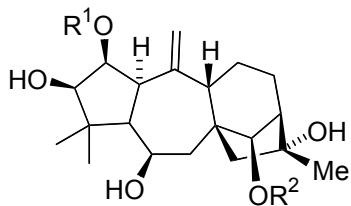


Trauner Group Meeting

Date: September 1, 2005

Speaker: Aubry Miller

• Molecule of the Week:

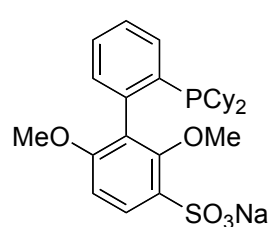


A: $R^1 = \text{Me}$ $R^2 = \text{H}$
B: $R^1 = \text{H}$ $R^2 = \text{Ac}$

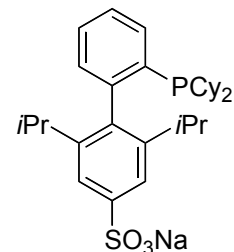
rhodomolin A and B
isolated from *Rhododendron molle*

G. Zhong et al.
J. Nat. Prod. **2005**, 68, 924-926.

• Reaction/Method of the Week:



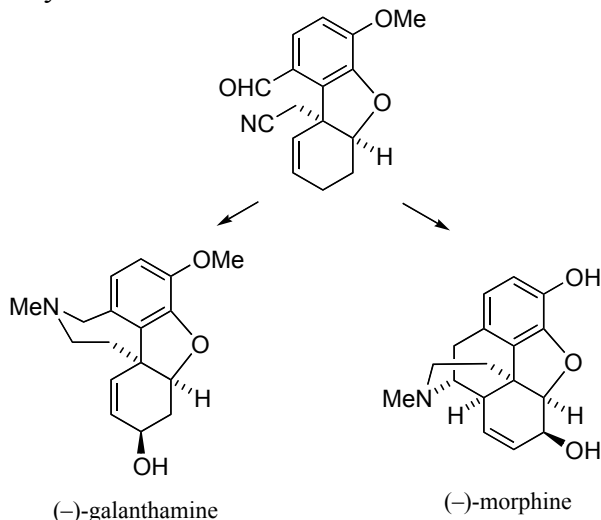
New, H₂O soluble
ligand for
Suzuki-Miyaura
couplings



New, H₂O soluble
ligand for
Sonogashira
couplings

General Catalysts for the Suzuki-Miyaura and
Sonogashira Coupling Reactions of Aryl
Chlorides and for the Coupling of Challenging
Substrate Combinations in Water
K. Anderson and S. L. Buchwald
Ang. Chem. Int. Ed. **2005**, 44, 6173-6177.

• Synthesis of the Week:



Divergent enantioselective synthesis of
(-)-galanthamine and (-)-morphine
B. M. Trost, W. Tang and F. D. Toste
J. Am. Chem. Soc. **2005** ASAP

• Problem (or Numbers) of the Week:

Cause it never hurts to review this stuff:

Bond Lengths (Å):

C-H 1.09
C-C 1.54
C=C 1.34
C≡C 1.20
C=O 1.22

Bond Dissociation Energies (kcal/mol)

H-H 103
C-H 98
C-C 81
C=C 145
C≡C 198

• Future order: Dirk, Paul, retrosynthesis