

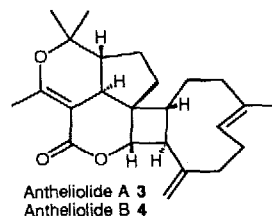
GRAPHICAL ABSTRACTS

Tetrahedron Lett. 30, 3363 (1989)

REVISED STRUCTURES OF ANTHELIOLIDES A AND B

Amos B. Smith, III, and Patrick J. Carroll,
Department of Chemistry, the Laboratory for Research on the Structure
of Matter, and the Monell Chemical Senses Center,
University of Pennsylvania, Philadelphia, PA 19104, U.S.A., and
Yoel Kashman and Dahlia Green
School of Chemistry, Tel Aviv University,
Ramat Aviv 69978, Israel

Revised structures for anthelioides A and B (**3** and **4**), as revealed by single
crystal X-ray analysis of **3**, are presented together with corrected NMR
assignments and modified biosynthetic proposals.

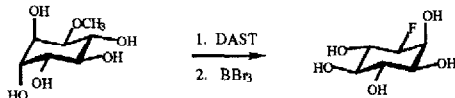


Tetrahedron Lett. 30, 3365 (1989)

A SIMPLIFIED ROUTE TO THE PHOSPHATIDYLINOSITOL CASCADE
INHIBITOR --- (-)-1L-1-DEOXY-1-FLUORO-MYO-INOSITOL.

Alan P. Kozikowski,* Abdul H. Fauq and James M. Rusnak
Departments of Chemistry and Behavioral Neuroscience
1101 Chevron Science Center, University of Pittsburgh, Pittsburgh, PA 15260

A two step synthesis of the PI cascade inhibitor 3-deoxy-3-fluoro-*myo*-inositol from the natural rubber serum
product quebrachitol is described.

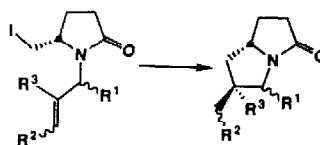


Tetrahedron Lett. 30, 3369 (1989)

ASYMMETRIC SYNTHESIS OF PYRROLIZIDINONES BY RADICAL CYCLIZATION
OF N-ALLYLIC PYROGLUTAMATES

Paul F. Keusenkothen and Michael B. Smith*
Department of Chemistry, University of Connecticut, Storrs, Connecticut, 06269

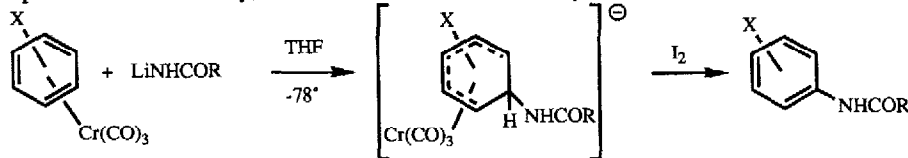
Radical cyclization of S- C₅-iodomethyl-2-pyrrolidinone with
AIBN and Bu₃SnH gives good yields of the C₆ substituted
pyrrolizidin-2-one with excellent diastereoselectivity.



Tetrahedron Lett. 30, 3373 (1989)

ADDITION OF N-LITHIOAMIDES TO π-ARENECHROMIUM
TRICARBONYL COMPLEXES.
PREPARATION OF ANILINE DERIVATIVES

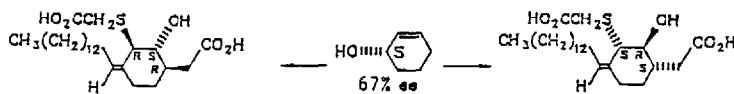
L. Keller,* K. Times-Marshall, S. Behar, and K. Richards
Department of Chemistry, Florida International University, Miami, FL 33199 USA



Tetrahedron Lett. 30, 3377 (1989)

CONFORMATIONALLY RESTRICTED LEUKOTRIENE ANTAGONISTS.
ASYMMETRIC SYNTHESIS OF SOME NOR-LEUKOTRIENE D ANALOGS
Jeffrey S. Sabol*, Merrell Dow Research Institute
2110 East Galbraith Road, Cincinnati, Ohio 45215, U.S.A.

Robert J. Cregge, Merrell Dow Research Institute
9550 North Zionsville Road, Indianapolis, Indiana 46268, U.S.A.



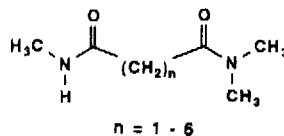
Tetrahedron Lett. 30, 3381 (1989)

Intramolecular Hydrogen Bonding in Simple Diamides

Samuel H. Gellman and Bruce R. Adams

Department of Chemistry, University of Wisconsin,
Madison, WI 53706

Intramolecular hydrogen bonding is detected in a homologous series of diamides by proton NMR. Variable temperature experiments suggest an unexpectedly favorable interaction when the hydrogen bond involves a nine-membered ring.

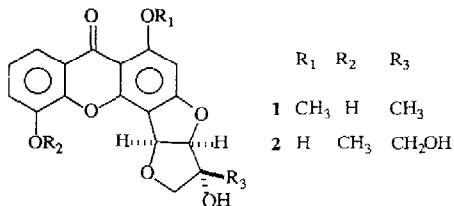


Tetrahedron Lett. 30, 3385 (1989)

NOVEL TETRAHYDROFUROBENZOFURANOXANTHONES FROM *PSOROSPERMUM FEBRIFUGUM*

Mohamed Abou-shoer, Khanit Suwanborirux, Ching-je Chang, Department of Medicinal Chemistry and Pharmacognosy, School of Pharmacy and Pharmaceutical Sciences, Purdue University, West Lafayette, IN 47907.
and John M. Cassidy*, College of Pharmacy, the Ohio State University, Columbus, OH 43210, U.S.A.

The Structures of 1 and 2 were reported as first members of the xanthones containing a new tetrahydrofurobenzofuran ring.

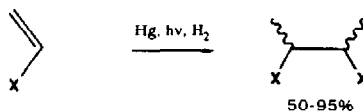


Tetrahedron Lett. 30, 3389 (1989)

HYDRODIMERIZATION OF UNSATURATED ALCOHOLS, ESTERS, NITRILES, KETONES, AMINES, SILANES, EPOXIDES AND FLUOROCARBONS BY MERCURY PHOTOSENSITIZATION.

Cesar A. Muedas, Richard R. Ferguson, and Robert H. Crabtree*
Sterling Chemistry Laboratory, Yale University, New Haven, CT 06520

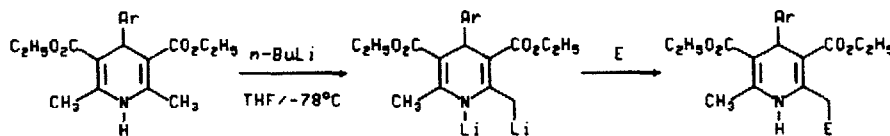
Simple and functionalized olefins are efficiently coupled on a preparative scale in an H_2 atmosphere with Hg and 254 nm light in the vapor phase.



Tetrahedron Lett. 30, 3393 (1989)**METALATION OF 1,4-DIHYDROPYRIDINE ESTERS**

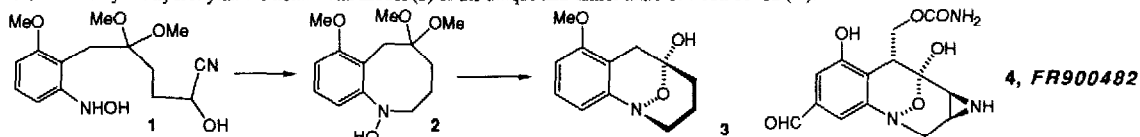
Graham S. Poindexter*, Michael A. Foley, and Joseph F. Licause
 Pharmaceutical Research and Development Division, Bristol-Myers Co., Wallingford, CT 06492

The metalation of 1,4-dihydropyridine esters was investigated. The synthetic potential of this transformation is described.

Tetrahedron Lett. 30, 3397 (1989)**SYNTHETIC STUDIES ON FR900482: PROMISING METHOD TO CONSTRUCT THE BICYCLIC HYDROXYLAMINE HEMI-KETAL RING SYSTEM**

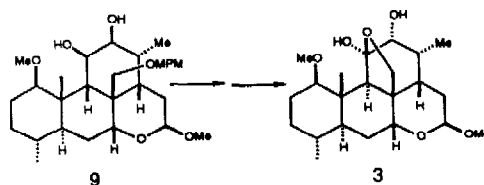
Nobuyoshi Yasuda and Robert M. Williams*
 Department of Chemistry, Colorado State University, Fort Collins, Colorado 80523

Intramolecular reductive amination of **1** is utilized as a key 8-membered ring-forming cyclization reaction to construct the novel bicyclic hydroxylamine hemi-ketal model (**3**) of the unique anti-tumor antibiotic FR900482 (**4**).

Tetrahedron Lett. 30, 3401 (1989)**CHEMICAL TRANSFORMATIONS IN THE QUASSINOID SERIES: CONSTRUCTION OF THE C(8),C(11) BRIDGED HEMIKETAL RING SYSTEM OF CHAPARRINONE AND RELATED QUASSINOIDS**

Paul A. Grieco,* David T. Parker, Philip Garner and Shigeki Sasaki
 Dept. of Chemistry, Indiana University, Bloomington, IN 47405

A facile five-step sequence commencing with picrasane derivative **9** has been developed for elaboration of the sensitive ring C hemiketal unit of chaparrinone [cf pentacyclic alcohol **3**].

Tetrahedron Lett. 30, 3405 (1989)**IDENTIFICATION OF (3Z,6Z)-1,3,6,9,10-EPOXYHENICOSATRIENE AND (3Z,6Z)-1,3,6,9,10-EPOXYEICOSATRIENE IN THE SEX PHEROMONE OF HYPHANTRIA CUNEA**

M. Tóth, H.R. Buser, A. Peña, H. Arn, K. Mori, T. Takeuchi, L.N. Nikolaeva and B.G. Kovalev
 Swiss Federal Research Station, Wädenswil, Switzerland, Research Institute of Plant Protection, Budapest, Hungary, Department of Agricultural Chemistry, University of Tokyo, Tokyo, Japan, All-Union Research Institute for Biological Control Methods of Plant Protection, Kishinev, Soviet Union

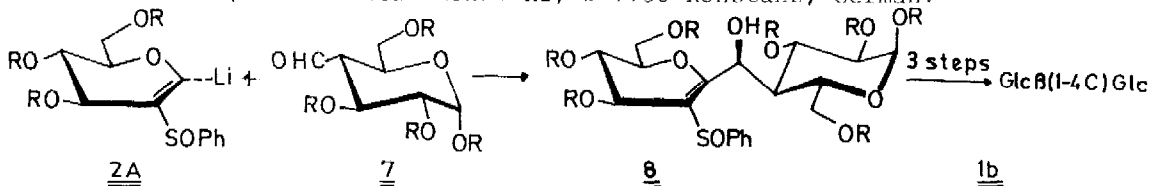


Enantiomer pairs were stereoselectively synthesized; the (9*S*,10*R*) enantiomers proved biologically active.

Tetrahedron Lett. 30, 3409 (1989)

SYNTHESIS OF CARBON BRIDGED
C-DISACCHARIDES

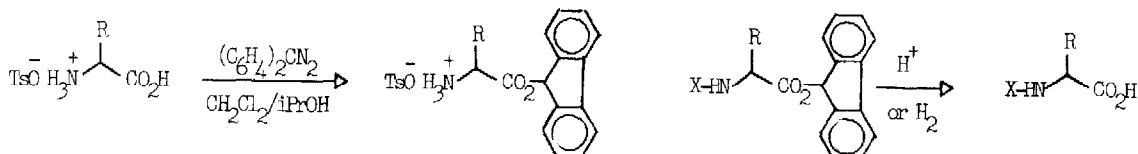
Richard R. Schmidt and Rainer Preuss
Fakultät Chemie, Universität Konstanz, D-7750 Konstanz, Germany



Tetrahedron Lett. 30, 3413 (1989)

NOUVELLE METHODE DE PROTECTION DU CARBOXYLE
DES ACIDES α -AMINES: ESTERS 9-FLUORENYLIQUES

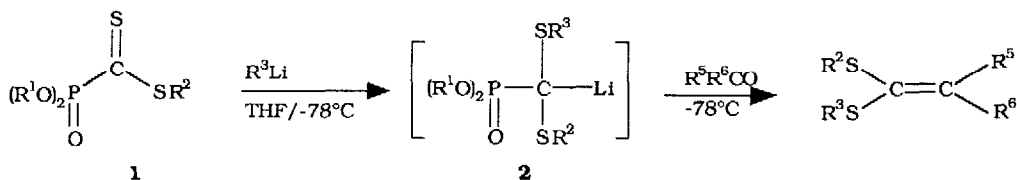
Cléanthis Froussios* et Miltiadis Kolovos
Département de Chimie, Université d'Athènes, 13A rue Navarinou, 10680 Athènes, Grèce



Tetrahedron Lett. 30, 3415 (1989)

THE USE OF PHOSPHONODITHIOFORMATES FOR
THE SYNTHESIS OF KETENE DITHIOACETALS

Andrew Bulpin, Serge Masson* and Aboubacary Sene
Laboratoire des Composés Thioorganiques, ISMRA, Université de Caen, F 14032 CAEN (FRANCE).
Phosphonodithioformates **1** undergo thiophilic addition with organolithium reagents forming a lithiated dithioacetal **2** suitable for usage *in situ* in Wittig-Horner reactions.

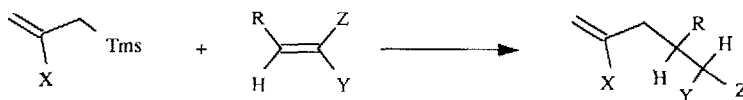


Tetrahedron Lett. 30, 3419 (1989)

FLUORIDE ION INDUCED ALLYLATION OF ACTIVATED ALKENES.

Stéphane PERNEZ and Jack HAMELIN*
Université de Rennes I, Campus de Beaulieu, 35042 Rennes Cedex, France.

In the presence of fluoride anions, β -substituted allylsilanes behave as nucleophiles and not as anionic 1,3 dipoles.



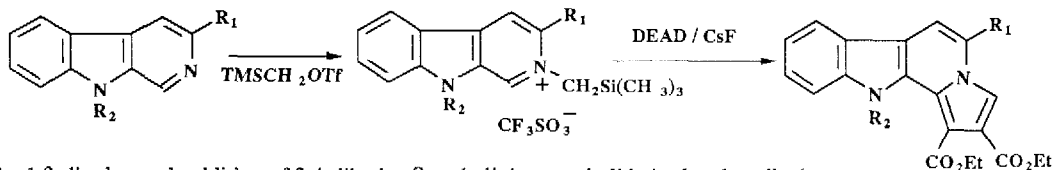
X = Ph, Tms ; R = Ph, CO₂ Me ; Z = H, CN, CO₂ Me ; Y = H, CO₂ Me

Tetrahedron Lett. 30, 3423 (1989)GENERATION OF β -CARBOLINE AZOMETHINE YLIDES

VIA TRIMETHYLSILYLMETHYL TRIFLUOROMETHANE SULFONATE QUATERNISATIONS: ENTRY INTO THE NEW CLASS OF 11H-INDOLIZINO[8,7-b]INDOLE HETEROCYCLES.

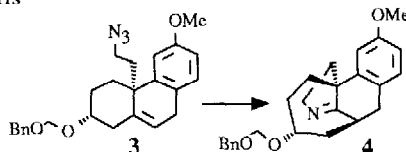
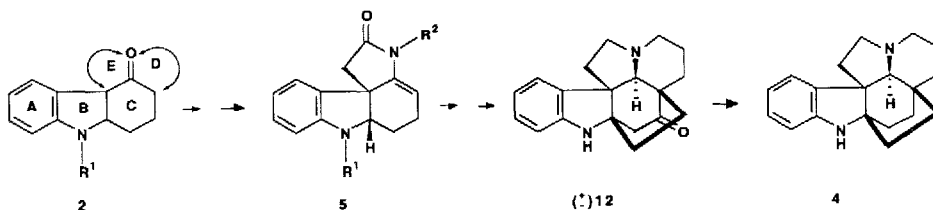
Guillaume Poissonnet, Pierre Potier, and Robert H. Dodd*

Institut de Chimie des Substances Naturelles, C.N.R.S., 91198 Gif-sur-Yvette, France

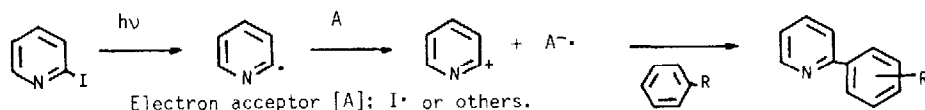
The 1,3-dipolar cycloaddition of 3,4-dihydro- β -carbolinium methyllide is also described.Tetrahedron Lett. 30, 3427 (1989)

UNEXPECTED REARRANGEMENT INVOLVING AZIDE-OLEFIN CYCLOADDITION IN MORPHINAN SERIES

SDASSI H., REVIAL G., PFAU M. and d'ANGELO J., ESPCI, Paris

Azide **3** rearranges into tetracyclic derivative **4**TOTAL SYNTHESIS OF (\pm) ASPIDOFRACTININEMonique Dufour^a, Jean-Claude Gramain^{a*}, Henri-Philippe Husson^b,
Marie-Eve Simibaldi^a and Yves Troin^a^a Chimie des Substances Naturelles, Unité Associée au CNRS 485,
Université Blaise Pascal, 63177 Aubière, France^b Institut de Chimie des Substances Naturelles, C.N.R.S., 91198 Gif-sur-Yvette, FranceTetrahedron Lett. 30, 3429 (1989)

THE PYRIDYL CATION AS A REACTIVE INTERMEDIATE IN THE PHOTOREACTION OF IODOPYRIDINES WITH BENZENES.

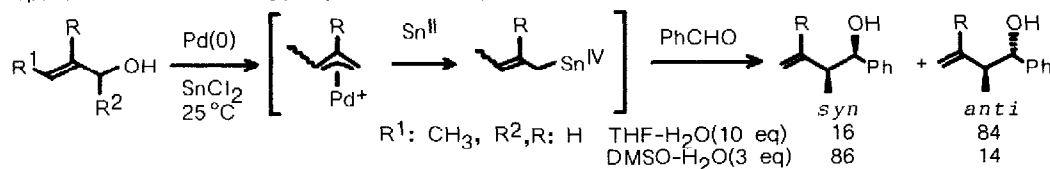
Kazue Ohkura,^a Koh-ichi Seki,^{a*} Masanao Terashima,^a and Yuichi Kanaoka^b
^aFaculty of Pharmaceutical Sciences, Higashi-Nippon-Gakuen University, Ishikari-Tobetsu, Hokkaido 061-02, Japan. ^bFaculty of Pharmaceutical Sciences, Hokkaido University, Sapporo 060, Japan.Tetrahedron Lett. 30, 3433 (1989)

Tetrahedron Lett., 30, 3437 (1989)

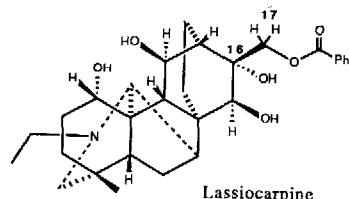
PALLADIUM-CATALYZED CARBONYL ALLYLATION BY
ALLYLIC ALCOHOLS WITH SnCl_2 . A SOLVATION-
CONTROLLED DIASTEREOSELECTION

Yoshiro Masuyama,* Jun P. Takahara, and Yasuhiko Kurusu

Department of Chemistry, Sophia University, 7-1 Kioicho, Chiyoda-ku, Tokyo 102, Japan

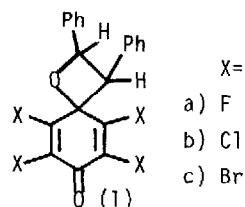
Tetrahedron Lett., 30, 3441 (1989)

LASSIOLARPINE, A NOVEL C_{20} -DITERPENE
ALKALOID ISOLATED FROM *ACONITUM KOJIMAE* OHWI

Hiromitsu Takayama,^a Jing-Jing Sun,^a Norio Aimi,^a Shin-ichiro Sakai,^{a*}
Sheng-Teh Lu,^b and Ih-Sheng Chen^bFaculty of Pharmaceutical Sciences, Chiba University, 1-33, Yayoi-cho,
Chiba 260, Japan.^a Kaohsiung Medical College, No.100, Shih-Chuan 1st
Road, Kaohsiung, Taiwan Republic of China.^bThe structure of a new C_{20} -diterpene alkaloid, lassiocarpine, which
possessed a hydroxy group at C_{16} and an ester function at C_{17} position,
was established by the spectroscopic analysis.Tetrahedron Lett., 30, 3443 (1989)

HIGHLY STEREOSPECIFIC THERMOLYSIS OF
SPIROOXETANES CONTAINING TETRAHALOGENATED
1,4-BENZOQUINONES

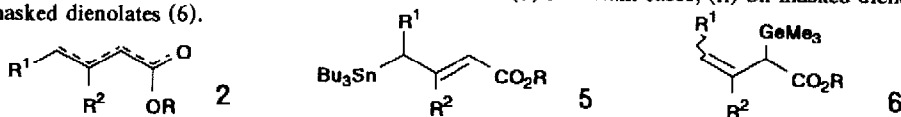
Takumi Oshima* and Toshikazu Nagai

Institute of Chemistry, College of General Education,
Osaka University, Toyonaka, Osaka 560, JapanThermal decomposition of *cis*- and *trans*-spirooxetanes (1)
proceeded with 94-100% retention of stereochemistry to
give stilbene.Tetrahedron Lett., 30, 3445 (1989)

REGIOSELECTIVE SYNTHESIS OF EITHER α - OR γ -AMINO
ACID DERIVATIVES VIA Li, Sn-MASKED, AND/OR
Ge-MASKED DIENOLATES

Yoshinori Yamamoto,* Satoshi Hatsuya, and Jun-ichi Yamada

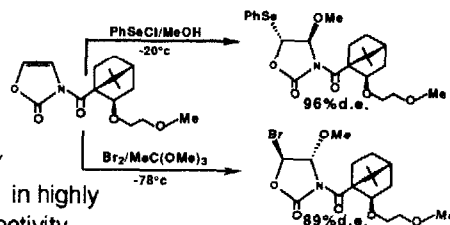
Department of Chemistry, Faculty of Science, Tohoku University, Sendai 980, Japan

Either the α - or γ -amino acid derivatives can be prepared with very high regioselectivity by treating diethyl
azodicarboxylate (DEAD) with (i) lithium dienolates themselves (2) in certain cases, (ii) Sn-masked dienolates (5),
or (iii) Ge-masked dienolates (6).

NEW CAMPHOR-DERIVED AUXILIARIES IN METHOXYSELENYLATION AND METHOXYBROMINATION WITH OPPOSITE DIASTEREO-FACIAL SELECTIVITY. PREPARATION OF β -AMINO ALCOHOL CHIRAL SYNTHONS

Tadao Ishizuka, Seigo Ishibuchi and Takehisa Kunieda*
Faculty of Pharmaceutical Sciences, Kumamoto University

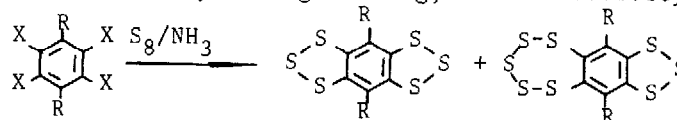
Methoxyselenylation and Methoxybromination of **4** proceed in highly deastereoselective manner, but with *opposite* π -facial selectivity.



FIRST DIRECT SYNTHESIS OF 4,8-DIALKYLBENZO-[1,2-d;4,5-d']BIS[1,2,3]TRITHIOLES AND 6,10-DIALKYL[1,2,3]TRITHIOLO[5,4-h]BENZOPENTATHIEPINS FROM 1,4-DIALKYL-2,3,5,6-TETRABROMOBENZENES

Ryu Sato,* Takeshi Kimura, Takehiko Goto, Minoru Saito, and Chizuko Kabuto†
Department of Resource Chemistry, Faculty of Engineering, Iwate University, Morioka 020, Japan,

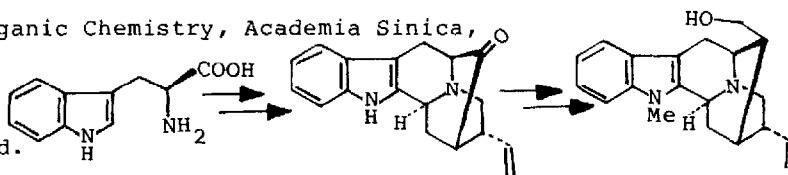
† Department of Chemistry, Faculty of Science, Tohoku University, Sendai 980, Japan



TOTAL SYNTHESIS OF N_a-METHYL- Δ^{18} -ISOKOUMIDINE, A POSSIBLE PRECURSOR OF THE KOUMINE TYPE INDOLE ALKALOIDS

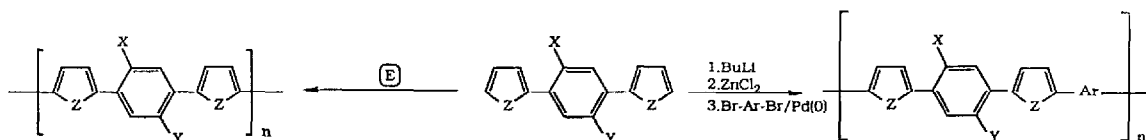
Zhujin LIU* Feng XU
Shanghai Institute of Organic Chemistry, Academia Sinica, Shanghai 200032, China

A novel total synthesis of title compound from L-tryptophan is described.



CHEMICAL AND ELECTROCHEMICAL SYNTHESIS OF ELECTROACTIVE BENZENOID-HETEROAROMATIC POLYMERS

Andrew Pelter,^a John M. Maud,^a Ieuan Jenkins,^a Chaza Sadaka^a and Gary Coles^b
Departments of Chemistry^a and Electrical Engineering,^b University College of Swansea, Singleton Park, Swansea SA2 8PP, U.K.

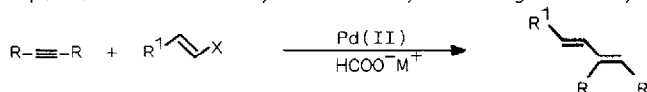


Tetrahedron Lett. 30, 3465 (1989)

PALLADIUM-CATALYSED STEREOSELECTIVE HYDROVINYLATION OF
DISUBSTITUTED ACETYLENES: PREPARATION OF FUNCTIONALIZED
1,2,4-TRISUBSTITUTED-1,3-DIENES

A. Arcadi^a, E. Bernocchi^b, A. Burini^c, S. Cacchi^{b*}, F. Marinelli^a, B. Pietroni^c

a) Dip. Chim., Ing. Chim. e Materiali, Università, V. Assergi 4, 67100 L'Aquila (Italy); b) Dip. Studi di Chimica e Tecno. Sost. Biol. Attive, Università "La Sapienza", P.le A. Moro 5, 00185 Roma (Italy); c) Dip. Scienze Chimiche, Università, V. S. Agostino 1, 62032 Camerino (Italy)

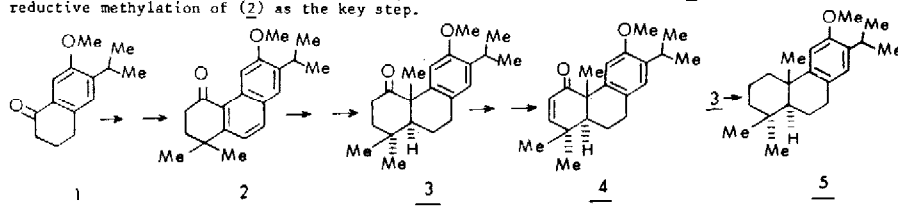


TOTAL SYNTHESIS OF (+)-SHONANYL METHYL ETHER AND (+)-FERRUGINYL METHYL ETHER

Tetrahedron Lett. 30, 3469 (1989)

Manuka Ghosal, Sukanta Bhattacharyya and Debabrata Mukherjee^{*}
Department of Organic Chemistry, Indian Association for the
Cultivation of Science, Jadavpur, Calcutta - 700 032, India

Total synthesis of shonanyl methyl ether (4) and ferruginyl methyl ether (5) involving
reductive methylation of (2) as the key step.



NOVEL PATHWAYS FOR THE FORMATION
OF PHENYLPYRROLES

Tetrahedron Lett. 30, 3471 (1989)

George J. Ellames,^{a*} Cheryl T. Hewkin,^b

Richard F.W. Jackson,^{b*} David I. Smith,^a and Stephen P. Standen^b

^a Sterling Research Group-Europe, Sterling-Winthrop Research Centre, Willowburn Avenue, Alnwick, Northumberland, NE66 2JH.

^b Department of Chemistry, Bedson Building, The University, Newcastle upon Tyne, NE1 7RU.

Treatment of the dihydrooxazine (5) with
KOH/DMSO at 100 °C gave 2-phenylpyrrole
(2a); similar treatment of the nitron (6)
gave 2-methyl-5-phenylpyrrole (12).

