

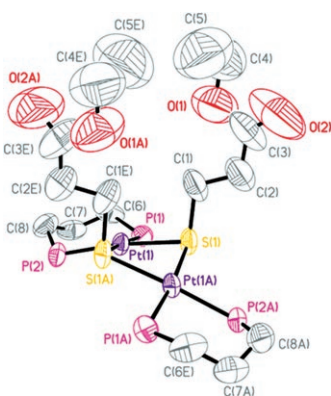
Platinum–Thiolate Complexes

S. H. Chong, D. J. Young, T. S. A. Hor*

Pressure-Assisted Hetero- and Homodialkylolation of Sulfide in $[\text{Pt}_2(\mu\text{-S})_2(\text{dppp})_2]$: One-Pot Conversion of $\{\text{Pt}_2(\mu\text{-S})_2\}$ into $\{\text{Pt}_2(\text{SR})_2\}$ and $\{\text{Pt}_2(\text{SR})(\text{SR}')\}$

Chem. Asian J.

DOI: 10.1002/asia.200700203



Cool under pressure: Elevated pressure and the use of dppp ($\text{Ph}_2\text{P}(\text{CH}_2)_3\text{PPh}_2$) to enhance the nucleophilicity of the sulfide centers in $[\text{Pt}_2(\mu\text{-SR})(\mu\text{-S})(\text{dppp})_2]^+$ lead to the successful synthesis of novel diplatinum complexes that contain hetero- and homothiolate bridges. Functional alkyls and aryls are thus converted into functional thiolates.

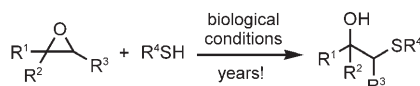
Epoxides

B. J. Albert, K. Koide*

How Rapidly Do Epoxides Nonspecifically Form Covalent Bonds with Thiols in Water?

ChemBioChem

DOI: 10.1002/cbic.200700365



Rating reaction rates. Due to some concerns about the reactivity of epoxides towards the most abundant and powerful nucleophiles, thiols, in a biological setting, we report kinetic data for the consumption of five common epoxide motifs in the presence of a thiol under biologically relevant conditions.

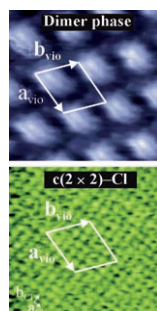
Monolayers

D. T. Pham, K. Wandelt, P. Broekmann*

2D Ordering Phenomena Under Non-Equilibrium Conditions: An In Situ STM Approach

ChemPhysChem

DOI: 10.1002/cphc.200700507



Ordering phenomena: The “reactive” adsorption and lateral ordering of redox-active dibenzyl viologens (DBV) on a chloride-modified Cu(100) electrode surface is studied. At electrode potentials where the first electron transfer step from the di-cationic to the radical mono-cationic viologen takes place, the preferred products at the surface are meta-stable viologen dimer species (see STM images).

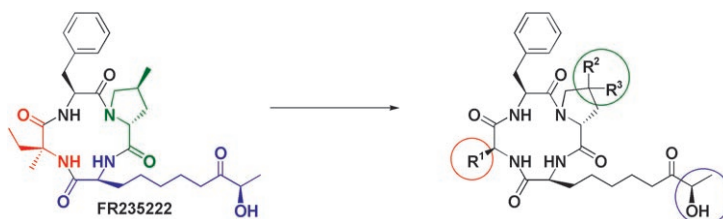
Peptide Analogues

L. Gomez-Paloma, I. Bruno, E. Cini, S. Khochbin, M. Rodriguez, M. Taddei,* S. Terracciano, K. Sadoul

Design and Synthesis of Cyclopeptide Analogues of the Potent Histone Deacetylase Inhibitor FR235222

ChemMedChem

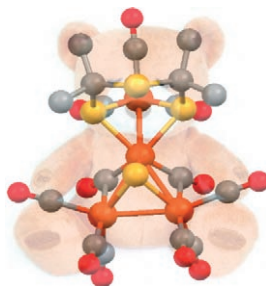
DOI: 10.1002/cmdc.200700095



FR235222, one of the most potent HDAC inhibitors, is a natural tetrapeptide formed by some not easily available amino acids. We found that it is possible to build a structurally similar tetrapep-

tide made with simpler amino acids but maintaining Ahoda (indispensable) which has the high activity of the parent natural product and shows selective inhibition of class 1 histone deacetylase.

The synthesis of novel structural models for the active site of [Fe-only] hydrogenase is described starting from 1,2,4-trithiolane and its derivatives. The products are characterised by spectroscopic methods and X-ray structure analyses. Density functional calculations are reported for a representative example of the unusual tetranuclear iron clusters formed.

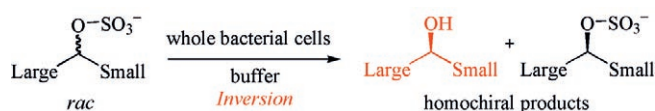


[Fe-only] Hydrogenase Models

J. Windhager, H. Görls, H. Petzold, G. Mloston, G. Linti,* W. Weigand*

Reactions of 1,2,4-Trithiolanes with Nonacarbonyldiiron:
Sulfurthiolatodiiron and -tetrairon Complexes as Mimics for the Active Site of [Fe-only] Hydrogenase

Eur. J. Inorg. Chem.
DOI: 10.1002/ejic.200700465



Highly enantioselective biohydrolysis of *rac-sec*-alkyl sulfate esters by *Pseudomonas*

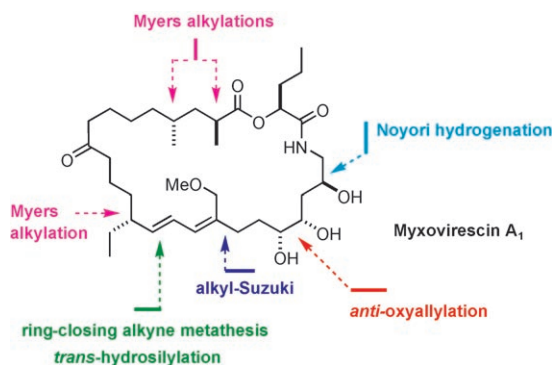
spp. proceeded with strict inversion of configuration.

Enantioselective Biohydrolysis

P. Gadler, K. Faber*

Highly Enantioselective Biohydrolysis of *sec*-Alkyl Sulfate Esters with Inversion of Configuration Catalysed by *Pseudomonas* spp.

Eur. J. Org. Chem.
DOI: 10.1002/ejoc.200700637



A convergent total synthesis of the antibiotic macrolide myxovirescin A₁ is described that is largely based on reagent- and catalyst-controlled transformations. This includes a highly regioselective

Negishi reaction of a dibromo-alkene, a palladium-catalyzed alkyl-Suzuki coupling, an exquisitely selective ring-closing alkyne metathesis, and a ruthenium-catalyzed *trans*-hydrosilylation tandem.

Natural Products

A. Fürstner,* M. Bonnekessel, J. T. Blank, K. Radkowski, G. Seidel, F. Lacombe, B. Gabor, R. Mynott

Total Synthesis of Myxovirescin A₁

Chem. Eur. J.
DOI: 10.1002/chem.200700926



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