

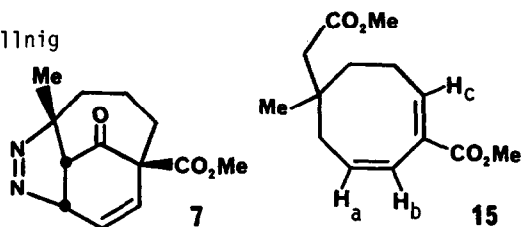
## GRAPHICAL ABSTRACTS

Tet.Lett., 27, 21, 2331 (1986)

PHOTOCHEMISTRY OF 1-CARBOMETHOXY-6-METHYLTRICYCLO-[4.3.1.0<sup>4,6</sup>]DEC-2-EN-10-ONE. PREPARATION OF A 1,3-CYCLOOCTADIENE

Arthur G. Schultz,\* Kan K. Eng and Rudolph K. Kullnig  
Department of Chemistry, Rensselaer Polytechnic  
Institute, Troy, NY 12180-3590 USA

The photoconversion of pyrazoline **7** to 1,3-cyclooctadiene **15** requires three photons.

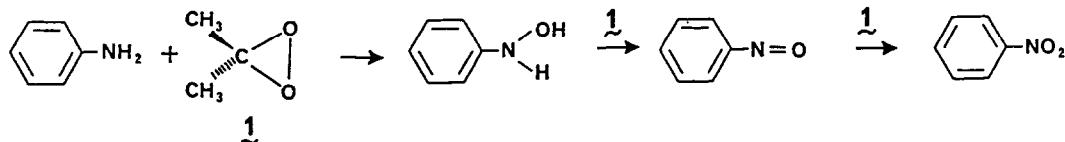


Tet.Lett., 27, 21, 2335 (1986)

A NEW SYNTHESIS OF NITRO COMPOUNDS USING DIMETHYLDIOXIRANE

Robert W. Murray,\* Ramasubbu Jeyaraman and Lily Mohan  
Department of Chemistry, University of Missouri-St. Louis, St. Louis, Missouri 63121 USA

Dimethyldioxirane readily oxidizes primary amines to nitro compounds.

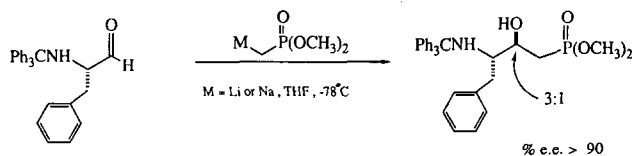


Tet.Lett., 27, 21, 2337 (1986)

THE ENANTIO- AND DIASTEREOSELECTIVE SYNTHESIS OF THE FIRST PHOSPHO-STATINE DERIVATIVE

Joseph F. Dellaria, Jr.\* and Robert G. Maki  
Abbott Laboratories, Cardiovascular Research Division, Abbott Park, Illinois 60064

The title compound was synthesized by the diastereoselective addition of the lithium or sodium anion of dimethyl methylphosphonate to *N*-trityl-L-phenylalaninal

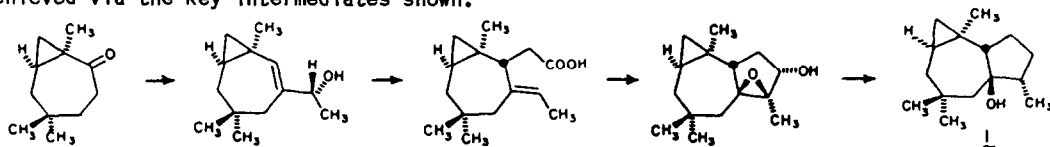


Tet.Lett., 27, 21, 2341 (1986)

TOTAL SYNTHESIS OF AFRICANOL

Leo A. Paquette\* and Won Hun Ham  
Department of Chemistry, The Ohio State University, Columbus, OH 43210 USA

A synthesis of (±)-africanol (**1**) has been achieved via the key intermediates shown.



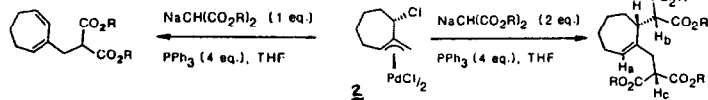
Tet.Lett., 27, 21, 2345 (1986)

REACTIVITY OF (3-CHLORO-2-METHYLENOCYCLOALKYL)PALLADIUM CHLORIDE DIMERS: NUCLEOPHILIC ATTACK BY ONE OR TWO EQUIVALENTS OF MALONATE ANION.

William A. Donaldson\* and Valerie J. Grief

Department of Chemistry, Marquette University, Milwaukee, WI 53233 USA

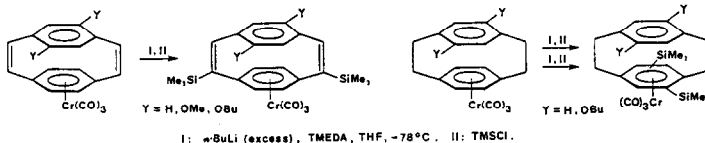
The reactivity of the title compounds **2** with malonate depends on the amount of nucleophile present.



Tet.Lett., 27, 21, 2353 (1986)

REGIODIRECTED SUBSTITUTION OF [2.2]PARACYCLOPHANEDIENES AND [2.2]PARACYCLOPHANES THROUGH TRICARBONYLCHROMIUM COMPLEXATION

Michael Stöbbe, Oliver Reiser, Thies Thiemann, Rhys G. Daniels, and Armin de Meijere\*  
Institute für Organische Chemie der Universität Hamburg, D-2000 Hamburg 13, W. Germany



I: *n*-BuLi (excess), TMEDA, THF, -78°C. II: TMSCl.

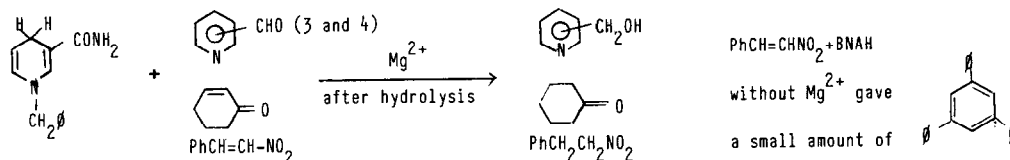
Tet.Lett., 27, 21, 2357 (1986)

REDUCTION WITH N-BENZYL-1,4 DIHYDRONICOTINAMIDE. A REINVESTIGATION.

P. Tintillier, G. Dupas, J. Bourguignon and G. Quéguiner

Laboratoire de Chimie Organique Fine, INSA-IRCOF, BP 08, 76130 Mont Saint Aignan (France)

Substrates previously reported to be inert or very unreactive towards BNAH have been reduced.



Tet.Lett., 27, 21, 2361 (1986)

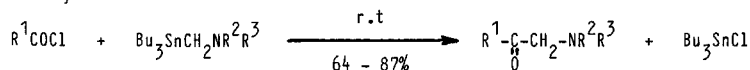
**N,N-DIALKYLAMINOMETHYLTRIBUTYLSTANNES AS PRECURSORS OF (N,N-DIALKYLAMINOMETHYL)KETONES**

Jean-Baptiste VERLHAC and Jean-Paul QUINTARD

Laboratoire de Chimie Organique du Silicium et de l'Étain, UA 35 du CNRS,

Université de Bordeaux I - 33405 - TALENCE CEDEX (FRANCE)

A synthesis of (N,N-dialkylaminomethyl)ketones via cross-coupling of acyl chlorides with (N,N-dialkylaminomethyl)tributylstannes:



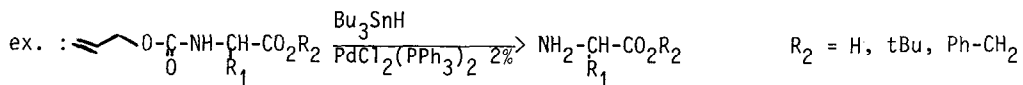
PALLADIUM-CATALYZED REACTION OF TRIBUTYLSTANNYL HYDRIDE.  
SELECTIVE AND VERY DEPROTECTION OF ALLYL AND  
ALLYLOXYCARBONYL DERIVATIVES OF AMINO-ACIDS.

Tet.Lett., 27, 21, 2365 (1986)

Guibé F. \*, Dangles O. and Balavoine G.

Institut de Chimie Moléculaire d'ORSAY, labo. C.O.E.T., U.A.-CNRS n°255 91405 ORSAY (France)

N-allyloxycarbonyl derivatives of amino-acids are very selectively deprotected under mild conditions by palladium-catalyzed hydrostannolytic cleavage with tributyltin hydride.

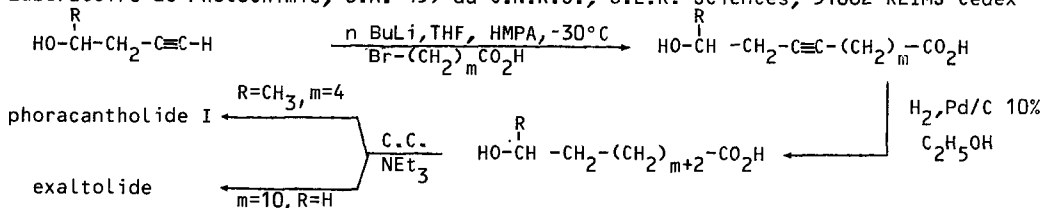


Tet.Lett., 27, 21, 2369 (1986)

A THREE STEP SYNTHESIS OF EXALTOLIDE AND PHORACANTHOLIDE I

J. Cossy, J.P. Pete

Laboratoire de Photochimie, U.A. 459 du C.N.R.S., U.E.R. Sciences, 51062 REIMS Cédex



Tet.Lett., 27, 21, 2371 (1986)

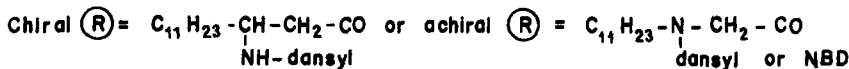
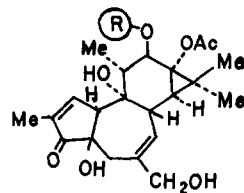
SYNTHESIS OF BIOLOGICALLY ACTIVE FLUORESCENT  
PHORBOL ESTERS

P.L. TRAN <sup>1\*</sup>, M.J. BRIENNE <sup>2</sup>, J. MALTHÊTE <sup>2</sup> and L. LACOMBE <sup>2</sup>

<sup>1</sup> Programmation Moléculaire et Toxicologie Génétique, Institut

Pasteur, 75015 Paris, <sup>2</sup> Chimie des Interactions Moléculaires

Collège de France, 75005 Paris, France.



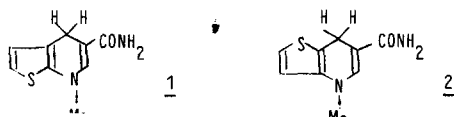
Tet.Lett., 27, 21, 2375 (1986)

BIOMIMETIC REDUCTION WITH NON WATER-SENSITIVE NADH MODELS

J. Cazin, G. Dupas, J. Bourguignon and G. Quéguiner

Laboratoire de Chimie Organique Fine, INSA-IRCOF, BP 08, 76130 Mont Saint Aignan (France)

Two NADH models, considerably less water-sensitive than N-benzyl-1,4 dihydronicotinamide (BNAH) have been synthesized. Yields of reduction of p-nitrobenzaldehyde with 1 or 2 in presence of water are quantitative, with BNAH they are lowest.

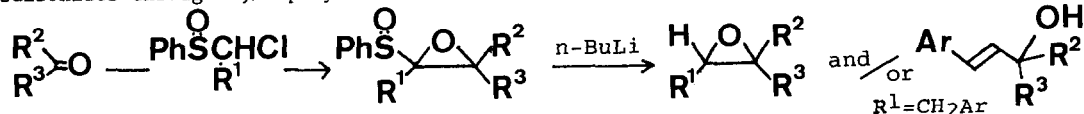


Tet.Lett., 27, 21, 2379 (1986)

A NOVEL SYNTHESIS OF EPOXIDES AND ALLYLIC ALCOHOLS FROM CARBONYL COMPOUNDS THROUGH  $\alpha,\beta$ -EPOXY SULFOXIDES

Tsuyoshi Satoh, Youhei Kaneko and Koji Yamakawa\*  
Science University of Tokyo, Ichigaya-funagawara-machi, Tokyo 162, Japan

Epoxides and allylic alcohols are synthesized from carbonyl compounds and 1-chloroalkyl phenyl sulfoxides through  $\alpha,\beta$ -epoxy sulfoxides on treatment with n-butyllithium.

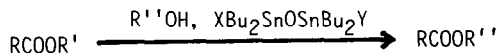


Tet.Lett., 27, 21, 2383 (1986)

NOVEL DISTANNOXANE-CATALYZED TRANSESTERIFICATION AND A NEW ENTRY TO  $\alpha,\beta$ -UNSATURATED CARBOXYLIC ACIDS

Junzo Otera,\* Toru Yano, Atsuya Kawabata, and Hitosi Nozaki  
Okayama University of Science, Ridai-cho, Okayama 700, Japan

Novel distannoxane-catalyzed transesterification reaction has been developed which affords various types of esters under very mild conditions.

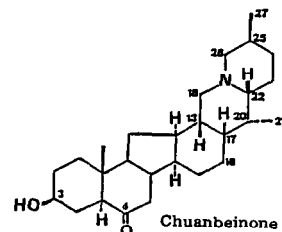


Tet.Lett., 27, 21, 2387 (1986)

CHUANBEINONE, A NOVEL D/E CIS-(22R, 25S)-5 $\alpha$ -CEVANINE ALKALOID FROM CHINESE HERBAL DRUG, CHUAN-BEI-MU.

Ko Kaneko, Takao Katsuhara, and Hiroshi Mitsuhashi  
Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo 060, Japan., Yuh-Pan Chen and Hong-Yen Hsu, Oriental Healing Arts Institute, Long Beach, Cal. 90815, USA, Motoo Shiro, Shionogi Research Laboratory, Osaka 553, Japan.

Chuanbeinone: D/E *cis*-(22R, 25S)-20-deoxy-5 $\alpha$ -cevanine-3 $\beta$ -ol-6-on: was isolated from chinese herbal drug, 'chuan-bei-mu' (from some subspecies of *Fritillaria delavayi* Franch.

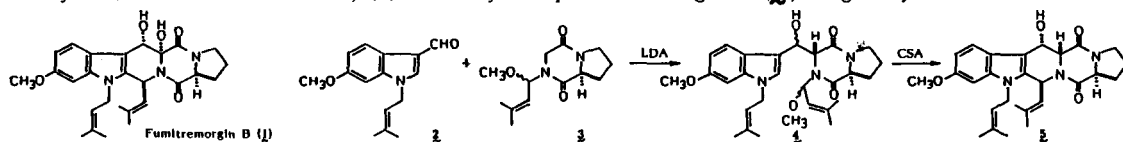


SYNTHETIC STUDIES ON FUMITREMORGIN I.

SYNTHESIS OF ( $\pm$ )-12-DEOXY-12-EPIFUMITREMORGIN B

Shin-ichi Nakatsuka,\* Hideki Miyazaki, Katsunori Teranishi and Toshio Goto  
Laboratory of Organic Chemistry, Faculty of Agriculture, Nagoya University, Nagoya 464, Japan

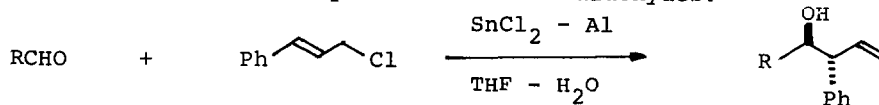
The aldol product of **2** and **3** was a mixture of four stereoisomers **4**, which were converted to single tetrahydro- $\beta$ -carboline derivative, ( $\pm$ )-12-deoxy-12-epifumitremorgin B (**5**), in good yield.



Tet.Lett., 27, 21, 2395 (1986)

REDUCTIVE GENERATION OF ACTIVE ZERO-VALENT TIN IN  $\text{SnCl}_2$ -Al SYSTEM AND ITS USE FOR HIGHLY DIASTEREOSELECTIVE REACTION OF CINNAMYL CHLORIDE AND ALDEHYDES  
 Kenji Uneyama, Hiromi Nanbu, and Sigeru Torii\*  
 Department of Industrial Chemistry, School of Engineering, Okayama University, Okayama 700, Japan

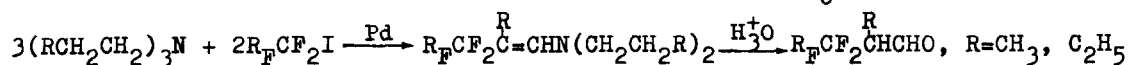
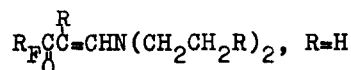
Active zero-valent tin generated in  $\text{SnCl}_2$ -Al system promotes highly diastereoselective reaction of cinnamyl chloride with aldehydes.



Tet.Lett., 27, 21, 2397 (1986)

STUDIES ON THE Pd CATALYZED REACTION OF PERFLUOROALKYL AND POLYFLUOROALKYL IODIDES WITH TERTIARY AMINES  
 Yaozeng Huang and Qilin Zhou  
 Shanghai Institute of Organic Chemistry, 345 Lingling Lu, Shanghai China

Reaction of perfluoroalkyl and polyfluoroalkyl iodides with tertiary amines gave enamines.

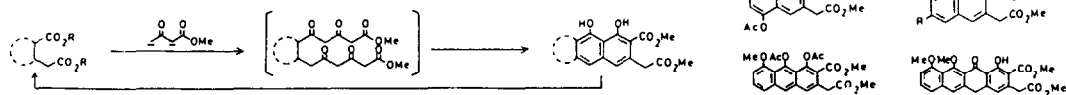


Tet.Lett., 27, 21, 2401 (1986)

A BIOMIMETIC SYNTHESIS OF POLYCYCLIC POLYOXYGENATED AROMATIC COMPOUNDS VIA POLYKETIDES

Masahiko Yamaguchi, Koichi Hasebe, and Toru Minami  
 Department of Industrial Chemistry, Kyushu Institute of Technology

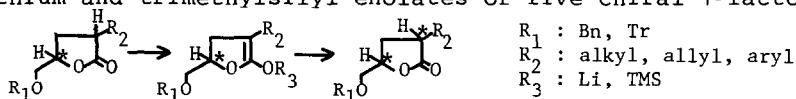
Polyoxygenated naphthalenes, anthracenes, and a naphthacene are synthesized from glutarates and acetoacetate dianion via polyketides.



STEREOSELECTIVE KINETIC PROTONATION OF CHIRAL  $\gamma$ -LACTONE ENOLATES

Seiichi Takano, Junko Kudo, Michiyasu Takahashi, and Kunio Ogasawara  
 Pharmaceutical Institute, Tohoku University, Aobayama, Sendai 980, Japan

The first examples of regio- and stereoselective protonation directed by silicon atom and enantiodiscriminating protonation with chiral proton source are shown via lithium and trimethylsilyl enolates of five chiral  $\gamma$ -lactone substrates.



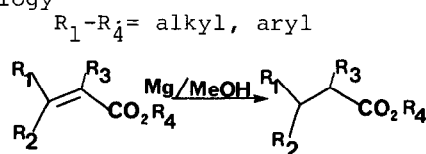
Tet.Lett., 27, 21, 2405 (1986)

Tet.Lett., 27, 21, 2409 (1986)

MAGNESIUM-METHANOL AS A SIMPLE CONVENIENT  
REDUCING AGENT FOR  $\alpha,\beta$ -UNSATURATED ESTERS

In Kwon Youn, Gyu Hwan Yon, and Chwang Siek Pak\*  
Korea Research Institute of Science and Technology  
P.O. Box 9, Daedeog-Danji, Korea

Various types of conjugated esters can be  
reduced with magnesium in methanol

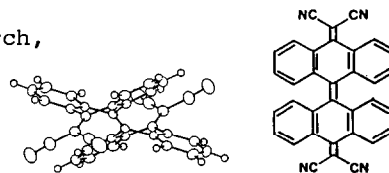


Tet.Lett., 27, 21, 2411 (1986)

SYNTHESIS OF 29,29,30,30-TETRACYANO-  
BIANTHRAQUINODIMETHANE

Shunro Yamaguchi, Terukiyo Hanafusa, Takanori Tanaka,  
Masami Sawada, Kozi Kondo, Masahiro Irie, Hitoshi Tatemitsu  
Yoshiteru Sakata, and Soichi Misumi  
The Institute of Scientific and Industrial Research,  
Osaka University, Ibaraki, Osaka 567, Japan

Preparation and crystal structure of  
title compound were described.



Tet.Lett., 27, 21, 2423 (1986)

EFFICIENT INTRAMOLECULAR NUCLEOPHILIC CATALYSIS IN THE  
BASE-CATALYZED HYDROLYSIS OF  $o$ -(1-HYDROXYALKYL)- $N,N$ -  
DIMETHYLBENZENESULFONAMIDES

Jan Wouter Drijfhout, Anno Wagenaar, Jan B.F.N. Engberts;  
Department of Organic Chemistry, University of Groningen, Nijenborgh 16, 9747 AG Groningen,  
The Netherlands

