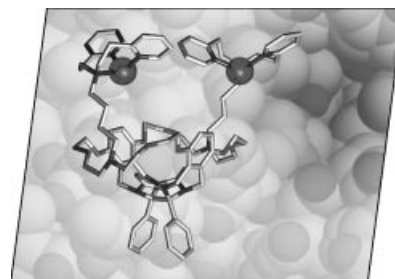


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COVER PICTURE

The cover picture shows the superposition of a synthetic model of the dinuclear copper enzyme catechol oxidase over the surface and active site of this enzyme. The model is the bis- Cu^{I} complex of a ligand-appended diphenylglycoluril basket. This combines a reactive dinuclear copper site (the Cu^{I} ions held by the ligands) for the binding and activation of molecular oxygen with a binding site (the diphenylglycoluril clip) for aromatic substrates to be oxidized. Details on this are discussed in the article by M. C. Feiters et al. on p. 2281 ff.



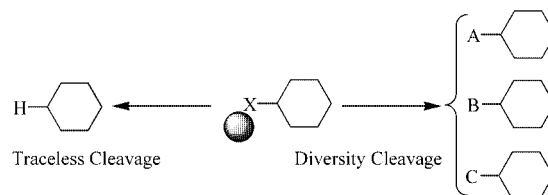
MICROREVIEWS

Contents

2251 P. J. H. Scott,* P. G. Steel

Diversity Linker Units for Solid-Phase Organic Synthesis

Keywords: Solid-phase organic synthesis / Multi-functional linker units / Combinatorial chemistry / Diversity-oriented synthesis



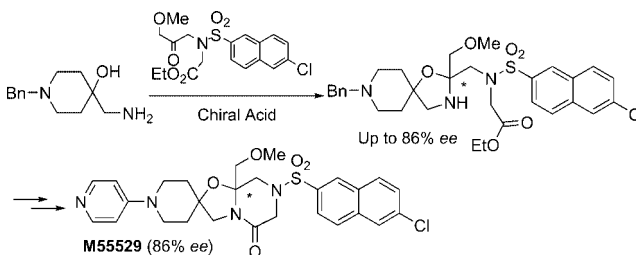
SHORT COMMUNICATIONS

- 2269** F. Saitoh,* H. Nishida, T. Mukaihira,
K. Aikawa, K. Mikami*



Asymmetric Synthesis of Antithrombotic Agent M55529: The First Enantioselective Cyclic *N,O*-Acetal Formation

Keywords: Antithrombotic agent / M55529 / Cyclic *N,O*-acetal / Enantioselective acetal formation

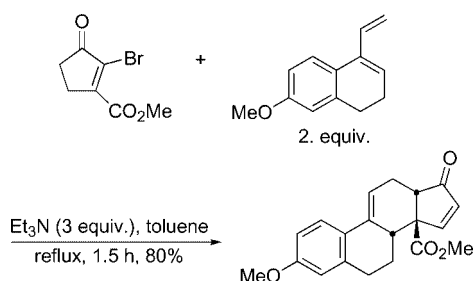


- 2273** M. Harmata,* M. G. Gomes



Intermolecular [4+2] Cycloadditions of a Reactive Cyclopentadienone

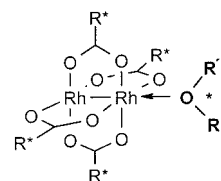
Keywords: Cyclopentadienone / Cycloaddition / Deantiaromatization / Diels–Alder reactions



- 2278** E. Díaz Gómez, D. Albert, H. Duddeck,*
S. I. Kozhushkov, A. de Meijere

Enantiodifferentiation of Aliphatic Ethers by the Dirhodium Method

Keywords: Chiral resolution / Chiral auxiliaries / Rhodium / NMR spectroscopy / Aliphatic ethers

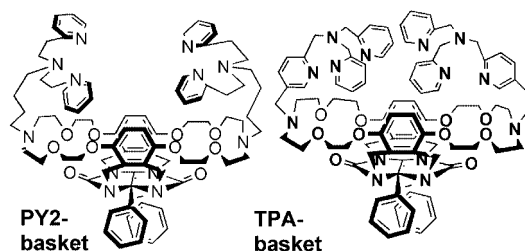


FULL PAPERS

- 2281** V. S. I. Sprakel, J. A. A. W. Elemans,
M. C. Feiters,* B. Lucchese, K. D. Karlin,
R. J. M. Nolte

Synthesis and Characterization of PY2- and TPA-Appended Diphenylglycoluril Receptors and Their Bis-Cu^I Complexes

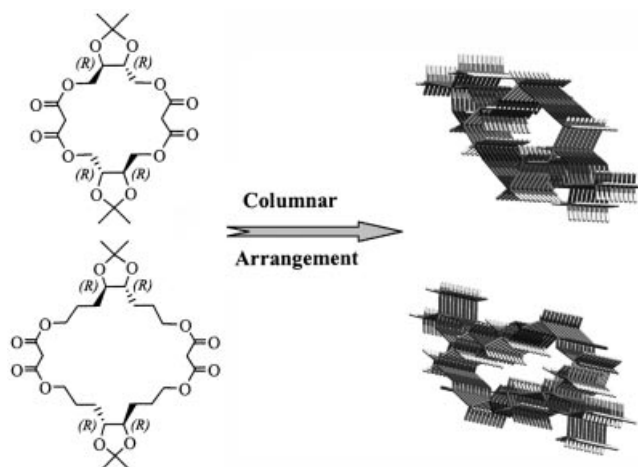
Keywords: Host–guest systems / Bioinorganic chemistry / Copper / N ligands / NMR spectroscopy / High-pressure chemistry



- 2296** N. Chronakis, T. Brandmüller, C. Kovacs,
U. Reuther, W. Donaubauer, F. Hampel,
F. Fischer, F. Diederich,* A. Hirsch*

Macrocyclic Cyclo[n]malonates – Synthetic Aspects and Observation of Columnar Arrangements by X-ray Crystallography

Keywords: Cyclo[n]malonates / Cyclisation / Columnar stacking / Intermolecular interactions / Crystallography

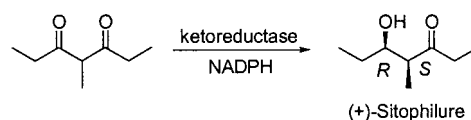


- 2309** D. Kalaitzakis, J. D. Rozzell,
S. Kambourakis, I. Smonou*



A Two-Step Chemoenzymatic Synthesis of the Natural Pheromone (+)-Sitophilure Utilizing Isolated, NADPH-Dependent Ketoreductases

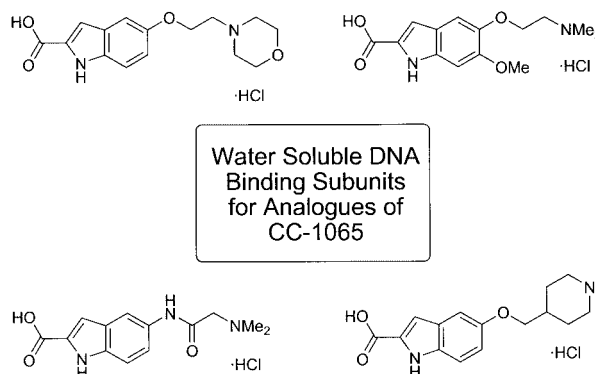
Keywords: Ketoreductase / Diastereoselective / Enantioselective / Reduction / 1,3-Diketones / β -Hydroxy ketones / Enzyme catalysis / Pheromones / Sitophilure



- 2314** L. F. Tietze,* F. Major

Synthesis of New Water-Soluble DNA-Binding Subunits for Analogues of the Cytotoxic Antibiotic CC-1065 and Their Prodrugs

Keywords: ADEPT / Antitumor agents / Carboxylic acids / Nitrogen heterocycles

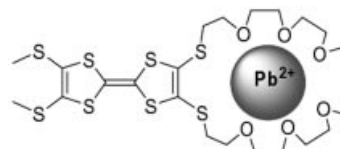


- 2322** J. Lyskawa, F. Le Derf, E. Levillain,
M. Mazari, M. Sallé*



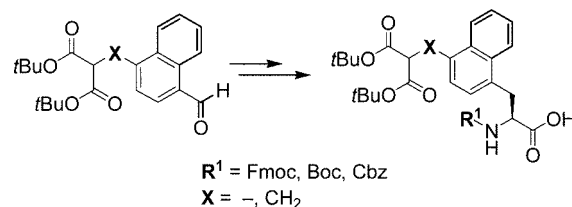
Tetrathiafulvalene-Based Podands for Pb^{2+} Recognition

Keywords: Tetrathiafulvalene / Host–guest systems / Cyclic voltammetry / Receptors / Redox-responsive ligands



2329 H. Chen, J.-P. Luzy, N. Gresh, C. Garbay

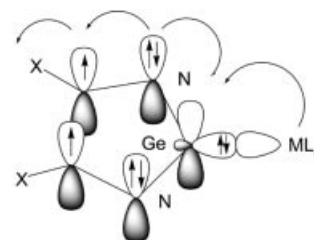
An Efficient and Enantioselective Synthesis of Suitably Protected β -[1-(4-Malonyl)naphthyl]-L-alanine and β -[1-(4-Malonylmethyl)naphthyl]-L-alanine: Novel Fluorescent and Non-Hydrolysable Phosphotyrosine Mimetics



Keywords: Amino acids / Bioorganic chemistry / Enantioselectivity / Fluorescence

2336 O. Kühl,* K. Lifson, W. Langel

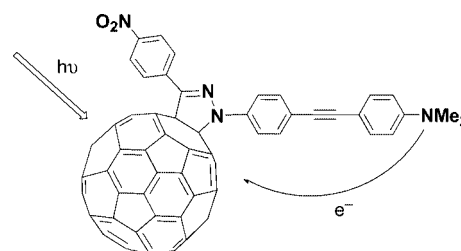
Calculation of the Ligating Strength of N-Heterocyclic Germynes – Extending the π -Acceptor Range



Keywords: Carbene homologues / Electron-deficient compounds / Electronic structure / Germanium / Heterocycles / Ligand effects / Ligand design / Main group elements / Substituent effects

2344 A. Gouloumis, F. Oswald, M. E. El-Khouly, F. Langa,* Y. Araki, O. Ito*

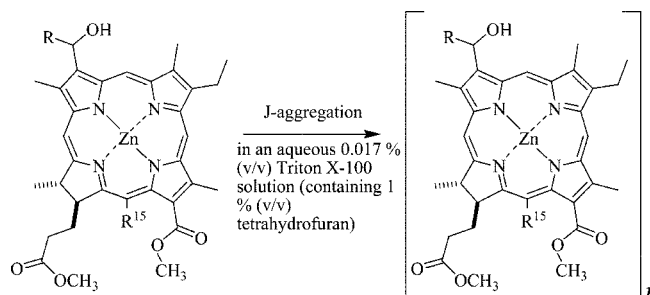
Synthesis and Photophysical Properties of a Pyrazolino[60]fullerene with Dimethylaniline Connected by an Acetylene Linkage



Keywords: Fullerenes / Electron transfer / Microwave irradiation / Photophysical properties

2352 M. Kunieda, H. Tamiaki*

Self-Aggregation of Synthetic Zinc Chlorins Possessing a 13-Ester-Carbonyl Group as Chlorosomal Chlorophyll Models



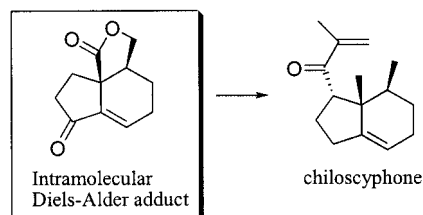
Keywords: Circular dichroism / Photosynthesis / Porphyrinoids / Self-assembly / UV/Vis spectroscopy

1: R = H, R^{15} = H
 2: R = CH₃, R^{15} = H
 3: R = H, R^{15} = CH₂COOCH₃

2362 J. Shiina, R. Obata, H. Tomoda,
S. Nishiyama*

Synthesis of Chiloscypheones and the Biological Activities of Their Synthetic Intermediates Against Methicillin-Resistant *Staphylococcus aureus* (MRSA)

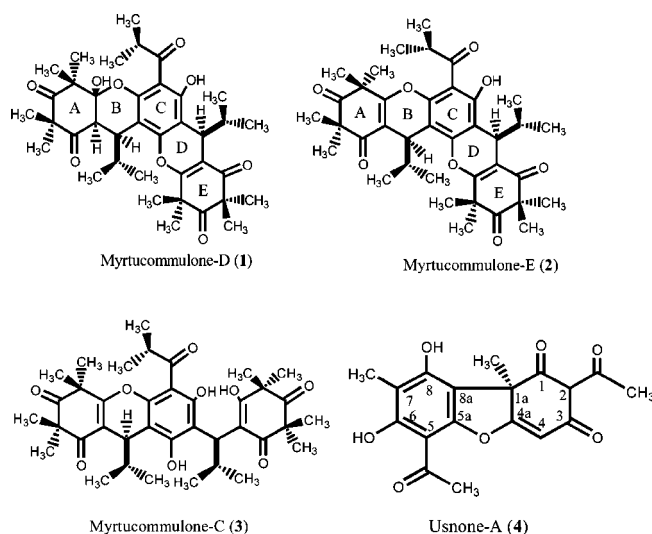
Keywords: Antimicrobial activity / Bioorganic chemistry / Cyclization / Medicinal chemistry / MRSA / Natural products



2371 F. Shaheen,* M. Ahmad, S. N. Khan,
S. S. Hussain, S. Anjum, B. Tashkhodjaev,
K. Turgunov, M. N. Sultankhodzaev,
M. I. Choudhary, Atta-ur-Rahman

New α -Glucosidase Inhibitors and Antibacterial Compounds from *Myrtus communis*

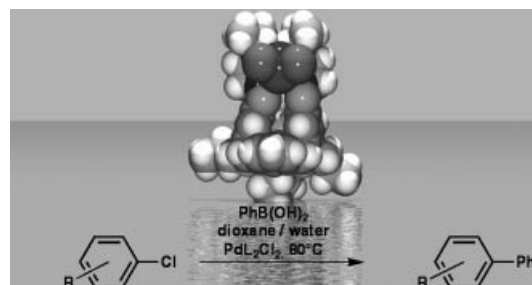
Keywords: *Myrtus communis* L. / Acylphloroglucinol / Myrtucommulone D, E and C / Antibacterial activity and α -glucosidase inhibition studies



2378 T. Brendgen, M. Frank, J. Schatz*

The Suzuki Coupling of Aryl Chlorides in Aqueous Media Catalyzed by in situ Generated Calix[4]arene-Based N-Heterocyclic Carbene Ligands

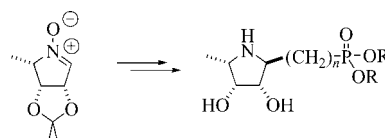
Keywords: Calixarenes / Carbene ligands / Cross-coupling / Palladium / Water chemistry



2384 C. Chevrier, D. Le Nouën, A. Defoin,*
C. Tarnus

Synthesis of Amino-L-Lyxose Phosphonates as Fucosyl-Phosphate Mimics

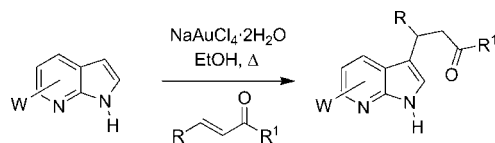
Keywords: Aminolyxose / Amino sugars / Phosphonates / Fucosidase inhibitors / Cycloaddition / Nucleophilic addition



2393 M. Alfonsi, A. Arcadi,* G. Bianchi,
F. Marinelli, A. Nardini

Gold-Catalyzed C-3-Alkylation of 7-Azaindoles
Through Michael-Type Addition to α,β -Enones

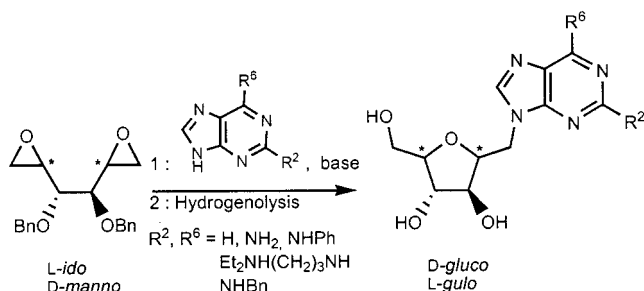
Keywords: Gold / Catalysis / 7-Azaindoles / Enones /
Conjugate addition / Alkylation



2403 P. Busca, I. McCort, T. Prangé,
Y. Le Merrer*

Synthesis of C-Nucleosidic ATP Mimics as
Potential FGFR3 Inhibitors

Keywords: Nucleosides / Tyrosine-kinase inhibitors /
Heterocycles / D-Mannitol

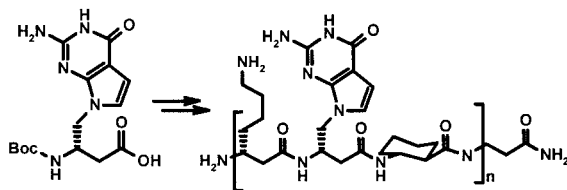


2410 P. Chakraborty, A. M. Brückner,
U. Diederichsen*



Synthesis of a 7-Deazaguanine-Functionalized
 β -Amino Acid: Improved Specificity of β -Pep-
tide Helix Organization

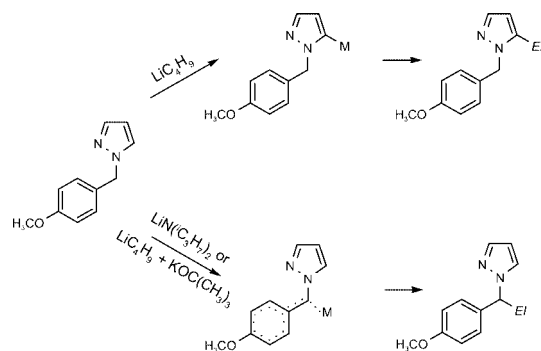
Keywords: Peptides / Carbaguanine / Base pairing /
Molecular recognition / Secondary structure



2417 L. Ondi, M. Schlosser*

Metalated 1-(*p*-Methoxybenzyl)pyrazole: A
Structural Chameleon

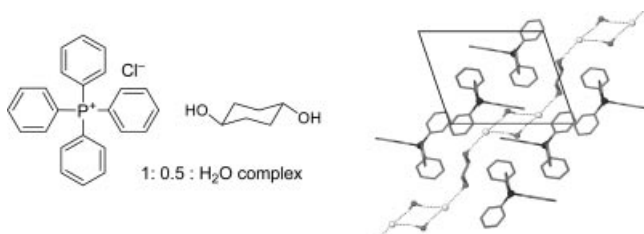
Keywords: Butyllithium / Isomerization / Lithium di-
isopropylamide / Metalation / Pyrazoles /
Regioselectivity



2423 K. Tanaka,* A. Nakashima, Y. Shimada,
J. L. Scott*

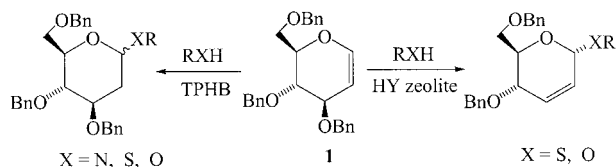
Selective Inclusion of Equatorial Isomers of
Cyclohexane-Polyols in Phosphonium Salt
Hosts

Keywords: Host–guest chemistry / Inclusion com-
plex / Supramolecular chemistry / X-ray
structure



2429 A. P. Rauter,* T. Almeida, A. I. Vicente,
V. Ribeiro, J. C. Bordado, J. P. Marques,
F. Ramôa Ribeiro, M. J. Ferreira,
C. Oliveira, M. Guisnet

Reactions of N-, S- and O-Nucleophiles with
3,4,6-Tri-*O*-benzyl-D-glucal Mediated by Tri-
phenylphosphane Hydrobromide versus Those
with HY Zeolite

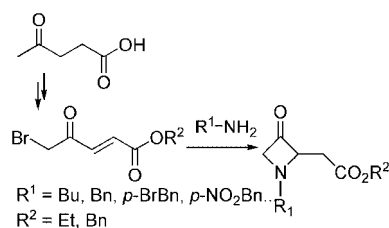


Keywords: Glycosides / Glycosylation / Nucleosides /
Rearrangement / Zeolites

2440 S. Gérard, M. Raoul, J. Sapi*

A New Approach to the Synthesis of *N*-Alkyl-
ated 2-Substituted Azetidin-3-ones

Keywords: Azetidin-3-ones / Small ring systems /
Levulinic acid / Domino nucleophilic sub-
stitution-addition



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