#### **GRAPHICAL ABSTRACTS**

Tetrahedron Lett.30,6109(1989)

THE MUKAIYAMA REACTION OF

KETENE BIS(TRIMETHYLSILYL) ACETALS WITH a-HALO ACETALS

- A CONVENIENT BUTENOLIDE SYNTHESIS

F. W. J. Demnitz

Departamento de Química Fundamental, Universidade Federal de Pernambuco, 50.739 - Recife - PE, Brazil

Ketene bis(trimethylsily!) acetals were reacted with  $\alpha$ -halo acetals giving  $\beta$ -alkoxy- $\gamma$ -halo acids which were converted to butenolides by reaction with two equivalents of base.

or provides by reaction with two equivalents of bas  $R^2$ ,  $R^3$ 

OTMS

R<sup>1</sup> Br(Cl)

TiCl

R<sup>1</sup> R<sup>2</sup> R<sup>3</sup> Br(Cl)

DBU or

Tetrahedron Lett.30,6113(1989)

AN EXPEDIENT SYNTHESIS OF  $\alpha$ -FLUORO- $\beta$ -KETOESTERS Alagappan Thenappan and Donald J. Burton Dept. of Chemistry, The University of Iowa, Iowa City, IA 52242, USA

Acylation of fluorocarboethoxymethylene tri-n-butylphosphorane followed by hydrolysis under mild basic conditions provides the title compounds in good yields.

 $R_3P=CFC(0)OEt$ R = n-Bu, EtO 1) RC(0)C1 -----> 2) NaHCO<sub>3</sub> (aq)

RC(O)CFHCOOEt

(38-77%)

SYNTHESIS AND REACTIVITY OF 6-(FLUOROMETHYL)-INDOLE AND 6-(DIFLUOROMETHYL)INDOLE

Tetrahedron Lett. 30,6117(1989)

Elisa M. Woolridge and Steven E. Rokita\*, Department of Chemistry, SUNY at Stony Brook, Stony Brook, NY 11794-3400

A MECHANISTIC STUDY OF THE FK-506 TRICARBONYL SYSTEM REARRANGEMENT: SYNTHESIS OF C.9 LABELED FK-506

D. Askin\*, R.A. Reamer, Daisy Joe, R.P. Volante and I. Shinkai

Department of Process Research, Merck Sharp & Dohme Research Laboratories P.O. Box 2000, Rahway, New Jersey 07065 Me Me OH OH OH OH OH

Tetrahedron Lett.30,6121(1989)

Hydroxide mediated benzilic acid rearrangement of a C.9- C labeled FK-506 derivative gave 97% rearrangement thru a C.8+C.10 acyl shift mechanism.

Tetrahedron Lett.30,6125(1989)

CHIRAL HANDLE-INDUCED DIASTEREOSELECTIVITY IN AN ORGANIC PHOTOREARRANGEMENT: SOLUTION VERSUS SOLID STATE RESULTS Jianxin Chen, Miguel Garcia-Garibay and John R. Scheffer\*

Department of Chemistry, University of British Columbia, Vancouver, Canada, V6T 1Y6

The extent of asymmetric induction in the di- $\pi$ -methane photorearrangement of some substituted dibenzobarrelenes is assessed as a function of the structure and location of the chiral handle as well as the solid state versus solution nature of the reaction medium,

# FREE RADICAL RING-EXPANSION LEADING TO NOVEL SIX- AND SEVEN-MEMBERED HETEROCYCLES

Paul Dowd\* and Soo-Chang Choi

Department of Chemistry, University of Pittsburgh, Pittsburgh, PA 15260

Heterocyclic  $\beta$ -keto esters are readily expanded to the next higher ring size by free radical rearrangement of the phenylselenomethyl derivative.

Tetrahedron Lett.30,6133(1989)

Tetrahedron Lett.30,6135(1989)

Tetrahedron Lett.30,6129(1989)

## DESILYLATION OF $\alpha$ -TRIMETHYLSILYL NITRAMINES:

THE FIRST NITRAMINE α-ANION
C. Peter Lillya\* and Thomas P. Sassi

Department of Chemistry, University of Massachusetts, Amherst, MA 01003

Treatment of  $\alpha$ -trimethylsilyl nitramine 3 with fluoride ion generates the nitramine  $\alpha$ -anion which is trapped in situ by various electrophiles (H2O, D2O, or CH3CHO).

TRANSFORMATION OF A MONOVINYLPORPHYRIN TO BENZO-PORPHYRINS VIA DIELS-ALDER ADDUCTS

Paul Yon-Hin, Tilak P. Wijesekera, and David Dolphin\*

Department of Chemistry, University of British Columbia, 2036 Main Mall, Vancouver, British Columbia, Canada V6T 1Y6

A  $\beta$ -unsubstituted- $\beta'$ -vinylporphyrin [A] reacts with excess acetylenedicarboxylate ester to give monobenzoporphyrins [B] in high yield.

6100

## SILYL NITRONATES IN CARBOHYDRATE CHEMISTRY. CHAIN-EXTENSION REACTIONS

Tetrahedron Lett.30,6139(1989)

O.R. Martin\*, F.E. Khamis, H.A. El-Shenawy, and S.P. Rao,

Department of Chemistry, S.U.N.Y.-University Center, Binghamton, NY 13901, U.S.A.

Chain-extension of aldehydo-sugars to higher nitro sugars is achieved under extremely mild and specific conditions using Seebach's silyl nitronate nitroaldol methodology, e.g.:

Tetrahedron Lett.30,6143(1989)

## SYNTHESIS AND REACTIVITY OF NITRO SUGAR-DERIVED SILYL NITRONATES

O.R. Martin\*, F.E. Khamis, and S.P. Rao, Department of Chemistry, S.U.N.Y.-University Center, Binghamton, NY 13901, U.S.A.

The generation of nitro sugar-derived silyl nitronates (e.g., 1 and 2), their reactivity in F<sup>-</sup>-catalyzed nitroaldol reactions and the oxidative cleavage of 1 to an aldehydo-sugar are described.

#### N,N-BIS (TRIMETHYLSILYL) YNAMINES

Tetrahedron Lett.30,6147(1989)

Reinhard H. Weigmann and Ernst-Ulrich Würthwein\* Org.-Chem. Institut, Universität Münster, D-4400 Münster, FRG

$$R-C \equiv C-Li + -\sqrt{\sum_{i=0}^{N} -0 - \bar{N}} < \frac{Si(CH_3)_3}{Si(CH_3)_3} - R-C \equiv C-\bar{N} < \frac{Si(CH_3)_3}{Si(CH_3)_3}$$

$$\frac{2}{\sum_{i=0}^{N} -1} \frac{1a-d}{\sum_{i=0}^{N} -1} \frac{1a-d}{\sum_{i=0}$$

Tetrahedron Lett.30,6151(1989)

A VERSATILE RHODIUM CATALYST FOR ACETALIZATION REACTIONS UNDER MILD CONDITIONS.

J. Ott<sup>a</sup>, G.M. Ramos Tombo<sup>b</sup>, B. Schmid<sup>a</sup>, L.M. Venanzi<sup>\*a</sup>, G Wang<sup>a</sup> and T. R. Ward<sup>a</sup>

Laboratorium für Anerganische Chemie, ETH-Zentrum, CH-8092 Zürich

<sup>b</sup>Agricultural Division, Ciba-Geigy AG, CH-4002 Basel.

PRT, 8 hours 92% yield, diastereomerically pure (proven by HNMR)

# <sup>13</sup>C Spin - Echo NMR Spectroscopy with Gated <sup>6</sup>Li Decoupling: Spectral Editing for Simple Alkyl - and Aryllithium Compounds - Scope and Limitations

Oswald Eppers and Harald Günther\*
University of Siegen, FB 8, OC II, 5900 Siegen, Germany

J-modulation of  $^{13}$ C NMR signals by  $^{1}$ J( $^{13}$ C,  $^{6}$ Li) has been achieved with the simple spin-echo sequence (1) with  $^{13}$ C observation,  $^{6}$ Li gated decoupling,  $^{1}$ H broadband decoupling and a delay of  $\tau = 1/2^{1}$ J( $^{13}$ C,  $^{6}$ Li). The method was used successfully to characterize the multiplicity of NMR signals of lithiated carbons in phenyl- and n-butyllithium.

Tetrahedron Lett.30,6155(1989)

Tetrahedron Lett.30,6159(1989)

Tetrahedron Lett.30,6161(1989)

#### PHOTOISOMERIZATION OF BENTAZONE

Klaus Hustert and Mohammed Mansour

GSF - Institut für Ökologische Chemie Schulstraße 10 D-8050 Freising-Attaching

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## Radical Cations of 1,2,4,5-Tetrakis(dimethylamino)benzene

and 2,3,6,7-Tetrakis(dimethylamino)naphthalene: an ESR and ENDOR Study

Karin Elbl-Weiser, Franz A. Neugebauer, and Heinz A. Staab

Abteilung Organische Chemic, Max-Planck-Institut

für medizinische Forschung, Jahnstr. 29,

D-6900 Heidelberg, FRG

Tetrahedron Lett.30,6165(1989)

EFFICIENT SYNTHESIS OF 1,2-seco AND 1,2-seco 2-nor PYRIMIDINE AND PÜRINE NUCLEOSIDES.

M. AZYMAH, C. CHAVIS, M. LUCAS and J.-L. IMBACH\*
Laboratoire de Chimie Bio-Organique associé au
CNRS, Université de Montpellier I,
34060 Montpellier-Cédex 1, France.

The regiospecific synthesis of N-9 purine and N-1 pyrimidine acyclic nucleosides is described under solid PTC conditions with 76-87% yields from acetoxymethyl ether (acyclic sugar analogues).

SYNTHESIS OF POLYIMIDAZOLES AS BIOMIMETIC LIGANDS FOR METALLOPROTEIN ACTIVE SITE MODELING.

Tetrahedron Lett. 30,6169(1989)

E. M U L L I E Z -Laboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques, URA 400, Université René Descartes, 45 rue des Saints Pères, 75270 Paris Cédex 06, France.





Imidazole-containing ligands for metalloprotein active site modeling.

O-N, S-N AND N-N EXCHANGE REACTIONS AT OLEFINIC CARBON ATOMS: FACILE SYNTHETIC METHOD FOR

B-TRIFLUOROACETYLVINYLAMINES

Masaru Hojo\*, Ryōichi Masuda, Etsuji Okada,

Syūhei Sakaguchi, Hitoshi Narumiya and Katsushi Morimoto

Department of Industrial Chemistry, Faculty of Engineering,

Kobe University, Kobe 657, Japan

 $\beta\text{-Trifluoroacetylvinyl}$  ethers 1 and sulfides 2 react with various amines to give  $\beta\text{-}\tilde{\text{trifluoroacetylvinyl-}}$  amines 3. This O-N and S-N exchange reaction can be extended to N-N exchange reaction.

$$R^{1}Y$$

$$R^{2}C = CHCOCF_{3} \xrightarrow{R^{3}R^{4}NH} R^{3}R^{4}N$$

$$R^{2}C = CHCOCF_{3} \xrightarrow{r.t./MeCN} R^{2}C = CHCOCF_{3}$$

Tetrahedron Lett.30,6177(1989)

Tetrahedron Lett.30,6181(1989)

Tetrahedron Lett.30,6173(1989)

STEREOCHEMISTRY OF N-METHYLBENZANILIDE AND BENZANILIDE

Akiko Itai, Yoshiharu Toriumi, Nobuo Tomioka, Hiroyuki Kagechika, Isao Azumaya and Koichi Shudo, Faculty of Pharmaceutical Sciences, University of Tokyo, Hongo, Tokyo 113, Japan

The structure of N-methylbenzanilide was elucidated by X-ray analysis and examination of <sup>1</sup>H- and <sup>13</sup>C-nmr spectra. The stereochemistry of the amide bond was prove

stereochemistry of the amide bond was proved to be <u>cis</u> in the crystal and in solution, whereas that of benzanilide is <u>trans</u>.

o be cis in the milide is trans.

AN EPISULFONIUM ION MEDIATED RING EXPANSION OF 1-ALKENYLCYCLOALKANOLS.

Sunggak Kim and Jung Ho Park

Department of Chemistry, Korea Advanced Institute of Science and Technology, Seoul 130-012, Korea

Synthetic Study toward Vincomycins. Synthesis of C-Aryl Glycoside Sector via Cp2HfCl2-AgClO4-Promoted Tactics Tetrahedron Lett.30,6185(1989)

Takashi Matsumoto, Miyoko Katsuki, Hideki Jona, and Keisuke Suzuki\* Department of Chemistry, Keio University, Yokohama 223, Japan

$$\begin{array}{c} \text{MeO OMe} \\ \text{OH OMe} \end{array} \begin{array}{c} \text{Me} \\ \text{BzO} \\ \text{DH OMe} \end{array} \begin{array}{c} \text{Me} \\ \text{BzO} \\ \text{DH OMe} \\ \end{array} \begin{array}{c} \text{MeO OMe} \\ \text{BzO} \\ \text{OH OMe} \\ \end{array} \begin{array}{c} \text{MeO OMe} \\ \text{BzO} \\ \text{OH OMe} \\ \end{array}$$

Tetrahedron Lett.30,6189(1989)

LIPASE-CATALYZED ASYMMETRIC SYNTHESIS OF CHIRAL 1.3-PROPANEDIOLS AND ITS APPLICATION TO THE PREPARATION OF OPTICALLY PURE BUILDING BLOCK FOR RENIN INHIBITORS.

Keiichiro Tsuji, Yoshiyasu Terao, and Kazuo Achiwa\* School of Pharmaceutical Sciences, University of Shizuoka, 395 Yada, 422 Shizuoka, Japan

$$R \xrightarrow{OH} \xrightarrow{CH_2 = CHOAC} R \xrightarrow{CH_2 = PhCH_2} \xrightarrow{CH_2 = PhC$$

#### NOVEL PHOTOCYCLOADDITION OF 2-NAPHTHOLS TO ETHYLENE IN THE PRESENCE OF LEWIS ACID

Tetrahedron Lett.30,6193(1989)

Masaki Ue, Masahiko Kinugawa, Kiyomi Kakiuchi\*, Yoshito Tobe, and Yoshinobu Odaira Department of Applied Fine Chemistry, Faculty of Engineering, Osaka University, Suita, Osaka 565, Japan

The photoreaction of 2-naphthols 1a-e with ethylene in the presence of aluminum halide gave the [2+2] cycloadducts 3a-e in good yields.

a: R=H, b: R=OH, c: R=OMe, d: R=Br, e: R=CO<sub>2</sub>Me

THE PREPARATION AND REACTIVITY OF BIS(BROMOMAGNESIO)BIS-(TRIMETHYLSILYL)METHANE

Tetrahedron Lett.30,6195(1989)

M. Hogenbirk, N.J.A. van Eikema Hommes, G. Schat, O.S. Akkerman, F. Bickelhaupt, G.W. Klumpp Scheikundig Laboratorium, Vrije Universiteit, De Boelelaan 1083, NL-1081 HV Amsterdam, The Netherlands

The di-Grignard compound 1 was prepared by:  
1) 
$$(Me_3Si)_2CBr_2 \xrightarrow{Mg/Et_2O} (Me_3Si)_2C(MgBr)_2$$
 (1)

2) 
$$(Me_3Si)_2CCl_2 = \frac{LiDBB / MgBr_2}{THF_1 - 90^{\circ}C}$$
 1 +  $(Me_3Si)_2C(Li)MgBr$ 

The reactivity of 1 towards Me<sub>3</sub>GeCl and Me<sub>3</sub>SnCl is remarkably low; the reduced nucleophilicity must be caused by polysubstitition with electropositive elements (Mg,Si) and by steric hindrance.

Tetrahedron Lett.30,6199(1989)

MAXONINE, A NOVEL ALKALOID FROM SIMIRA MAXONII Carlos P. Hasbun, Minor Calderon, Oscar Castro, Eszter Gács-Baitz, Giuliano Delle Monache, and Franco Delle Monache

Depto de Quimica, Universidad Nacional, Heredia, Costa Rica
A novel alkaloid, maxonine (1), with an indolepyrido-naphthyridine nucleus, has been isolated from
Simira maxonii. Its structure was established on the basis
of 2D NMR spectral data. Compound 1 showed an unexpected
bathochromic shift in the UV spectrum with HCl.

Tetrahedron Lett. 30,6203(1989)

TWO NOVEL 1,4 -DIHYDRONAPHTHALENE TYPE COMPOUNDS FROM CASSIA SEMICORDATA

G. Delle Monache, B. Botta, M.A. De Moraes e Souza, J.F. De Mello, and E. Gács-Baitz Centro Chimica dei Recettori, Largo F. Vito 1, 00168 Roma

The structures of compounds 1 and 2, isolated from Cassia semicordata, were determined by

2D NMR and mass spectral data.

Tetrahedron Lett. 30,6207 (1989)

'PREFERENTIAL SPONTANEOUS RESOLUTION' OF p-ANISYL X-METHYLBENZYL KETONE. Sosale Chandrasekhar\*, Mukkamala Ravindranath, Department of Organic Chemistry, Indian Institute of Science, Bangalore 560 012, India.

The titled compound may be obtained in optically-active form merely by crystallisation in the presence of DBU as catalyst.

Tetrahedron Lett.<u>30</u>,6209(1989)

SURFACTANT CONTROL OF THE ORTHO/PARA RATIO IN THE BROMINATION OF ANILINES Giorgio Cerichelli\*, Luciana Luchetti, Giovanna Mancini Centro CNR di Studio sui Meccanismi di Reazione c/o Dip. di Chimica Universita' "La Sapienza" P.le Aldo Moro 2, 00185 Roma, Italy

Tetrahedron Lett.30,6211(1989)

# THE IDENTIFICATION OF A CARBON LINKED OLIGOMER IN HEMATOPORPHYRIN DERIVATIVE AND PHOTOFRIN II

Christopher J. Byrne and A. David Ward\*
Department of Organic Chemistry, The University of Adelaide,
G.P.O. Box 498, Adelaide, South Australia, 5001.

The presence of carbon linked oligomeric porphyrins in hematoporphyrin derivative and Photofrin II has been established. A dimer derived from this material has been isolated and characterized by nmr spectroscopy.

Tetrahedron Lett.30,6215(1989)

# (+)-DECUMBENSINE AND (+)-EPI-X-DECUMBENSINE ARE NOT X-HYDROXYBENZYLTETRAHYDROISOQUINOLINES

Maria D.Rozwadowska\*, Dorota Matecka and Danuta Brózda Faculty of Chemistry, Adam Mickiewicz University, Grunwaldzka 6, 60–780 Poznań, Poland

The synthesized diastereomeric  $\alpha$ -hydroxybenzyltetrahydroiso-quinolines are not identical with the alkaloids: (+)-decumbensine and (+)-epi- $\alpha$ -decumbensine.

Tetrahedron Lett.30,6219(1989)

DACTYLOMELOL, A NEW CLASS OF DITERPENE FROM THE SEA HARE APLYSIA DACTYLOMELA.

Dulce M. Estrada, José L. Ravelo, Catalina Ruiz-Pérez and Julio D. Martín. Centro de Productos Naturales Orgánicos Antonio González, Universidad de La Laguna-C.S.I.C., Carretera de La Esperanza 2, 38206 La Laguna, Tenerife, Spain. Xavier Solans. Departamento de Cristalografía, Mineralogía y Depósitos Minerales, Universidad de Barcelona, 08028 Barcelona. Spain.

Tetrahedron Lett.30,6221(1989)

REACTION OF PYRROLO[2,1-c][1,4]BENZODIAZEPINE-2,5,11-TRIONES WITH PHOSPHORUS OXYCHLORIDE Ahmed Kamal and David E. Thurston\* Division of Medicinal Chemistry, School of Pharmacy, Portsmouth Polytechnic, Hants PO1 2DZ, UK

Formation of 5,10,11,11a-tetrahydro-2-chloro-1H-pyrrolo[2,1-c][1,4]benzodiazepine-5,11-diones (1).

Tetrahedron Lett. 30,6223 (1989)

### A GENERAL SYNTHETIC APPROACH TO AMARYLLIDACEAE ALKALOIDS

C.W. Bird, A.L. Brown, C.C. Chan and A. Lewis Department of Chemistry, King's College, The Strand, London WC2R 2LS, U.K.

Tetrahedron Lett.30,6227(1989)

### ASYMMETRIC DIELS-ALDER REACTIONS WITH CHIRAL ALKOXYCYCLOHEXADIENES

C.W. Bird and A. Lewis

Department of Chemistry, King's College, The Strand, London WC2R 2LS, U.K.

R is a chiral group

FMOC-POLYAMIDE SOLID PHASE SYNTHESIS OF AN O-PHOSPHOTYROSINE-CONTAINING TRIDECAPEPTIDE

Tetrahedron Lett. 30,6229 (1989

E. A. Kitas, J. W. Perich, J. D. Wade, R. B. Johns\* and G. W. Tregear\*
Dept. of Organic Chemistry, University of Melbourne, Parkville 3052, Victoria, Aust.\*
Howard Florey Institute of Experimental Physiology and Medicine,
University of Melbourne, Parkville 3052, Victoria, Australia.

Derivative (4) was used in the solid phase synthesis of the  $\underline{P}$ Tyr tridecapeptide with the BOP/HOBt method for peptide bond formation. The protected peptide-resin was treated with 1 M TMSBr-thioanisole/TFA to give the  $\underline{P}$ Tyr peptide (5) in 70 % yield.

Fmoc-Tyr(PO<sub>3</sub>Me<sub>2</sub>)-OH (4) H-Arg-Leu-Ile-Glu-Asp-Asn-Glu-PTyr-Thr-Ala-Arg-Gln-Gly-OH (5)

ENANTIOSELECTIVE OXIDATION OF SULPHIDES BY DIOXIRANES IN THE PRESENCE OF BOVINE SERUM ALBUMIN.

Tetrahedron Lett.30,6233(1989)

Stefano Colonna and Nicoletta Gaggero

Dipartimento Chimica Organica Industriale dell'Università, Via Golgi 19, 20133 Milano-Italy.

E.E. up to 89% are reached in the sulphoxidation reaction by dioxiranes with bovine serum ambumin as chiral auxiliary.

Tetrahedron Lett.30,6237(1989)

# Intramolecular Trapping of a Phosphazide by an Imine: Formation of 2,3-Diamino-2H-indazole Derivatives from o-Azidobenzaldimines and Tertiary Phosphines

Pedro Molina\*, Antonio Arques and Maria Victoria Vinader

Departamento de Quimica Organica, Facultad de Ciencias, Universidad de Murcia, Campus de Espinardo, 30071 Murcia, Spain.

Treatment of 2-azidobenzaldimines with tertiary phosphines leads to iminophosphoranes derived from 2-amino-3-alkyl-(aryl)amino indazoles.

$$N_{3}$$
 +  $R^{2}-P_{1}$   $R^{4}$   $N_{3}$   $N_{3}$   $N_{4}$   $N_{5}$   $N_{5}$   $N_{7}$   $N_{7$ 

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