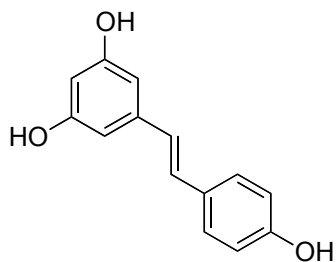


Trauner Group Meeting

Date: 08/28/03

Speaker: Chambers C. Hughes (Synthetic Studies Toward the Guanacastepenes).

• Molecule of the Week:

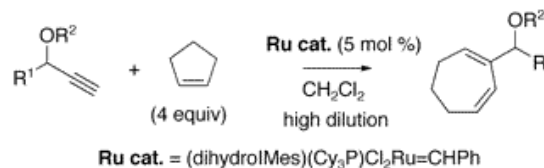


resveratrol
(*trans*-3,5,4'-trihydroxystilbene)

Recent studies have shown that resveratrol activates enzymes that slow aging, increasing the stability of DNA, hence extending lifespan by as much as 70%.

• Reaction/Method of the Week:

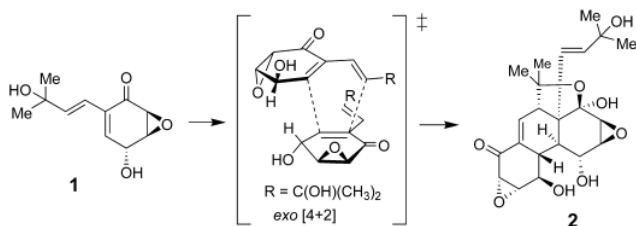
cycloheptadiene ring synthesis by tandem intermolecular enyne metathesis:



(taken directly from the pdf-file)

Kulkarni, A. A.; Diver, S. T. *Org. Lett.* ASAP

• Synthesis of the Week:



panephenanthrin

J. Porco et al., *Angew. Chem., Int. Ed.* **2003**, *42*, 3913

an *exo*-Diels-Alder cyclization

• Problem (or Numbers) of the Week:

average concentration of resveratrol in red wine: 3-4 μM

New York state red wines have higher levels of resveratrol than comparable wines from other regions of the world (NY, non-NY, CA):

pinot noir: 13.6 μM , 11 μM , 10.1 μM

cabernet: 8.3 μM , 3.7 μM , 1.7 μM

merlot: 6.5 μM , 4.7 μM , 5.3 μM

concentration of resveratrol in white wine: only 0.6 μM !!!!

• Future order: Aubry, G