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COVER PICTURE

The cover picture shows a representative collection of some of the more potent, naturally occurring epothilones and their synthetic analogues. Several of these are currently in clinical trials. Colored ribbons are routinely used to bring attention to a particular disease and the ongoing search for a cure, especially cancer. The ribbon shown is white, depicting no particular cancer, but rather cancers in general. Details are presented in the Microreview by E. B. Watkins, A. G. Chittiboyina, and M. A. Avery on p. 4071 ff.



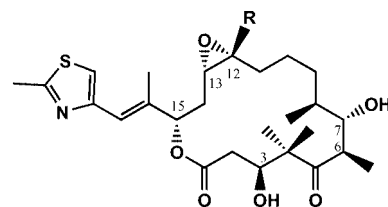
MICROREVIEW

Contents

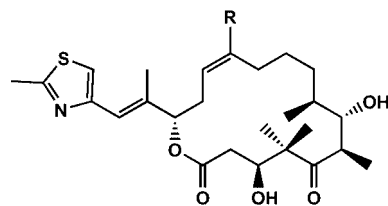
4071 E. B. Watkins, A. G. Chittiboyina,
 M. A. Avery*

Recent Developments in the Syntheses of the
 Epothilones and Related Analogues

Keywords: Epothilones / Macrocycles / Anti-cancer
 agents / Total synthesis / Microtubule
 stabilization



1: R = H, Epothilone A
 2: R = Me, Epothilone B



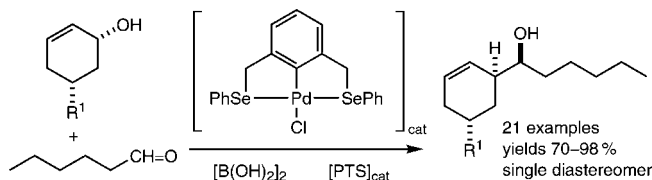
3: R = H, Epothilone C
 4: R = Me, Epothilone D

SHORT COMMUNICATIONS

4085 N. Selander, S. Sebelius, C. Estay,
K. J. Szabó*



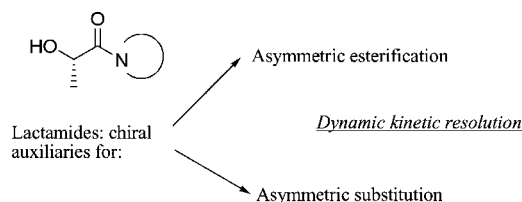
Highly Selective and Robust Palladium-Catalyzed Carbon–Carbon Coupling between Allyl Alcohols and Aldehydes via Transient Allylboronic Acids



Keywords: Aldehydes / Allylation / Boron / Electrophilic substitution / Palladium

4088 A. Ammazalorso, R. Amoroso,* G. Bettoni,
B. De Filippis, M. Fantacuzzi,
L. Giampietro, C. Maccallini, M. L. Tricca

Asymmetric Synthesis of Arylpropionic Acids and Aryloxy Acids by Using Lactamides as Chiral Auxiliaries

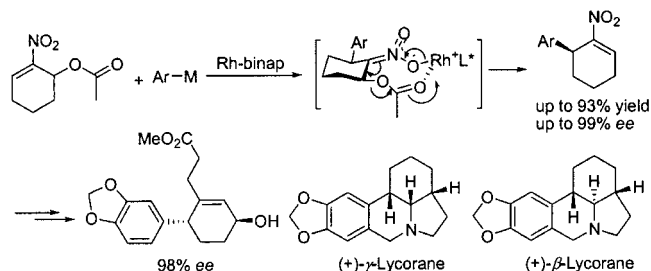


Keywords: Aryloxy acids / Arylpropionic acids / Dynamic kinetic resolution / Chiral auxiliaries / Asymmetric synthesis

FULL PAPERS

4093 L. Dong, Y.-J. Xu, W.-C. Yuan, X. Cui,
L.-F. Cun, L.-Z. Gong*

Rhodium-Catalyzed Asymmetric Nitroallylation of Arylmetallics with Cyclic Nitroallyl Acetates and Applications in Organic Synthesis

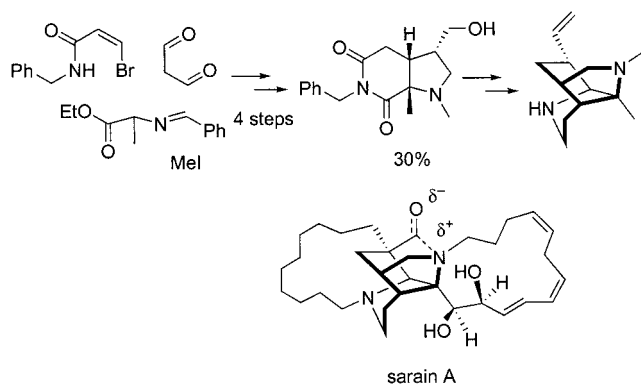


Keywords: Asymmetric catalysis / Nitroallylation / Rhodium complexes / (+)-β-Lycorane / (+)-γ-Lycorane / Chiral nitroalkenes

4106 C. S. Ge, S. Hourcade, A. Ferdenzi,
A. Chiaroni, S. Mons,* B. Delphech,
C. Marazano*



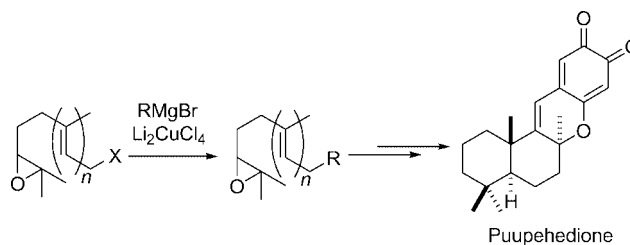
A Biogenetically Based Strategy Towards the Polycyclic Core Skeleton of Sarain A



Keywords: Biomimetic synthesis / Alkaloids / Multi-component synthesis / Reduction / Pyrrolidines / Sarain A

4115 A. Gansäuer,* J. Justicia, A. Rosales,
D. Worgull, B. Rinker, J. M. Cuerva,*
J. E. Oltra*

Transition-Metal-Catalyzed Allylic Substitution and Titanocene-Catalyzed Epoxypolyene Cyclization as a Powerful Tool for the Preparation of Terpenoids

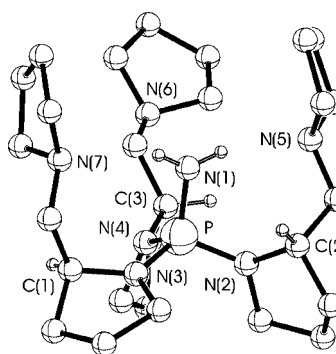


Keywords: Copper / Cyclization / Epoxides / Radicals / Titanium

4128 U. Köhn, M. Schulz, A. Schramm,
W. Günther, H. Görls, S. Schenk,
E. Anders*



A New Class of Chiral Phosphazene Bases: Synthesis and Characterization

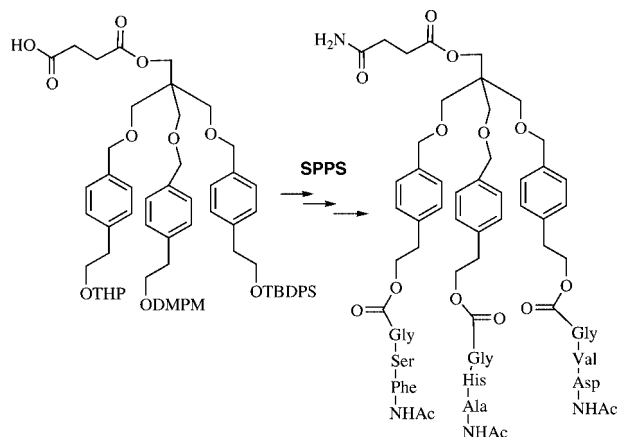


Keywords: Amine / Chirality / Phosphazene

4135 A. Gea, N. Farcy, N. Roqué i Rossell,
J. C. Martins, P. J. De Clercq, A. Madder*



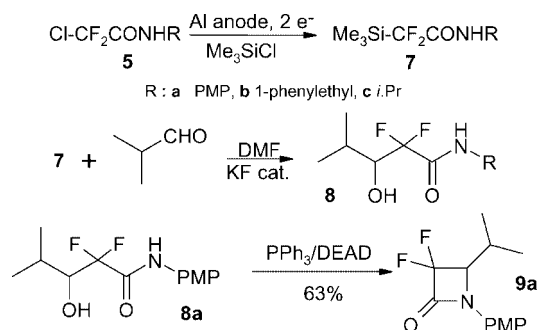
Solid-Supported Synthesis of Highly Functionalized Tripodal Peptides with Flexible but Pre-organized Geometry: Towards Potential Serine Protease Mimics



Keywords: Serine protease / Enzyme models / Tripodal scaffold / Protecting groups / Orthogonal deprotection

4147 M. Bordeau,* F. Frébault, M. Gobet,
J.-P. Picard*

Ethyl Difluoro(trimethylsilyl)acetate and Difluoro(trimethylsilyl)acetamides – Precursors of 3,3-Difluoroazetidiones



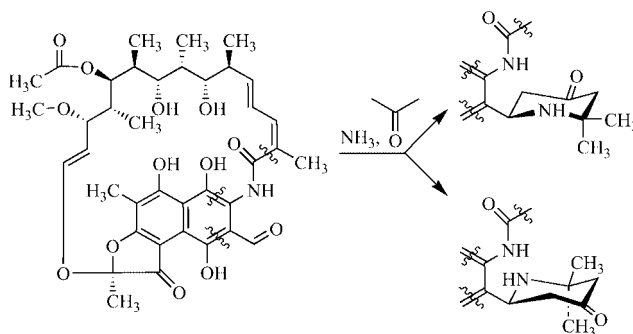
Keywords: Fluorine / Silicon / Amino acids / Amides / Lactams / Electrosynthesis

- 4155** K. Bujnowski, L. Synoradzki,* T. Zevaco,
E. Dinjus, E. Augustynowicz-Kopeć,
Z. Zwolska



Study of the Reaction of 3-Formylrifamycin SV
with Gaseous Ammonia and Acetone

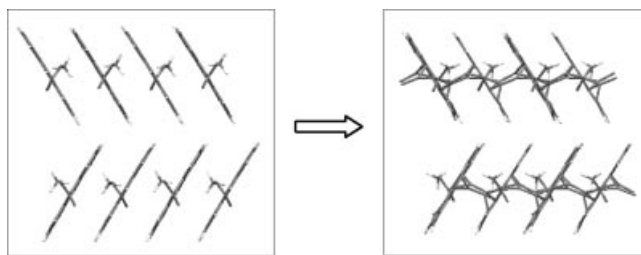
Keywords: Antibiotics / Cyclization / Hydrogen
bonds / Nitrogen heterocycles / NMR spec-
troscopy / Tautomerism



- 4164** I. Zouev, T. Lavy, M. Kaftory*

Solid-State Photodimerization of Guest Molecu-
les in Inclusion Compounds

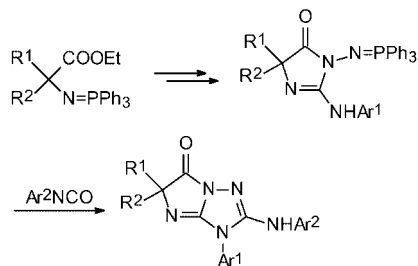
Keywords: Photochemistry / Solid state / Structure
elucidation / Host–guest systems



- 4170** J.-Z. Yuan, B.-Q. Fu, M.-W. Ding,*
G.-F. Yang*

New Facile Synthesis of 3,5-Dihydro-6*H*-
imidazo[1,2-*b*]-1,2,4-triazol-6-ones by an Imino-
phosphorane-Mediated Annulation

Keywords: 3,5-Dihydro-6*H*-imidazo[1,2-*b*]-1,2,4-tri-
azol-6-one / Iminophosphorane / Carbodi-
imide / Abnormal aza-Wittig reaction /
Synthetic methods / Annulation

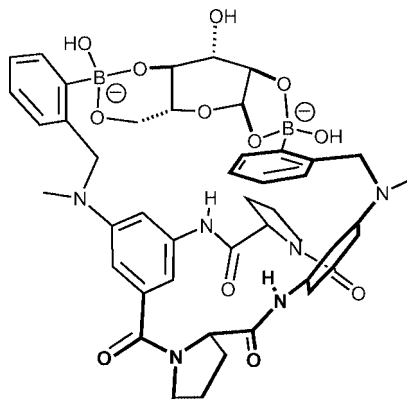


- 4177** G. Heinrichs, M. Schellenträger, S. Kubik*



An Enantioselective Fluorescence Sensor for
Glucose Based on a Cyclic Tetrapeptide Contain-
ing Two Boronic Acid Binding Sites

Keywords: Fluorescence / Molecular recognition /
Peptides / Receptors / Sensors

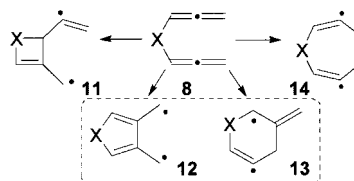


- 4187** B. H. Bui, P. R. Schreiner*



Thermal Rearrangements of Heteroatom-Bridg-
ed Diallenes

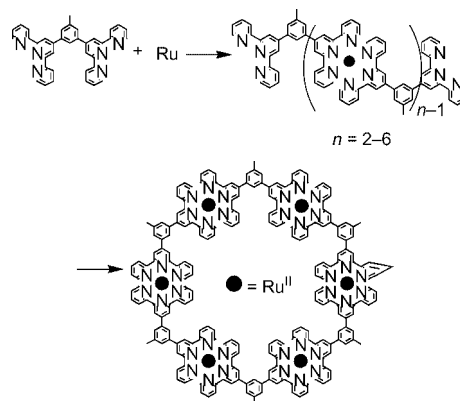
Keywords: Computational chemistry / Diallenes /
Heterocycles / Radicals / Rearrangement



- 4193** T. J. Cho, C. N. Moorefield, S.-H. Hwang, P. Wang, L. A. Godínez, E. Bustos, G. R. Newkome*

Formation of a Series of [$\{\text{Methylphenylene-bis(terpyridine)}\}_n\text{Ru}^{\text{II}}_{n-1}\text{]}$ ($n = 2-6$) Oligomers in a Single-Pot Reaction

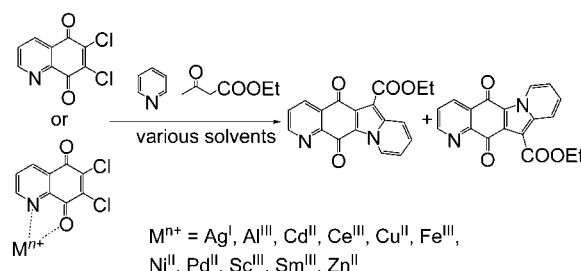
Keywords: Bis(terpyridine) / Ruthenium complexes / Metallo-oligomers



- 4201** A. Defant, G. Guella, I. Mancini*

Regioselectivity in the Multi-Component Synthesis of Indolizinoquinoline-5,12-dione Derivatives

Keywords: Cyclisation / Nitrogen heterocycles / N,O ligands / Regioselectivity / Solvent effects

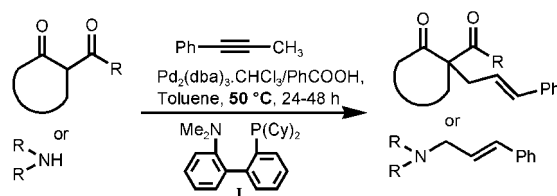


- 4211** N. T. Patil, D. Song, Y. Yamamoto*



Palladium-Catalyzed Allylation of Pronucleophiles with Alkynes at 50 °C – Remarkable Effect of 2-(Dicyclohexylphosphanyl)-2'-(dimethylamino)biphenyl as Ligand

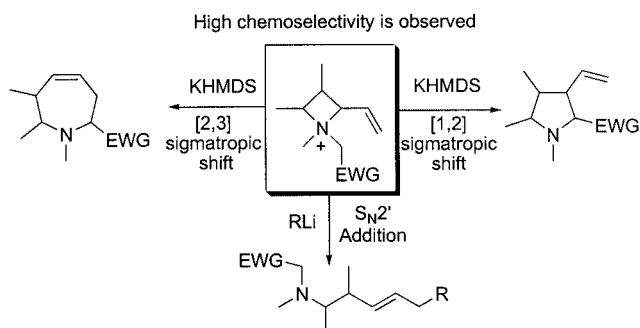
Keywords: Palladium / Alkynes / Pronucleophiles / Allylation / Biphenyl ligands / Lower temperatures



- 4214** F. Couty,* F. Durrat, G. Evano, J. Marrot

Ring Expansions of 2-Alkenylazetidinium Salts – a New Route to Pyrrolidines and Azepanes

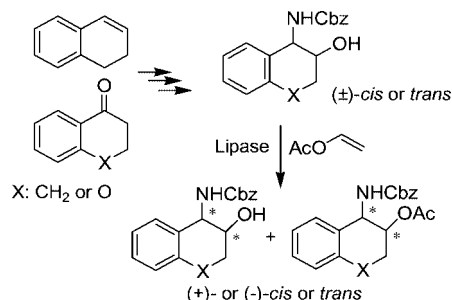
Keywords: Azetidines / Azepanes / Pyrrolidines / Sigmatropic shifts



- 4224** V. Recuero, G. de Gonzalo, R. Brieva, V. Gotor*

Chemoenzymatic Preparation of Enantiopure Isomers of 4-Aminochroman-3-ol and 1-Amino-1,2,3,4-tetrahydronaphthalen-2-ol

Keywords: Antiviral agents / Hydrolases / Enzyme catalysis / Amino alcohols

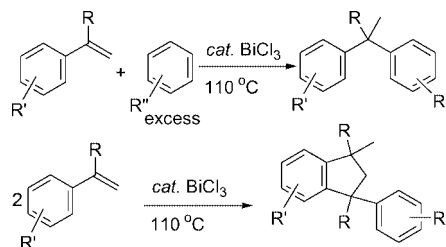


4231 H.-B. Sun, B. Li, R. Hua,* Y. Yin



An Efficient and Selective Hydroarylation of Styrenes with Electron-Rich Arenes, Catalyzed by Bismuth(III) Chloride and Affording Markovnikov Adducts

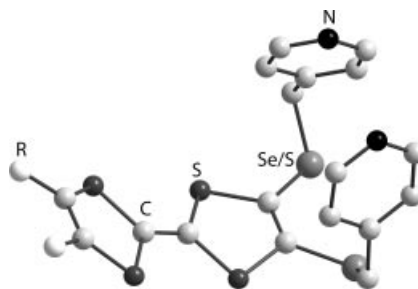
Keywords: Arenes / Bismuth trichloride / Dimerization / Hydroarylation / Markovnikov adduct



4237 N. Benbellat, Y. Le Gal, S. Golhen, A. Gouasmia, L. Ouahab,* J.-M. Fabre

Synthesis and Characterization of Novel Tetra-thiafulvalene-Type Electron Donors Bearing Two Pyridine Groups

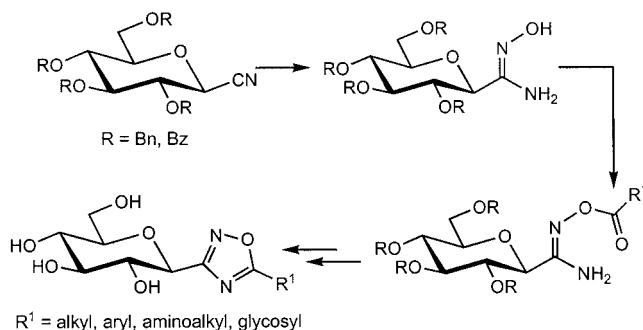
Keywords: Synthetic methods / TTF / X-ray diffraction / Cyclic voltammetry



4242 M. Bentifa, S. Vidal, B. Fenet, M. Msaddek, P. G. Goekjian, J.-P. Praly,* A. Bruny  nszki, T. Docsa, P. Gergely

In Search of Glycogen Phosphorylase Inhibitors: 5-Substituted 3-C-Glucopyranosyl-1,2,4-oxadiazoles from β -D-Glucopyranosyl Cyanides upon Cyclization of *O*-Acylamidoxime Intermediates

Keywords: Cyanides / C-Glycosides / Heterocycles / 1,2,4-Oxadiazoles / Glycogen phosphorylase (GP)

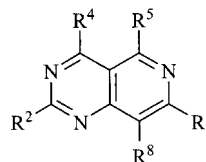


4257 M.-Y. Jang, S. De Jonghe, L.-J. Gao, J. Rozenski, P. Herdewijn*



Development of Synthetic Strategies for the Construction of Pyrido[4,3-*d*]pyrimidine Libraries – the Discovery of a New Class of PDE-4 Inhibitors

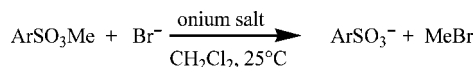
Keywords: Medicinal chemistry / Nitrogen heterocycles / Combinatorial chemistry



4270 L. Brinchi, R. Germani, G. Savelli,* N. Spreti

S_N2 Displacement by Bromide Ions in Dichloromethane – The Role of Reverse Micelles

Keywords: Nucleophilic substitution / Surfactants / Dichloromethane / Reverse micelles

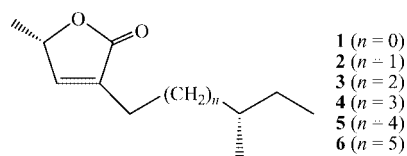


4277

T. Řezanka,* K. Sigler

Volatile Lactones – (5*S,S*)-5-Methyl-3-(methyl-alkyl)furan-2(5*H*)-ones – Identified in the Submerged Cultivation of *Streptomyces Avermitilis*

Keywords: *Streptomyces avermitilis* / Submerged cultivation / Lactones / Structure elucidation

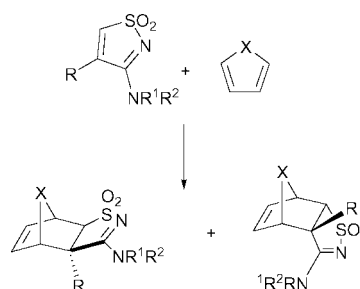


4285

F. Clerici,* A. Casoni, M. L. Gelmi,
D. Nava, S. Pellegrino, A. Sala

3-Amino-Substituted Isothiazole *S,S*-Dioxides as Dienophiles in Diels–Alder Cycloaddition Reactions with Cyclic, Acyclic and Heterocyclic Dienes

Keywords: Isothiazoles / Cycloaddition / Lewis acids / Microwaves



CORRECTION

4291

A. T. Carmona, P. Fialová, V. Křen,
R. Ettrich, L. Martínková,
A. J. Moreno-Vargas, C. González,
I. Robina*

Cyanodeoxy-Glycosyl Derivatives as Substrates for Enzymatic Reactions

Keywords: Sugar nitriles / Azido-tetrazole tautomerism / Glycosidase / Inhibitors / Enzymes / Carbohydrates



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