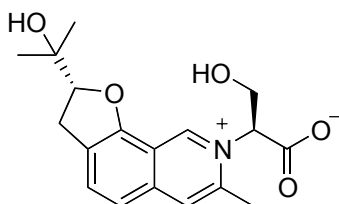


# Trauner Group Meeting

Date: 12.01.05

Speaker: Erica Wilson (on molecular recognition studies and synthetic efforts towards DNAg inhibitors)

## • Molecule of the Week:



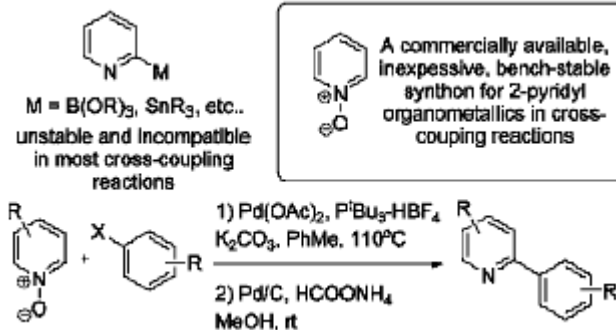
Panaefluoroline D

Fluorescent compound  
isolated from *Amygdalaria panaeola*

Kinoshita, K.; *et al.*, *J. Nat. Prod.*, **2005**, *68*, ASAP

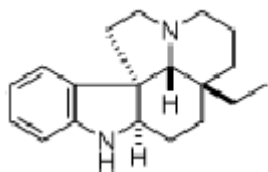
## • Reaction/Method of the Week:

Palladium-catalyzed regioselective direct arylation of pyridine N-oxides



Campeau, L.C; Rousseaux, S.; and Fagnou, K.,  
*J. Am. Chem. Soc.* **2005**, *127*, ASAP

## • Synthesis of the Week:



(+)-Aspidospermine

Iyengar, R., *et al.*, *J. Org. Chem.*, **2005**, *70*, ASAP

- deracemizing imine alkylation/Robinson annulation
- intramolecular Schmidt reaction
- Fischer indolization on a tricyclic ketone

## • Numbers of the Week:

Rate of DNA synthesis:

- prokaryotes: 1000nt/s
- eukaryotes: 50nt/s

Okazaki fragment length:

- prokaryotes: 1000-2000nt
- eukaryotes: 100-200nt

Oldest person ever to live: Jeanne Louise Calment, 122

# of times one of her DNA polymerase enzymes acted:  
122yr\*365d\*24hr\*60m\*60s\*50nt/s=192369600000

Future Order: Dirk, Jessica, Jenn, Yue