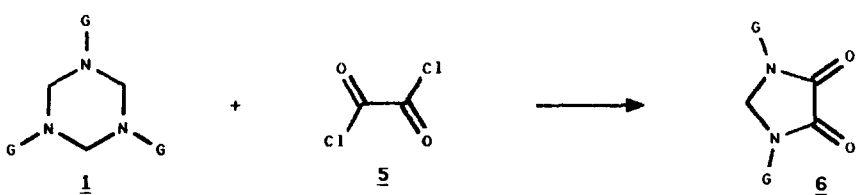
1 3 4

Tetrahedron, **1993**, *49*, 10609

HETEROCYCLES FROM HETEROCYCLES. 1,3-DIARYL-4,5-IMIDAZOLIDINEDIONES FROM 1,3,5-TRIARYHEXAHYDRO-1,3,5-TRIAZINES AND OXALYL CHLORIDE

G Verardo, A G Giumanini, F Gorassini, M Tolazzi and P Strazzolini
Department of Chemical Sciences and Technologies, University of Udine, Italy

1,3-Diaryl-4,5-imidazolidinediones (6) are easily synthesized from 1,3,5-triarylhexahydro-1,3,5-triazines (1) and Oxalyl Chloride (5)



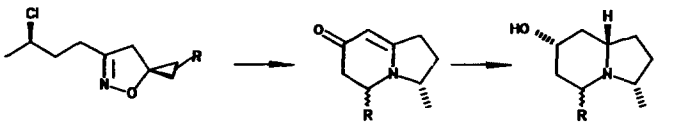
1 5 6

Tetrahedron, **1993**, *49*, 10629

ENANTIOSELECTIVE SYNTHESIS OF INDOLIZINE DERIVATIVES BY REARRANGEMENT-CYCLIZATION OF ISOXAZOLINE-5-SPIROCYCLOPROPANES

Ernesto G Occhiato, Antonio Guarna,* and Laura Michela Spinetti

Dipartimento di Chimica Organica "Ugo Schiff", and Centro C N R sulla Chimica e la Struttura dei Composti Eterociclici e loro Applicazioni, Università di Firenze, via Gino Capponi 9, I 50121 Firenze (Italy)



R= H, e e 74%

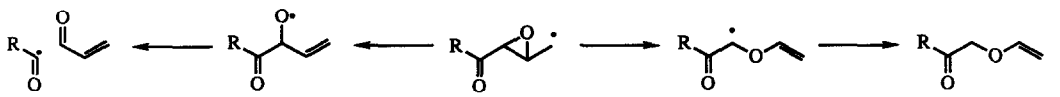
R= Ph, e e 96%

Tetrahedron, **1993**, *49*, 10643

RADICAL-INDUCED FRAGMENTATIONS OF KETOEPOXIDES.

Anthony P Breen, John A Murphy*, Christopher W Patterson and Nicholas F. Wooster,

Department of Chemistry, University of Nottingham, University Park, Nottingham NG7 2RD



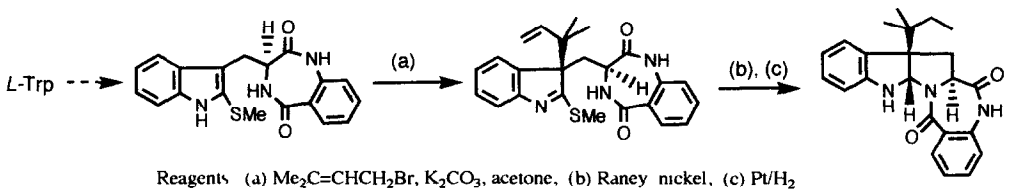
Tetrahedron, **1993**, *49*, 10655

THE SYNTHESIS OF (-)-DIHYDROASZONALENIN FROM *L*-TRYPTOPHAN; THE RELATIVE AND ABSOLUTE CONFIGURATION OF ASZONALENIN

Balkrishen Bhat[a] and David M Harrison*[b]

[a]Department of Chemistry, The University of Ulster, Coleraine Northern Ireland BT52 1SA, U K

[b]Department of Chemistry The University of Warwick Coventry CV4 7AL U K



Reagents (a) $Me_2C{=}CHCH_2Br$, K_2CO_3, acetone, (b) Raney nickel, (c) Pt/H_2

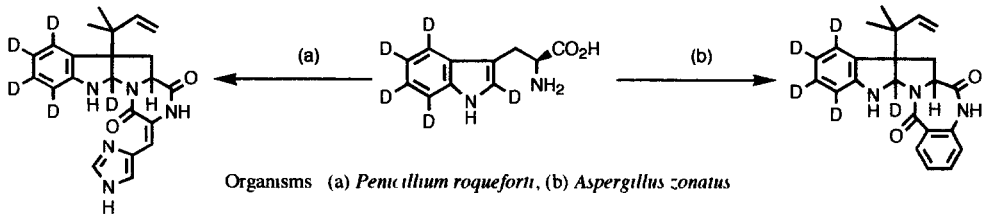
Tetrahedron, **1993**, *49*, 10663

THE BIOSYNTHESIS OF THE MOULD METABOLITES ROQUEFORTINE AND ASZONALENIN FROM *L*-[2,4,5,6,7-$^2H_5$]TRYPTOPHAN

Balkrishen Bhat,[a] David M Harrison,*[b] and H Maxine Lamont[a]

[a]Department of Chemistry, The University of Ulster, Coleraine, Northern Ireland BT52 1SA, U K

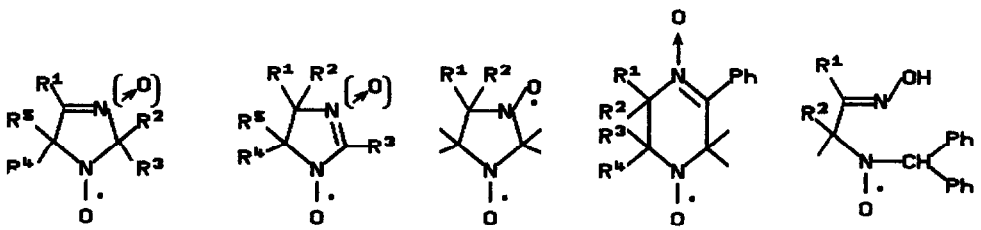
[b]Department of Chemistry, The University of Warwick, Coventry CV4 7AL, U K



Organisms (a) *Penicillium roqueforti*, (b) *Aspergillus zonatus*

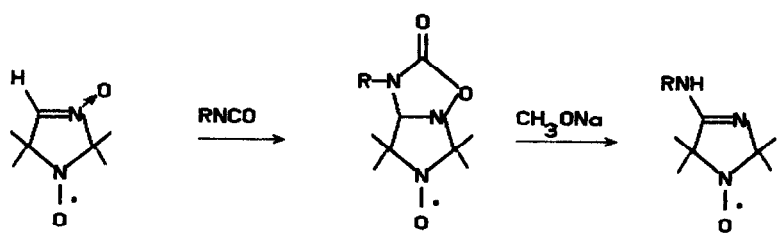
Tetrahedron, **1993**, *49*, 10669

INTERACTION OF HETEROCYCLIC NITRONES WITH ORGANOMETALLIC REAGENTS AS A METHOD FOR THE SYNTHESIS OF NEW TYPES OF NITROXIDES. Vladimir A. Reznikov*, Leonid B. Volodarsky. *Novosibirsk Institute of Organic Chemistry, Novosibirsk, 630090, Russia.*



Tetrahedron, **1993**, *49*, 10693

SYNTHESIS AND SOME PROPERTIES OF HETEROCYCLIC AMIDINE DERIVATIVES OF 3-IMIDAZOLINE NITROXIDES. Tatyana A. Berezina, Vladimir A. Reznikov,* Leonid B. Volodarsky. *Novosibirsk Institute of Organic chemistry, 630090, Novosibirsk, Russia.*



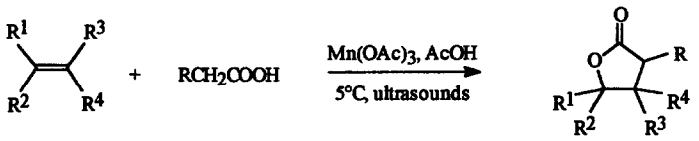
Tetrahedron, **1993**, *49*, 10705

LACTONIZATION OF OLEFINS MEDIATED BY $Mn(OAc)_3$: A SONOCHEMICAL APPROACH

Marcello Allegretti, Andrea D'Annibale and Corrado Trogolo

Dipartimento di Chimica, Università degli Studi di Roma "La Sapienza", P le Aldo Moro 5, 00185 Roma, Italy

Lactonization reaction of olefins promoted by $Mn(OAc)_3$ was carried out at low temperatures under ultrasound irradiation, affording good yields of γ-lactones in short reaction times

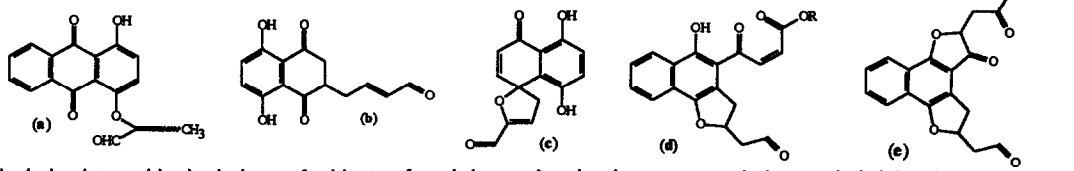


Tetrahedron, **1993**, *49*, 10715

STUDIES ON QUINONES 28. NOVEL REARRANGEMENTS OF DIELS-ALDER ADDUCTS OF NAPHTHO- AND ANTHRADIQUINONES

Francisco Fariña[a], M. Carmen Paredes[a]* and Jaime A Valderrama[b]*

[a]*Instituto de Química Orgánica General , C.S.I C , Juan de la Cierva, 3, 28006 Madrid, Spain and* [b]*Facultad de Química Pontificia Universidad Católica de Chile, Casilla 306, Santiago 22, Chile*



Alcohols obtained by hydrolysis of adducts of naphtho- and anthradiquinones with 1-trimethylsilyloxybuta-1,3-diene rearrange, under different conditions, to yield products of types (a)-(e)

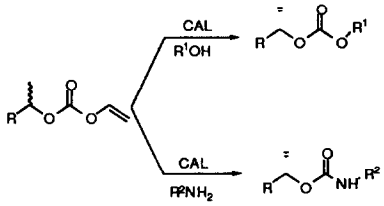
Tetrahedron, **1993**, *49*, 10725

KINETIC RESOLUTION OF VINYL CARBONATES THROUGH A LIPASE-MEDIATED SYNTHESIS OF THEIR CARBONATE AND CARBAMATE DERIVATIVES

Marcos Pozo and Vicente Gotor*

Departamento de Química Orgánica e Inorgánica, Facultad de Química, Universidad de Oviedo, 33071 Oviedo, Spain

Abstract· Chiral carbonates and urethanes were achieved from racemic vinyl carbonates through their kinetic resolution

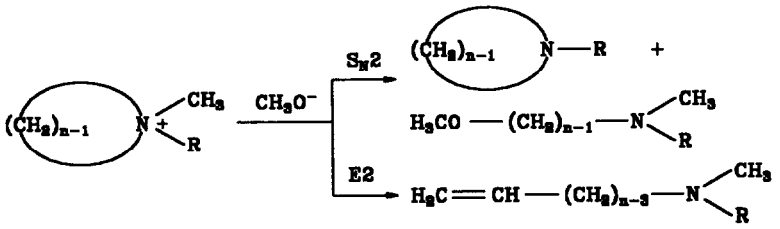


Tetrahedron, **1993**, *49*, 10733

RING-OPENING REACTIONS. THE REACTIVITY OF PYRROLIDINIUM AND PIPERIDINIUM IONS IN SOLUTION

G Cerichelli,[a] L Luchetti[b]
[a]Centro di Studio sui Meccanismi di Reazione, Università "La Sapienza", Roma, Italy
[b]Dipartimento di Scienze e Tecnologie Chimiche, Università "Tor Vergata", Roma, Italy

The product distributions are reported for reactions of azoniacycloalkanes with methoxide ion and rate constant determined for the competing E2 and S_N2 reaction pathways



Tetrahedron, **1993**, *49*, 10739

BRIDGED OCTAHOMOTETRAOXACALIX[4]ARENES FROM ACYCLIC PRECURSORS. Bernardo Masci* and Stefano Saccheo, Dipartimento di Chimica and Centro CNR di Studio sui Meccanismi di Reazione, Università La Sapienza, 00185 Roma, Italy

Monocyclic, bicyclic and tricyclic polyethers related to calix[4]arenes were prepared under a strict regiochemical control from open - chain tetraols or diols and the corresponding polybromides