

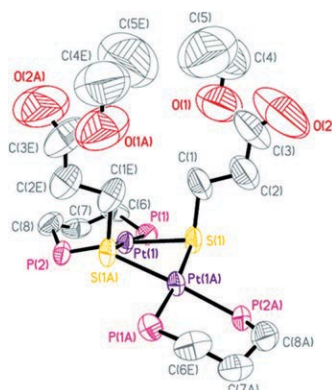
# SPOTLIGHTS ...

## Platinum–Thiolate Complexes

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

**Pressure-Assisted Hetero- and Homodialkylation 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



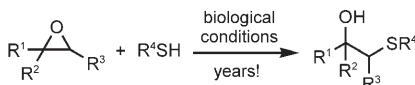
**Cool under pressure:** Elevated pressure and the use of dppp ( $\text{Ph}_2\text{P}(\text{CH}_2)_3\text{PPh}_2$ ) to enhance the nucleophilicity of the sulfide centers in  $[\text{Pt}_2(\mu\text{-SR})(\mu\text{-S})(\text{dppp})_2]^+$  lead to the successful synthesis of novel diplatinum complexes that 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



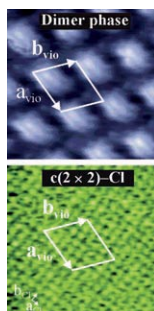
**Rating reaction rates.** Due to some concerns about the reactivity of epoxides towards the most abundant and powerful nucleophiles, thiols, in a biological setting, we report kinetic data for the consumption of five common epoxide motifs in the presence of a thiol under biologically relevant conditions.

## Monolayers

D. T. Pham, K. Wandelt,  
P. Brockmann\*

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

*ChemPhysChem*  
DOI: 10.1002/cphc.200700507



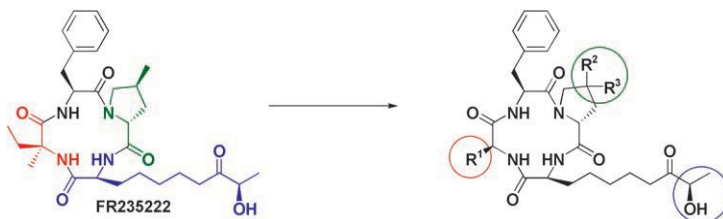
**Ordering phenomena:** The “reactive” adsorption and lateral ordering of redox-active dibenzyl viologens (DBV) on a chloride-modified Cu(100) electrode surface is studied. At electrode potentials where the first electron transfer step from the di-cationic to the radical mono-cationic viologen takes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

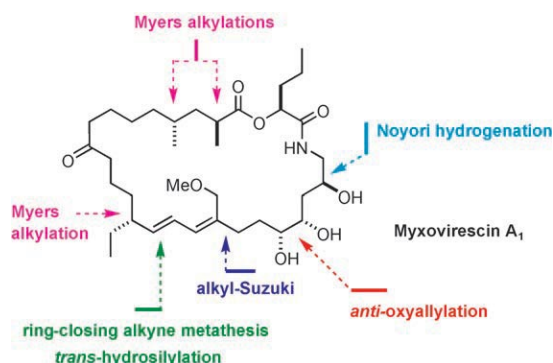


**FR235222**, one of the most potent HDAC inhibitors, is a natural tetrapeptide formed by some not easily available amino acids. We found that it is possible to build a structurally similar tetrapeptide made with simpler amino

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

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### Natural Products



**A convergent total synthesis** of the antibiotic macrolide myxovirescin A<sub>1</sub> 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.

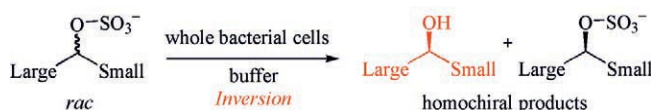
A. Fürstner,\* M. Bonnekessel, J. T. Blank, K. Radkowski, G. Seidel, F. Lacombe, B. Gabor, R. Mynott

#### Total Synthesis of Myxovirescin A<sub>1</sub>

*Chem. Eur. J.*

DOI: [10.1002/chem.200700926](https://doi.org/10.1002/chem.200700926)

### Enantioselective Biohydrolysis



Highly enantioselective biohydrolysis of *rac*-*sec*-alkyl sulfate esters by *Pseudomonas* spp. proceeded with strict inversion of configuration.

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P. Gadler, K. Faber\*

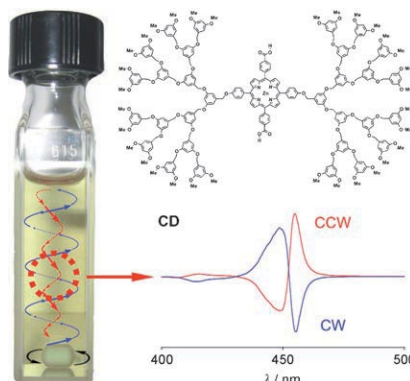
#### Highly Enantioselective Biohydrolysis of *sec*-Alkyl Sulfate Esters with Inversion of Configuration Catalysed by *Pseudomonas* spp.

*Eur. J. Org. Chem.*

DOI: [10.1002/ejoc.200700637](https://doi.org/10.1002/ejoc.200700637)

### Macroscopic Chirality

**Which way around?** J-aggregated zinc porphyrin dendrimer can be used to detect the macroscopic chirality of a vortex. The sign of the circular dichroism response changes quickly upon switching from clockwise (CW) to counterclockwise (CCW) stirring (see picture). The observed chiroptical activity most likely arises from a macroscopic helical alignment of nanofibers formed from the polymeric J-aggregate.



A. Tsuda,\* M. A. Alam, T. Harada, T. Yamaguchi, N. Ishii, T. Aida\*

#### Spectroscopic Visualization of Vortex Flows Using Dye-Containing Nanofibers

*Angew. Chem. Int. Ed.*

DOI: [10.1002/anie.200703083](https://doi.org/10.1002/anie.200703083)



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