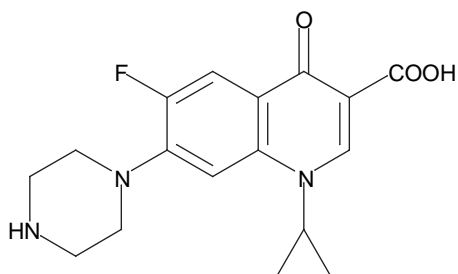


# Heathcock – Trauner Group Meeting

Date: 11/13/01

Speaker: Lorenzo Berti – High-Throughput DNA Sequencing and Diagnostics

## Molecule of The Week:

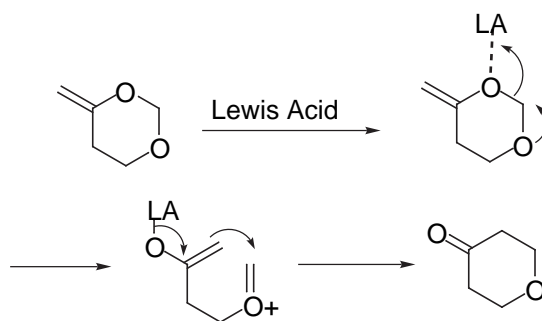


Ciprofloxacin (Cipro)

Potent antibiotic that acts by inhibiting DNA gyrase

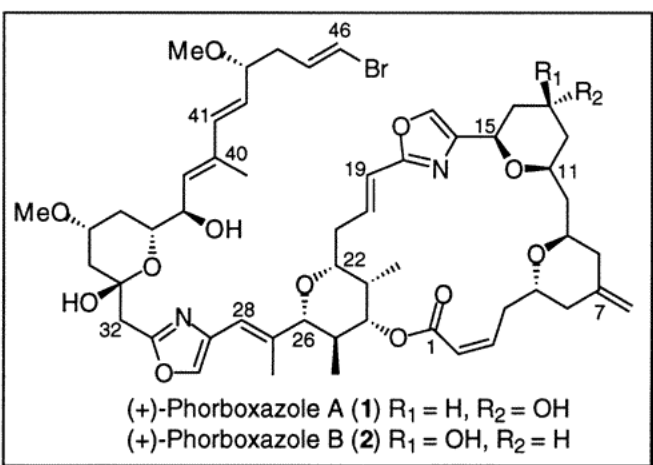
PNAS, (1985), **82**, 307-311

## Reaction of the Week



The "Petatis Rearrangement"  
*Tetrahedron Lett.*, (1996), **37**, 141

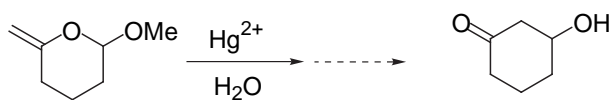
## Synthesis of the Week:



(+)-Phorboxazole A (1) R<sub>1</sub> = H, R<sub>2</sub> = OH  
(+)-Phorboxazole B (2) R<sub>1</sub> = OH, R<sub>2</sub> = H

Very potent anti cancer compound  
Active against 60 solid tumors (GI<sub>50</sub> 1.6nM)  
*JACS*, (2001), **123**, 10942

## Problem of the Week:



Propose a mechanism for the Ferrier rearrangement  
(analog to the Petatis rearrangement)  
*Chem.Rev.*, (1993), **93**, 2779