

COVER PICTURE

The cover picture shows a very old yew from Central Sardinia as background for the structural framework of 14-nor-A-*secotaxoids* which can be synthesized from constituents of this tree family. These compounds are interesting simplified analogues of paclitaxel, a powerful anti-tumor agent. The article by G. Appendino et al. on p. 277ff. highlights their structure-activity relationships.



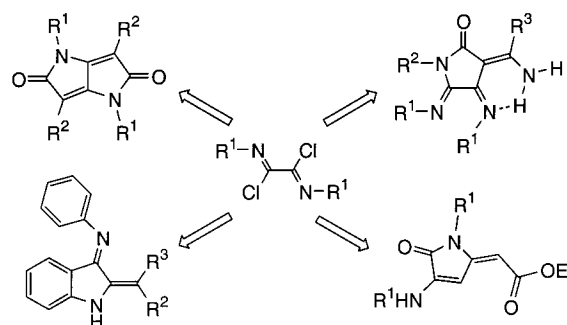
MICROREVIEW

Contents

221 P. Langer,* M. Döring

Efficient Synthesis of Nitrogen Heterocycles by Cyclization of Bis(nucleophiles) with Oxal-diimidoyl Dichlorides

Keywords: Anions / Cyclizations / Domino reactions / Nitrogen heterocycles / Regioselectivity



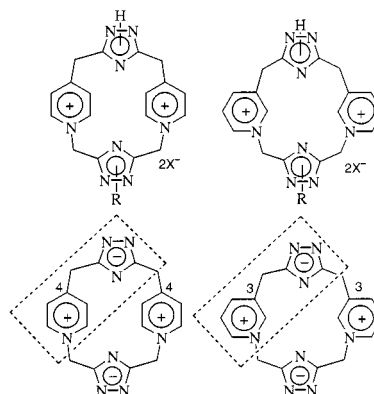
FULL PAPERS

- 235** E. Alcalde,* N. Mesquida, M. Gisbert,
L. Pérez-García



Application of the Kauffmann Arenio-Analogy Principle – Stability towards Oxidation of the Methylene Spacers in Quadrupolar [14]Heterophane Frameworks Incorporating 4- or 3-Pyridiniummethyl-1,2,4-triazolate Betaine Units

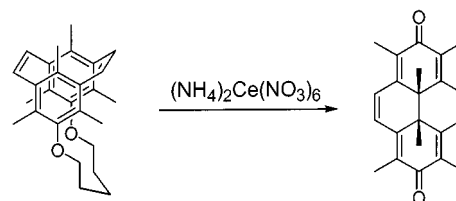
Keywords: Autoxidation / Betaines / Cyclophanes / Donor–acceptor systems



- 243** G. J. Bodwell,* J. N. Bridson, S.-L. Chen,
J. Li

cis-1,3,6,8,10b,10c-Hexamethyl-10b,10c-dihydropyrene-2,7-dione: The Use of a Tether to Control the Stereochemistry

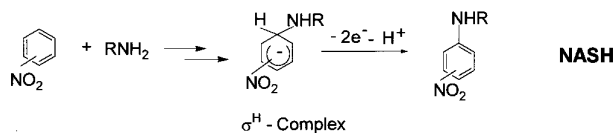
Keywords: Cyclophanes / Small ring systems / Quinones / Bowl-shaped molecules



- 251** I. Gallardo,* G. Guirado, J. Marquet

Electrochemical Synthesis of Nitroanilines

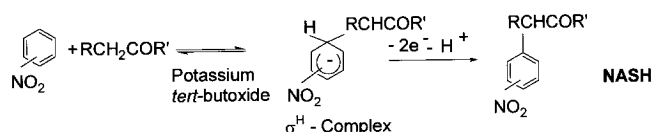
Keywords: Nucleophilic substitution / Amino derivatives / Electrochemistry / σ^H complexes



- 261** I. Gallardo,* G. Guirado, J. Marquet

Electrochemical Synthesis of Nitroaromatic Ketones

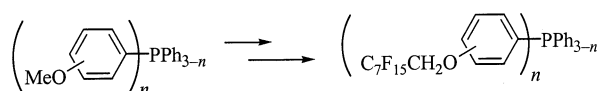
Keywords: Nucleophilic substitution / Electrochemistry / Ketones / Oxidations



- 269** D. Sinou,* D. Maillard, G. Pozzi

Synthesis of a Family of Triarylphosphanes with Fluorous Phase Affinity

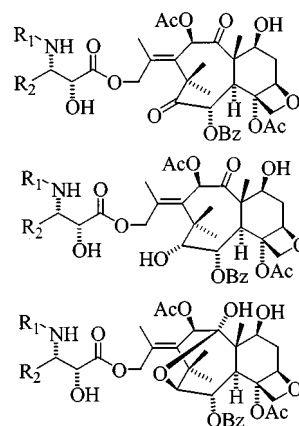
Keywords: Phosphanes / Phosphane oxides / Fluorine / Fluorinated ligands / Partition coefficients / Oxidation



277 **G. Appendino,* E. Belloro, E. Del Grosso,
A. Minassi, E. Bombardelli**

Synthesis and Evaluation of 14-Nor-A-*seco*-taxoids

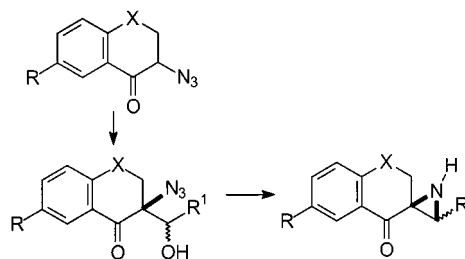
Keywords: Antitumor agents / Natural products /
Structure–activity relationships /
Terpenoids



285 **T. Patonay,* É. Juhász-Tóth, A. Bényei**

Base-Induced Coupling of α -Azido Ketones with Aldehydes – An Easy and Efficient Route to Trifunctionalized Synthons 2-Azido-3-hydroxy Ketones, 2-Acylaziridines, and 2-Acylspiroaziridines

Keywords: Aldol reactions / Azides / Aziridines /
Ketones / Spiro compounds

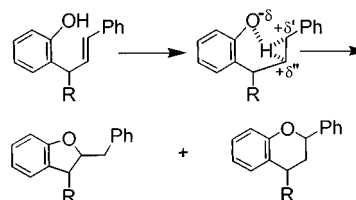


297 **M. C. Jiménez, M. A. Miranda,*
R. Tormos, S. Gil**



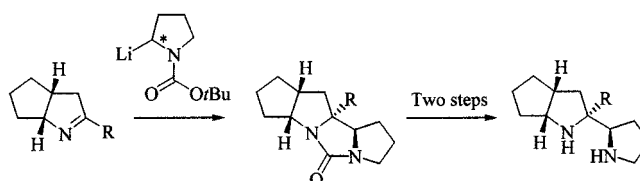
Photocyclization of a Bichromophoric Phenol/Olefin System Substituted at the Methylene Spacer – Zwitterions versus H-Bridged Intermediates in the Excited State Proton Transfer

Keywords: Cyclizations / Hydrogen transfer / Phenols /
Photochemistry / Zwitterions



301 **N. Graf v. Keyserlingk, J. Martens***

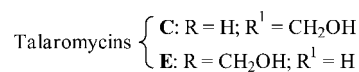
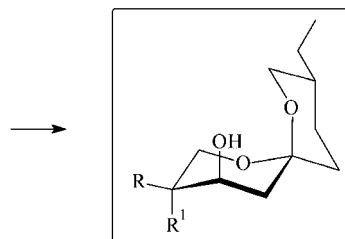
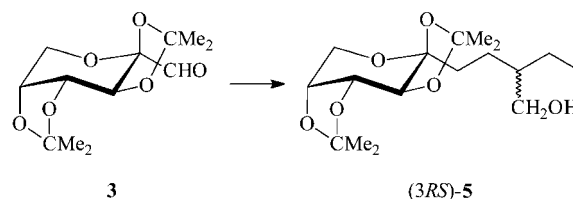
Highly Diastereoselective Addition of *N*-Boc-pyrrolidin-2-yllithium to Optically Active Ketimines – Synthesis of Enantiomerically Pure 1,3-Imidazolidin-2-ones and Diamines



Keywords: Schiff bases / Nitrogen heterocycles /
Diastereoselectivity / C–C coupling /
Ligand design

309 I. Izquierdo,* M. T. Plaza, M. Rodríguez,
J. A. Tamayo

Hexulose Derivatives and Lipase-Mediated Diastereomeric Resolution in the Enantio-specific Total Synthesis of (–)-Talaromycins C and E

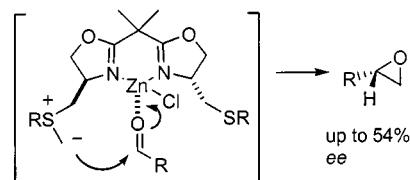
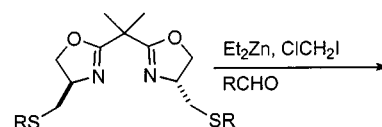


Keywords: Asymmetric synthesis / Enzyme catalysis / D-Fructose / Lipases / Spiroketal / (–)-Talaromycins C and E

319 V. K. Aggarwal,* M. P. Coogan,
R. A. Stenson, R. V. H. Jones,
R. Fieldhouse, J. Blacker



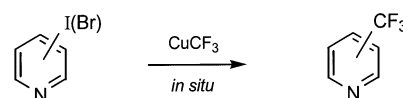
Developments in the Simmons–Smith-Mediated Epoxidation Reaction



Keywords: Aziridines / Bisoxazolines / Carbenoids / Sulfur / Terminal epoxides / Ylides / Zinc

327 F. Cottet, M. Schlosser*

Trifluoromethyl-Substituted Pyridines Through Displacement of Iodine by in situ Generated (Trifluoromethyl)copper

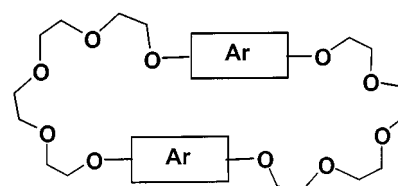


Keywords: Nitrogen heterocycles / Copper / Fluorine

331 E. Perez-Inestrosa,* J.-P. Desvergne,*
H. Bouas-Laurent, J.-C. Rayez,
M.-T. Rayez, M. Cotrait, P. Marsau

Barium Cation Complexation by Flexible Mono- and Ditopic Receptors, Studied by UV Absorption and Fluorescence Spectroscopy

Keywords: Barium / Cooperativity effect / Crown compounds / Luminescence / Transitory photodecomplexation



Ar = *para*-phenylene, *para*-xylylene, *para*-diphenylene....

Binding ability for Ba⁺⁺ in the ground state and in the fluorescent state

345 G. J. Kemperman, R. de Gelder,
F. J. Dommerholt, A. J. H. Klunder,
B. Zwanenburg*

NC(=O)[C@H](c1ccccc1)NC2=NC(=O)C3=C(C(=O)O)SCC23

Keywords: Antibiotics / Clathrates / Inclusion compounds / Selective inclusion

351 I. Lázár,* A. Egri, R. Király, Z. Baranyai,
T. Iványi, E. Brücher

$n = 0, 1$

 $X =$

 $Y = X, \text{ Tosyl}$

Keywords: Complexation / Conformation analysis / Lactones / Macrocyclic ligands / NMR spectroscopy

**361 H.-P. Wu, R. Aumann,* R. Fröhlich,
E. Wegelius**

$$\text{1} + \text{2a} \xrightarrow{20\text{ }^{\circ}\text{C}} \text{3}$$

$$\text{M} = \text{Cr, W}; \text{a} = \text{CH}_2, \text{CH}_2\text{CH}_2, \text{CH}_2\text{CH}_2\text{CH}_2$$

M = Cr, W; a = CH₂, CH₂CH₂, CH₂CH₂CH₂

**369 D. Schley, A. Radspieler, G. Christoph,
J. Liebscher***

Chemical reaction scheme showing the synthesis of compounds **4** and **5** from compound **2**.

Compound **2** (4-(tricyanomethyl)anisole derivative) reacts to form compound **4** (tricyanomethyl-substituted benzofuran derivative).

Compound **4** then undergoes further reaction to form compound **5** (tricyanomethyl-substituted benzofuran derivative).

Keywords: Arenes / Benzofuranones / Carbonyl ligands / Chromium / Coupling reactions / 2,2-Diarylacetaes

375 J.-C. Berthet,* M. Nierlich, M. Ephritikhine

$$\text{Pyridinium}^+ + 2 \text{ } t\text{BuNC} \longrightarrow \text{N-}t\text{Bu-1,2-dihydropyridine}^+$$

Keywords: Cycloadditions / Isocyanides / Nitrogen heterocycles