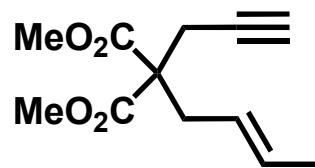
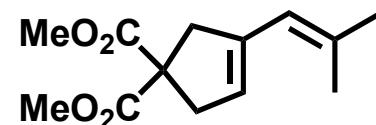
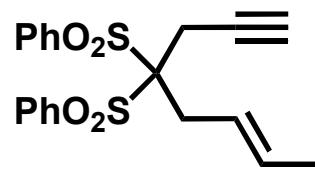
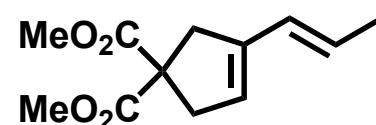


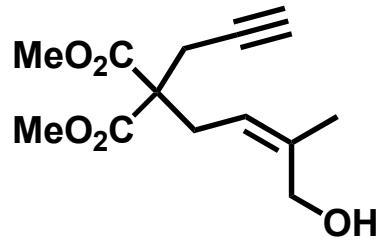
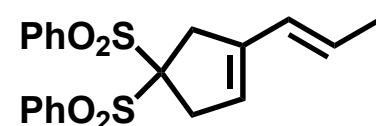
$\text{Ph}_3\text{PAuCl} / \text{AgSbF}_6$   
 $\text{CH}_2\text{Cl}_2, 23^\circ\text{C}, 25 \text{ min}$   
(91%)



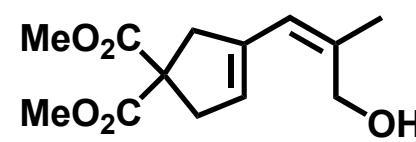
$\text{Ph}_3\text{PAuCl} / \text{AgBF}_4$   
 $\text{CH}_2\text{Cl}_2, 23^\circ\text{C}, 10 \text{ min}$   
(96%)

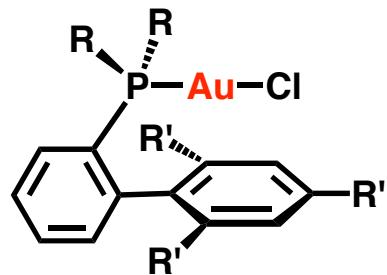


$\text{Ph}_3\text{PAuCl} / \text{AgBF}_4$   
 $\text{CH}_2\text{Cl}_2, 23^\circ\text{C}, 15 \text{ min}$   
(100%)

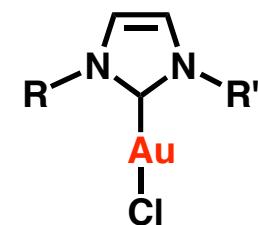
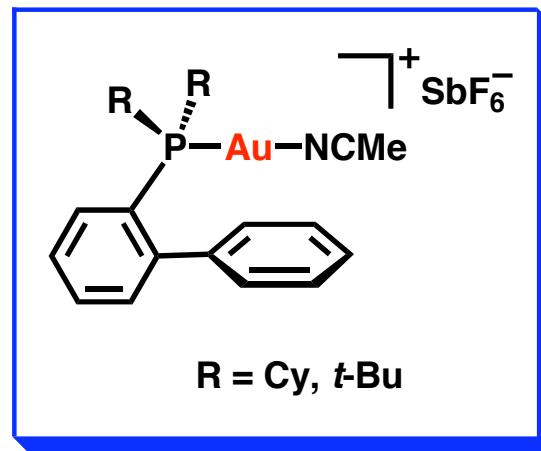
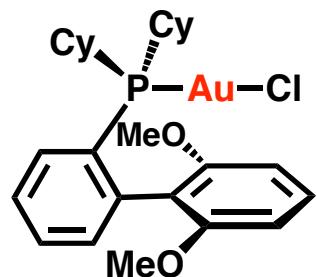


$\text{Ph}_3\text{PAuCl} / \text{AgSbF}_6$   
 $\text{CH}_2\text{Cl}_2, 23^\circ\text{C}, 5 \text{ min}$   
(67%)





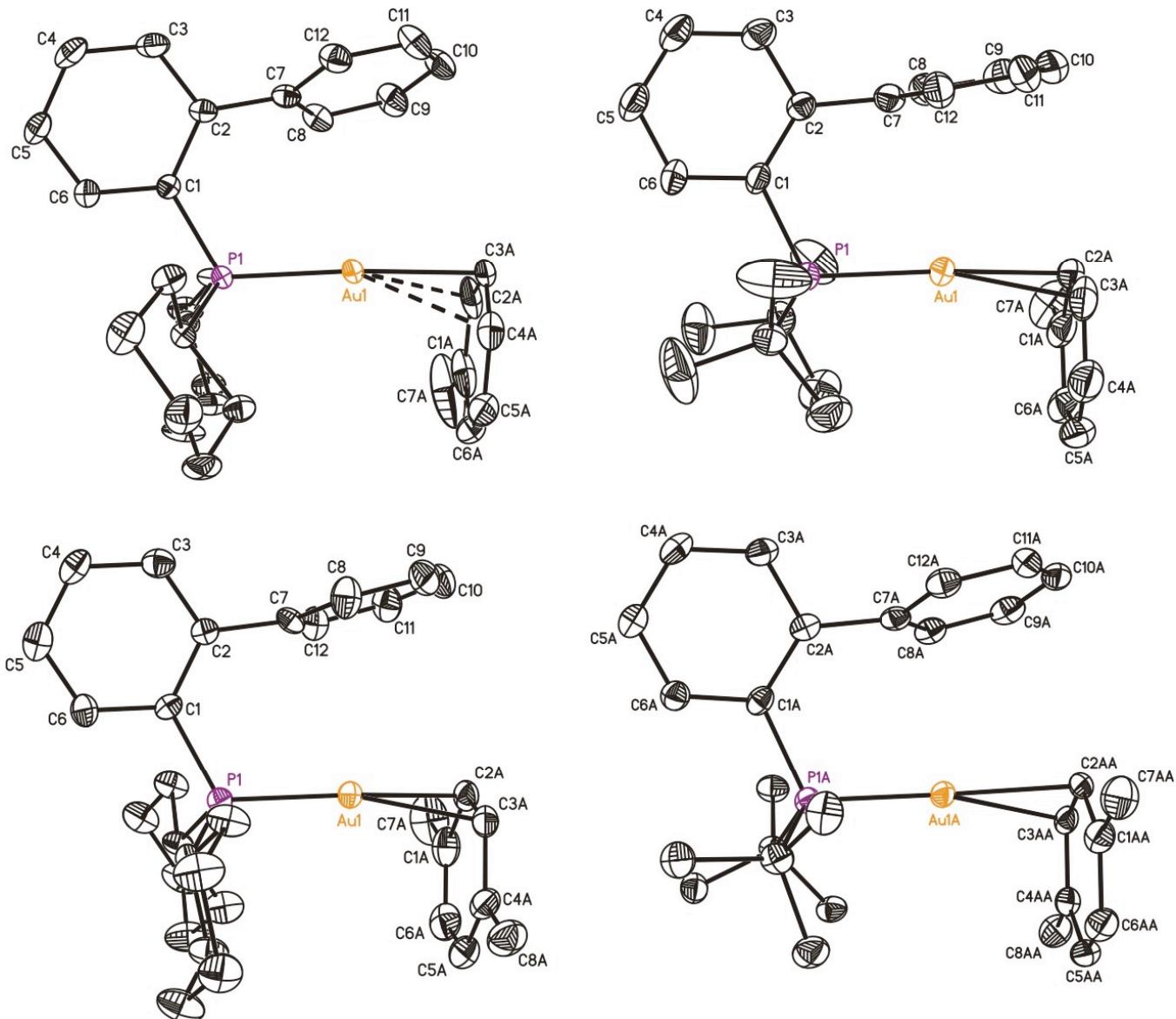
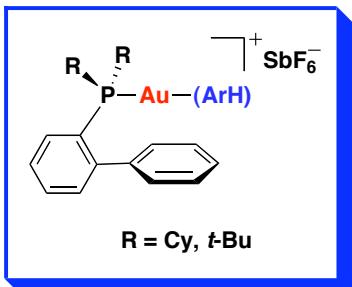
R = Cy, R' = H  
R = *t*-Bu, R' = H  
R = Cy, R' = *i*-Pr

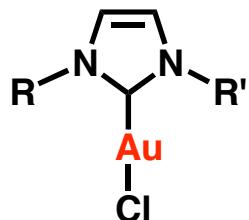


R = R' = Mes  
R = Mes, R' = Me  
R = R' = Me

C. Nieto-Oberhuber

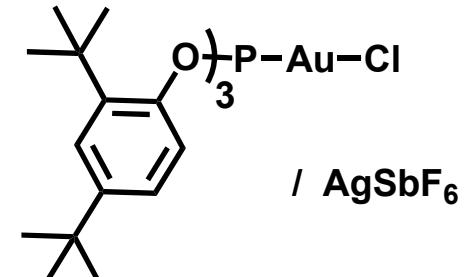
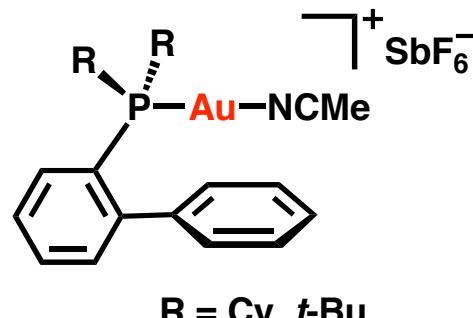
## New Au(I) Complexes



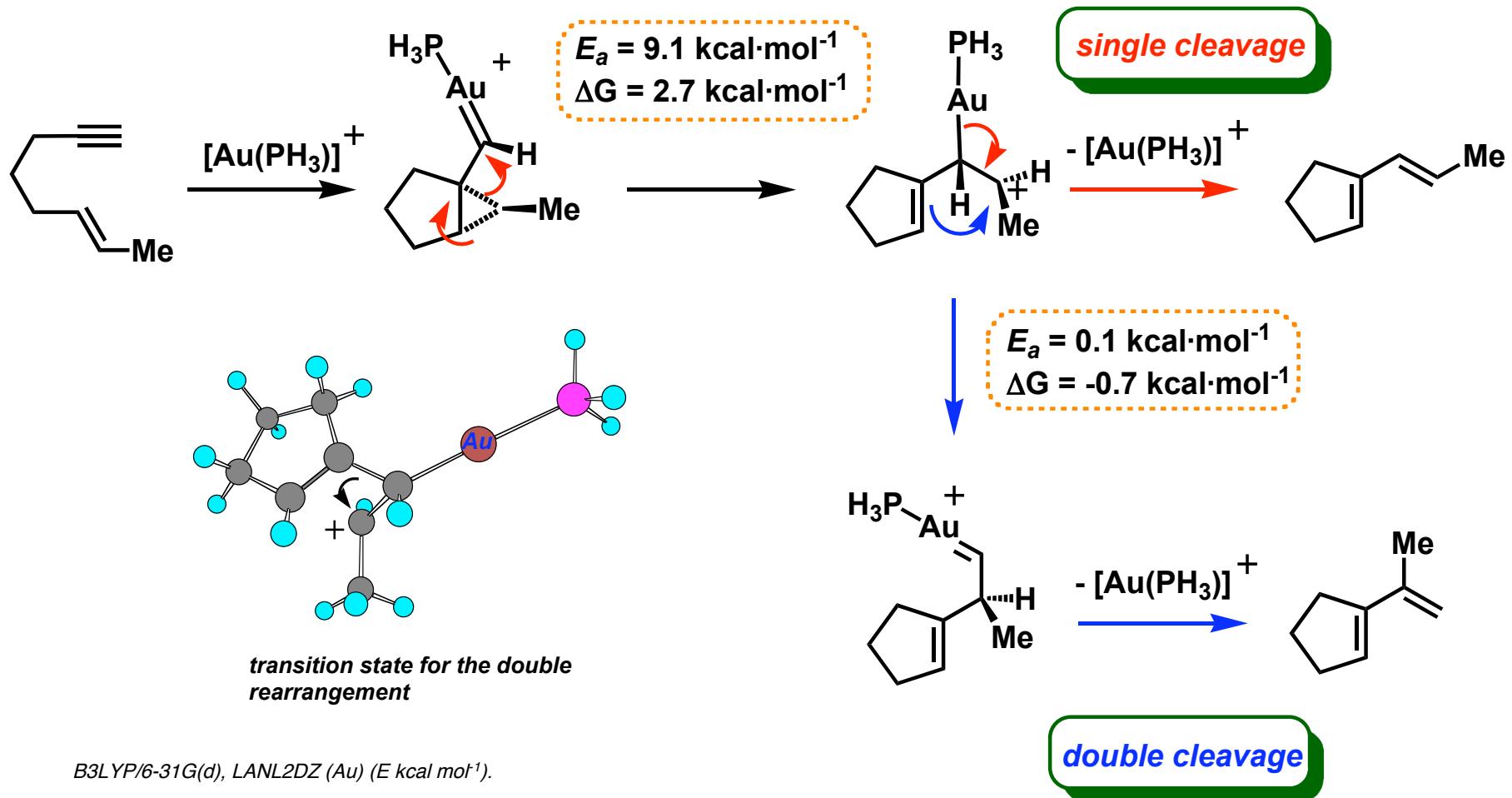


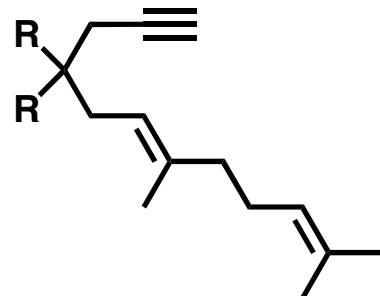
AuCl  
/ AgSbF<sub>6</sub>

R = R' = Mes  
 R = Mes, R' = Me  
 R = R' = Me

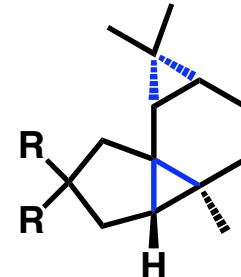


electrophilicity

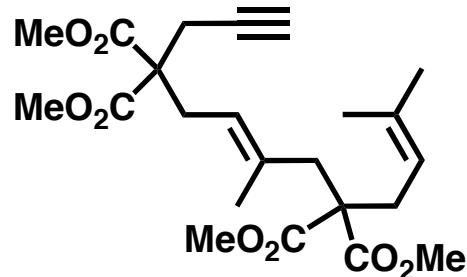




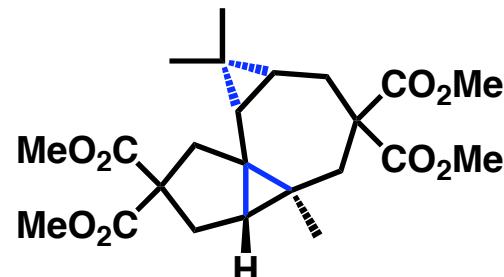
[Au(PPh<sub>3</sub>)(MeCN)]<sup>+</sup>SbF<sub>6</sub><sup>-</sup>  
(2 mol%)  
CH<sub>2</sub>Cl<sub>2</sub>, 23°C, 5 min



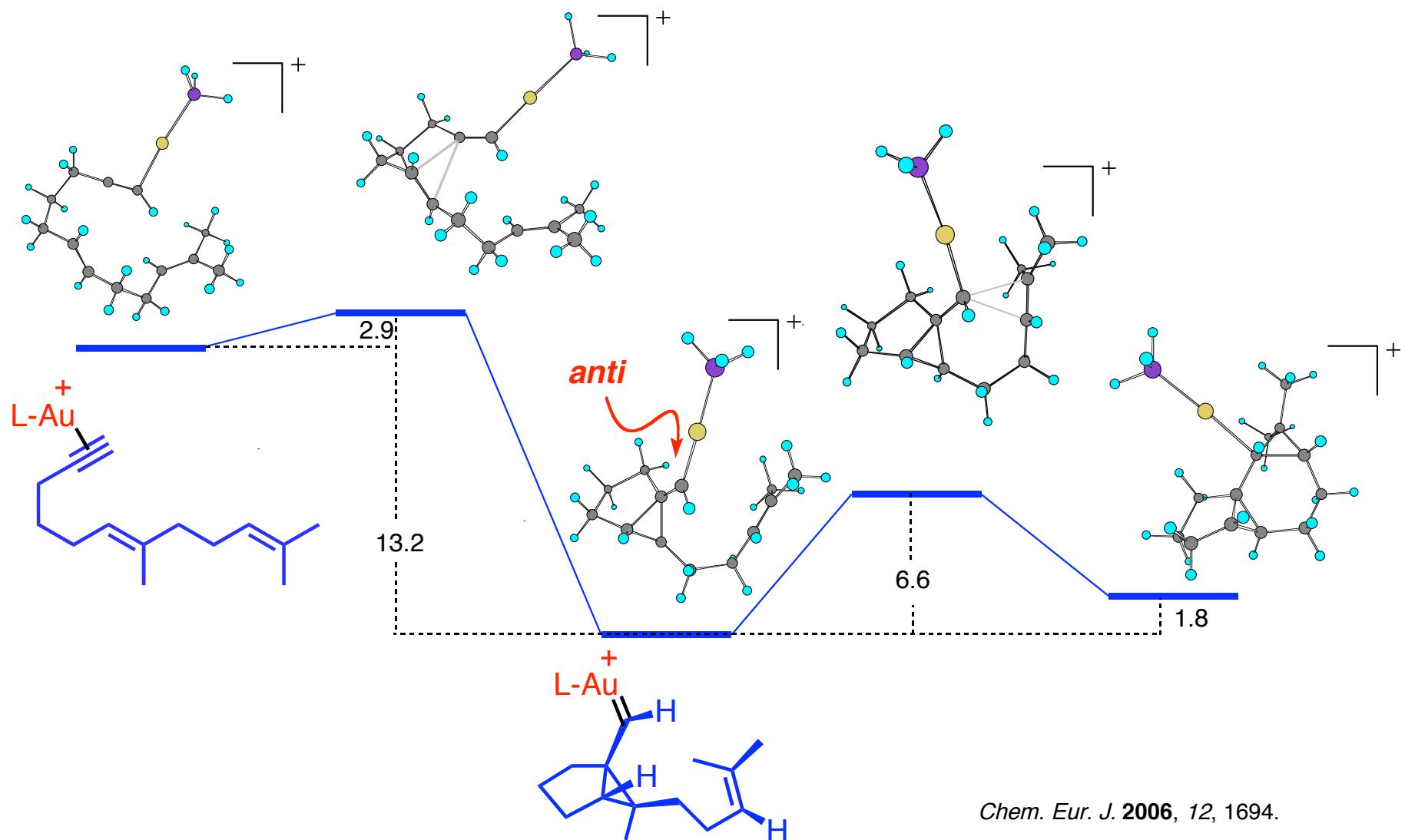
R = CO<sub>2</sub>Me (98%)  
R = SO<sub>2</sub>Ph (100%)  
R = CH<sub>2</sub>OAc (96%)

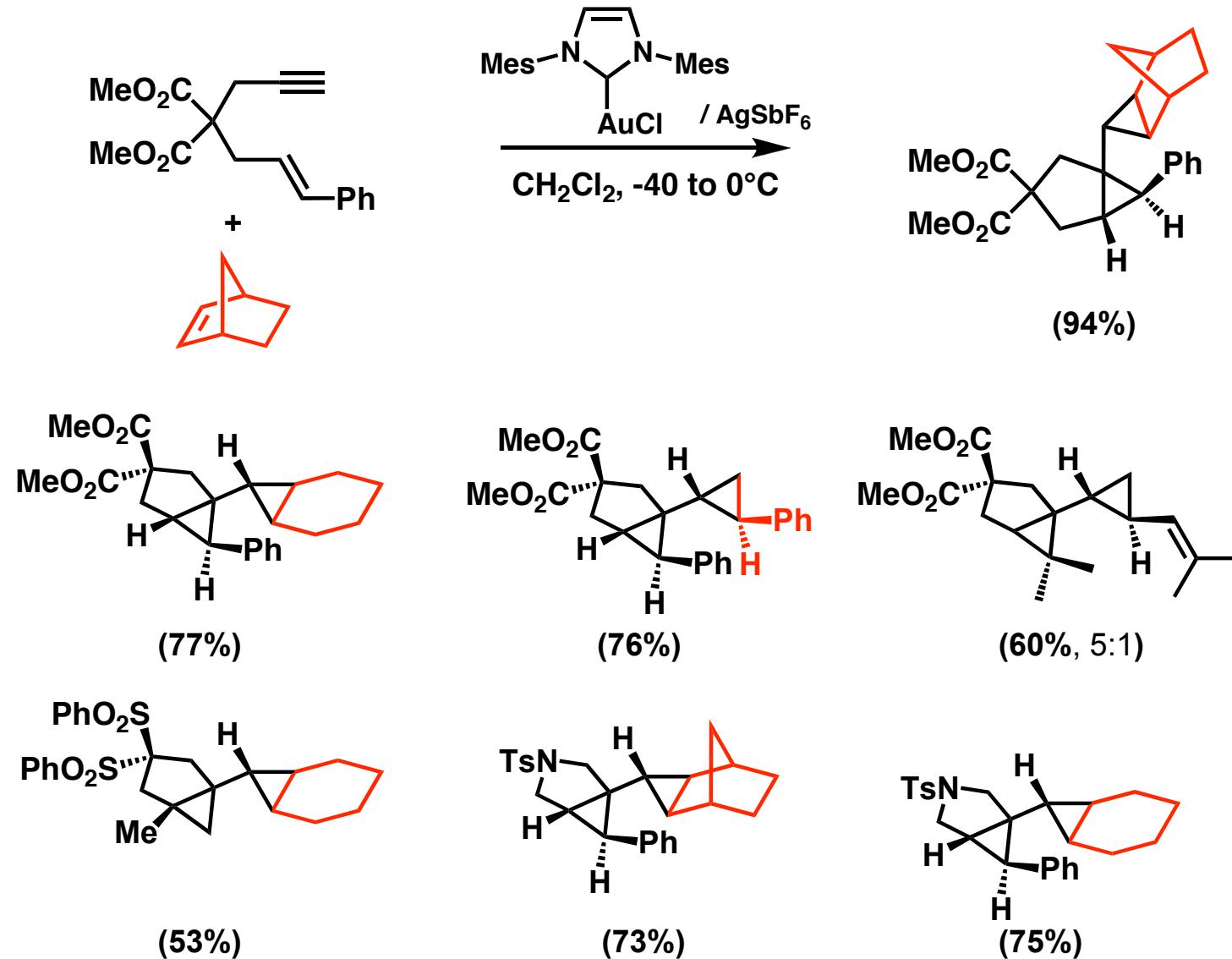


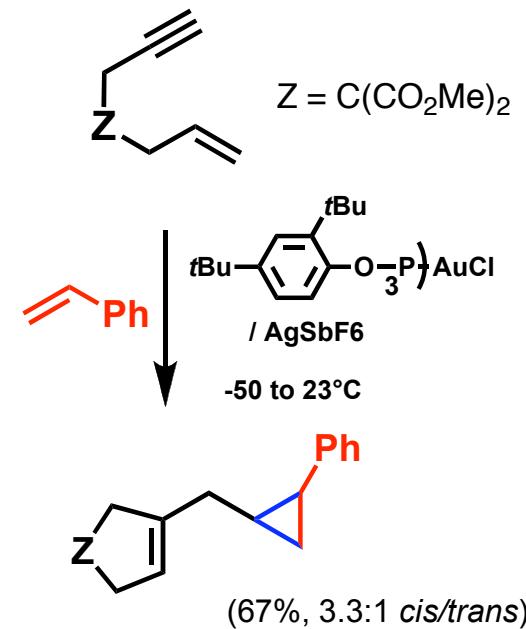
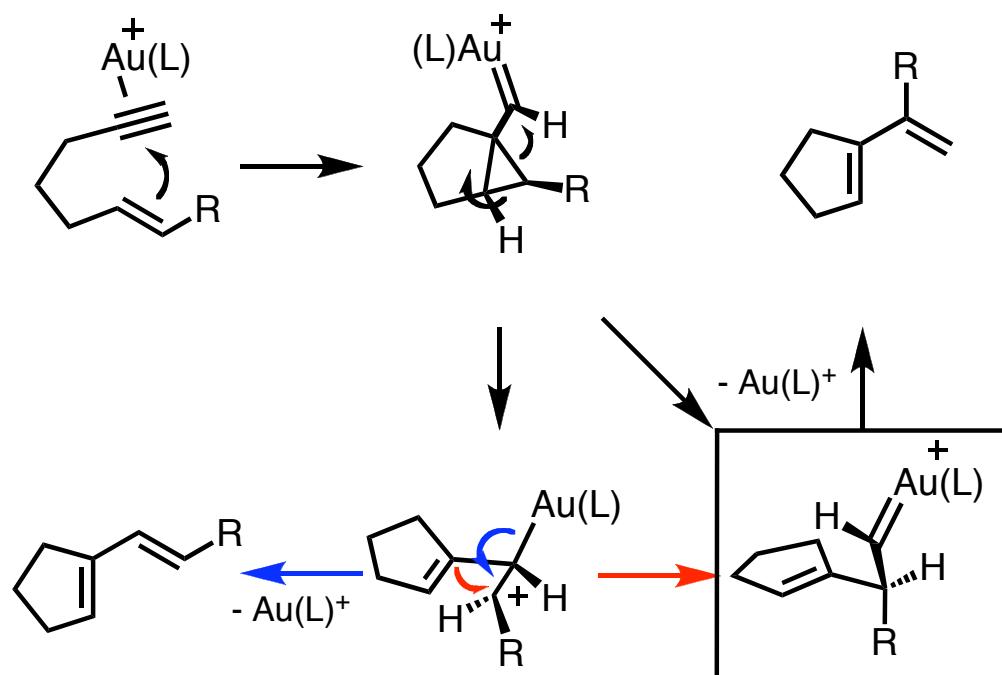
[Au(PPh<sub>3</sub>)(MeCN)]<sup>+</sup>SbF<sub>6</sub><sup>-</sup>  
(2 mol%)  
CH<sub>2</sub>Cl<sub>2</sub>, 23°C, 5 min



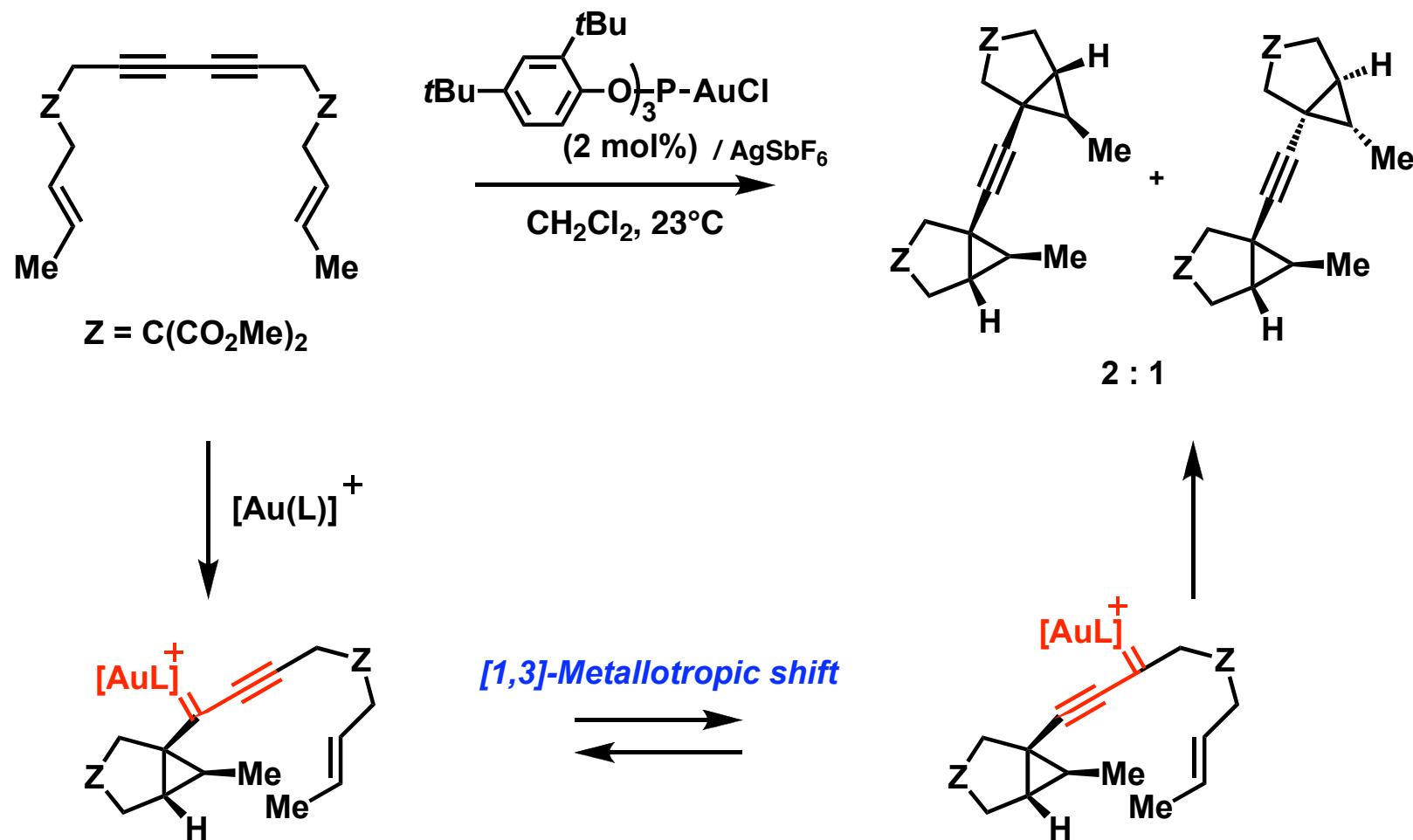
(88%)



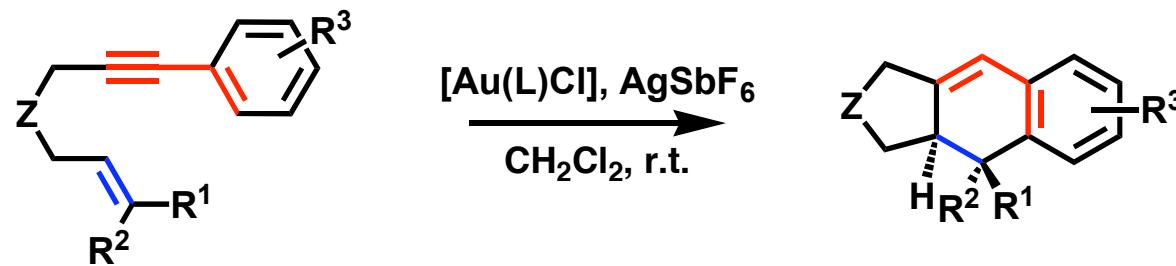




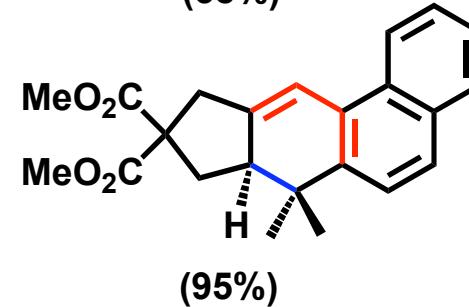
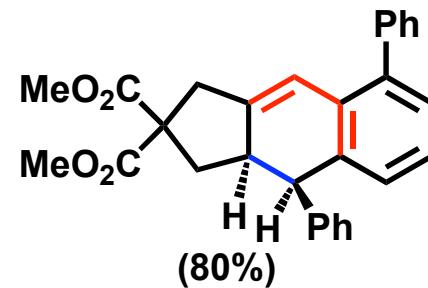
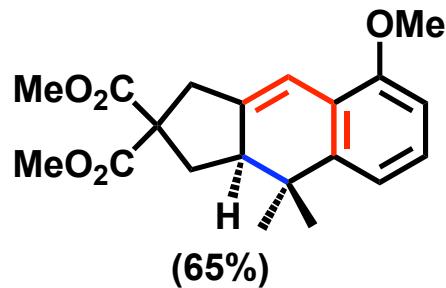
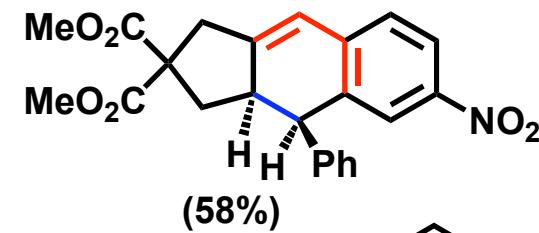
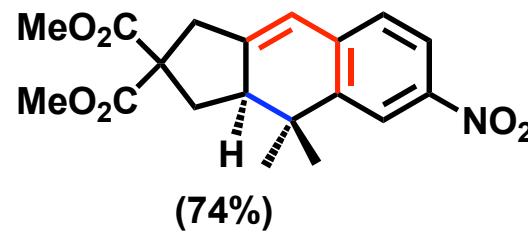
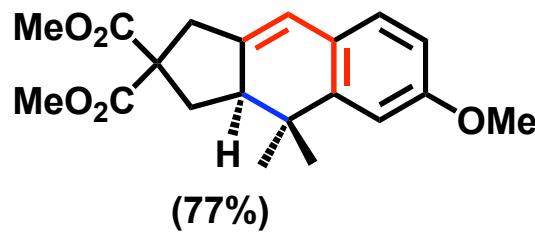
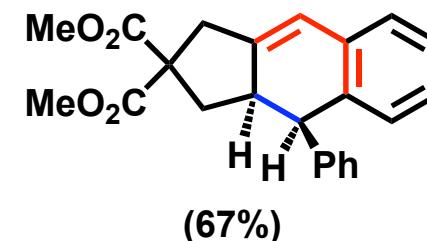
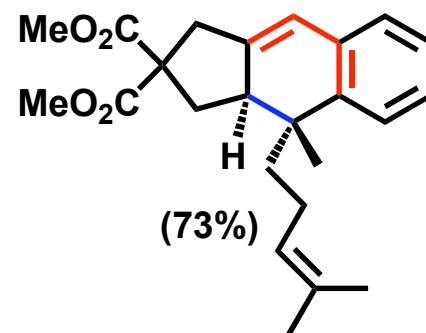
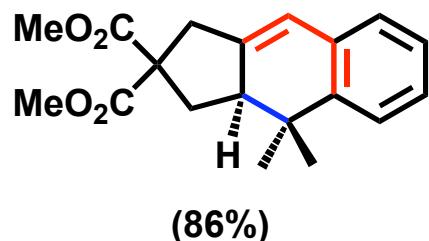
*Au(I) Metallotropic Shift*

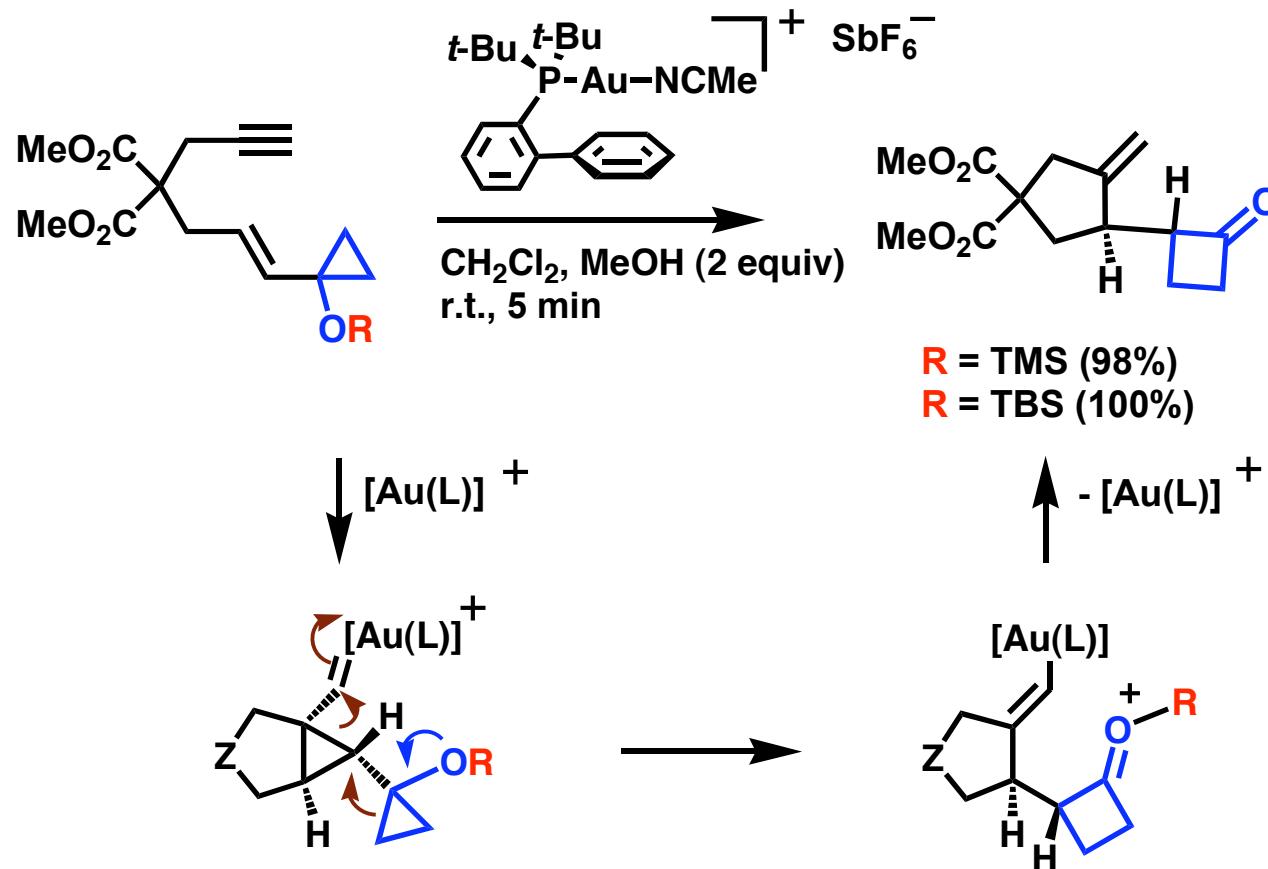


[4+2] Cycloaddition of Arylenynes



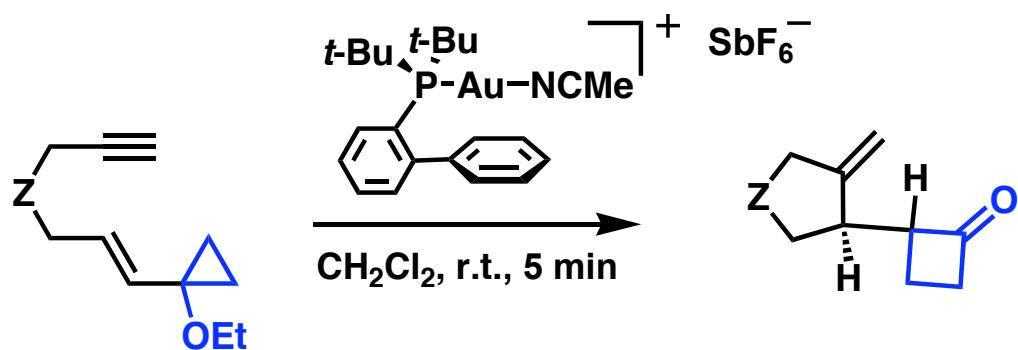
*J. Am. Chem. Soc.* 2005, 127, 6178-6179



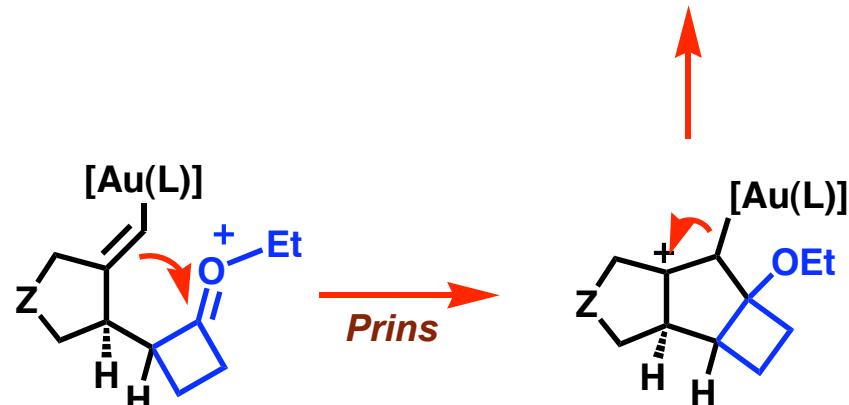
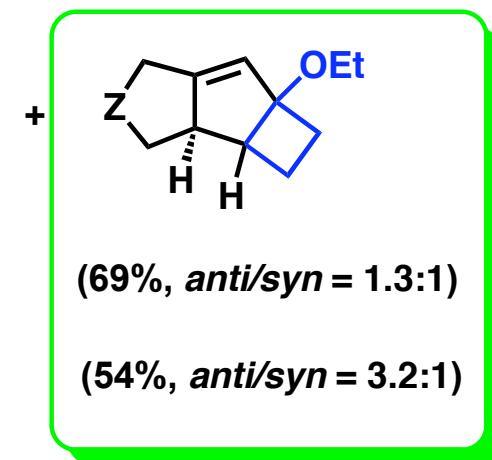
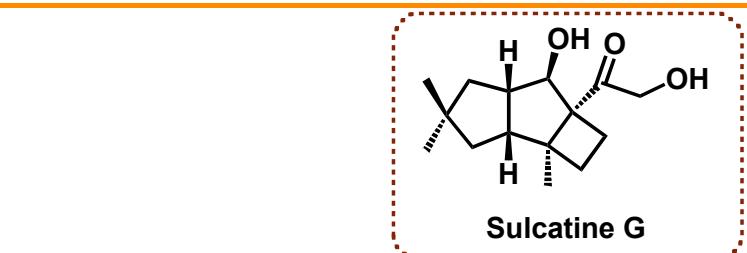
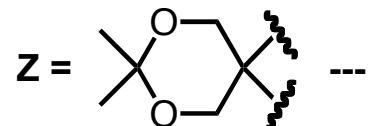


E. Jiménez-Núñez, C. Claverie

Cyclopropane to Cyclobutanone Ring Expansion and Prins Cyclization

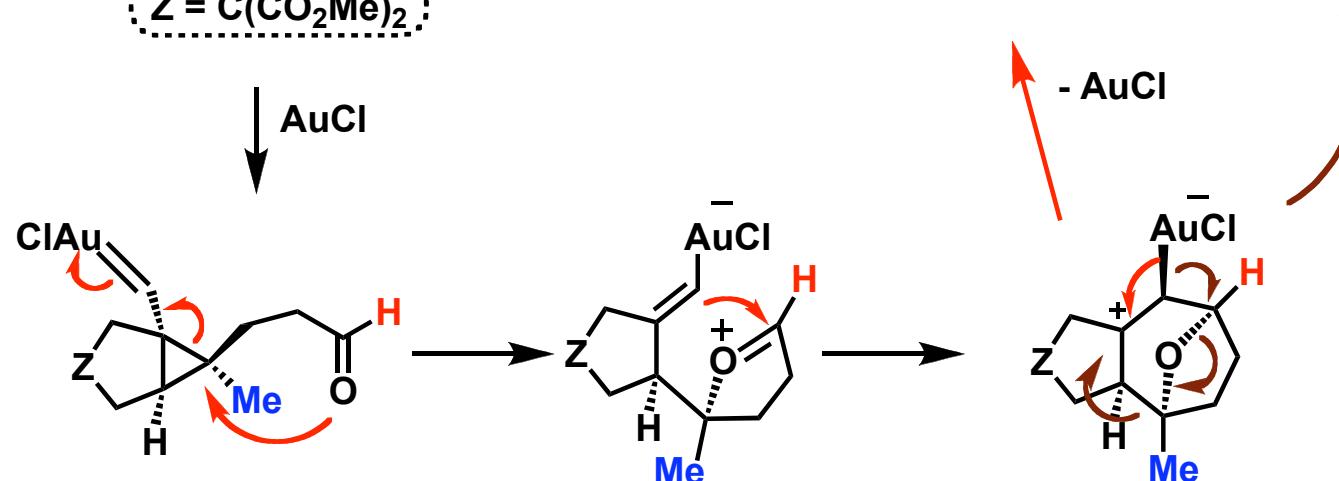
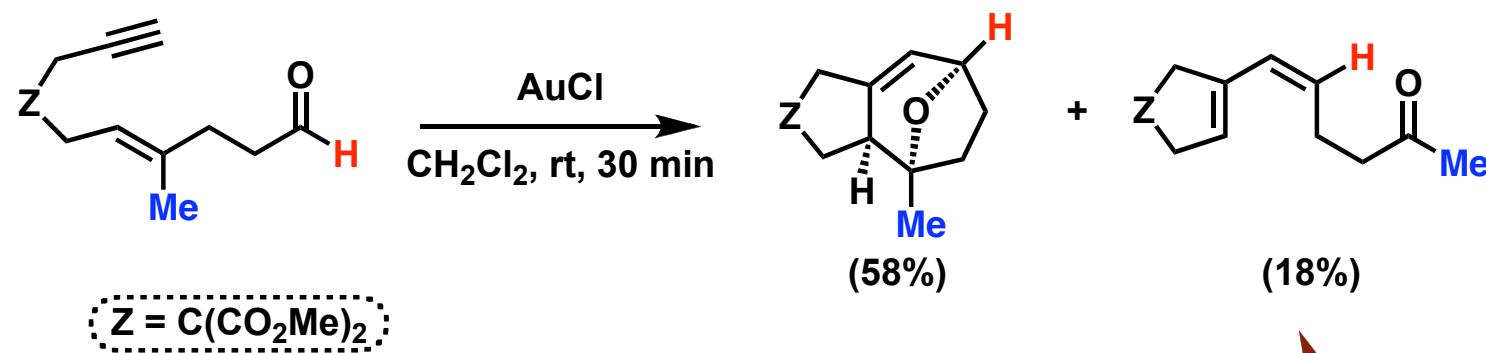


$Z = \text{C}(\text{CO}_2\text{Me})_2 \quad (11\%)$



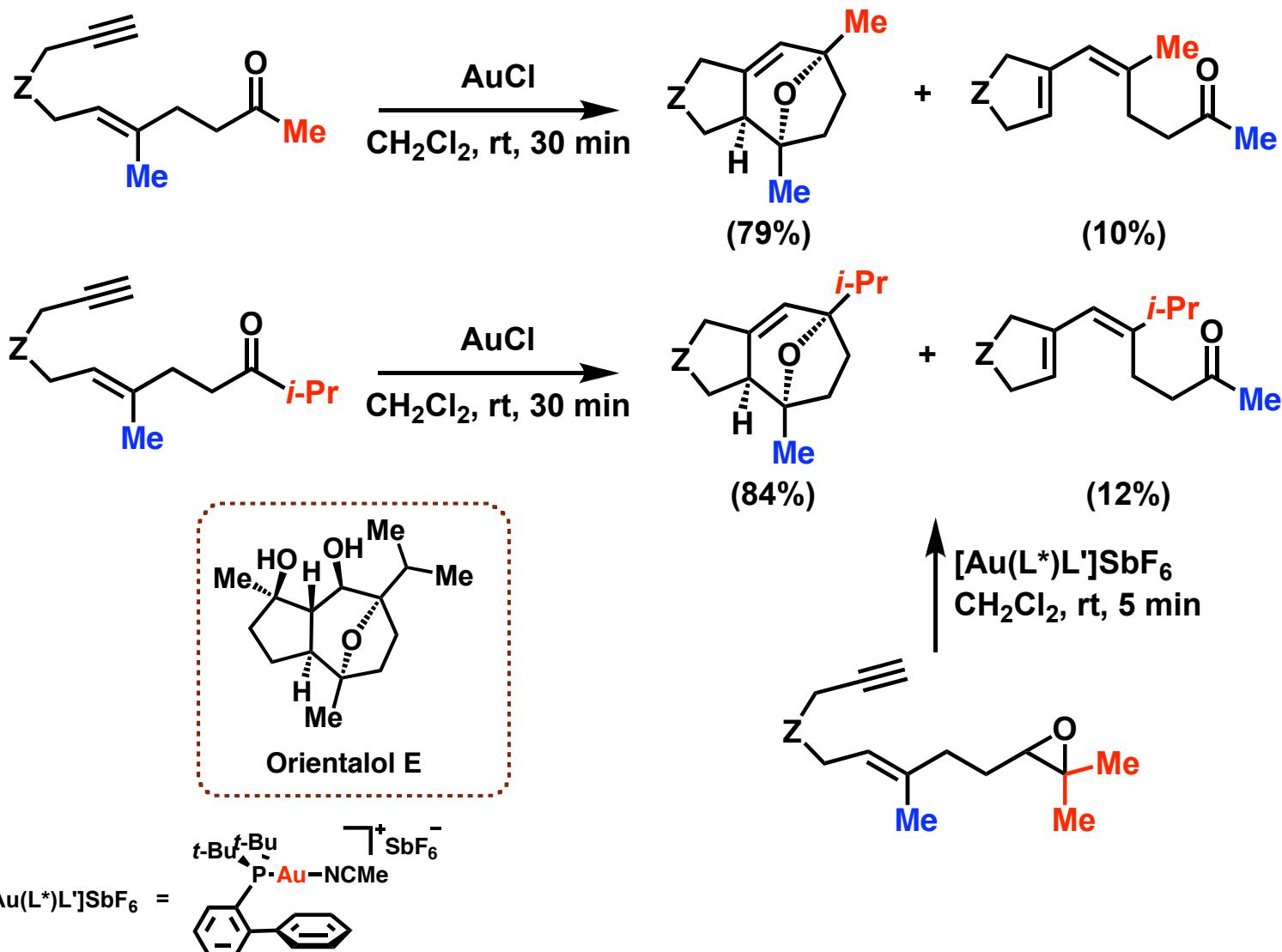
E. Jiménez-Núñez, C. Claverie

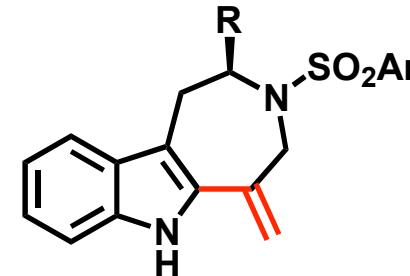
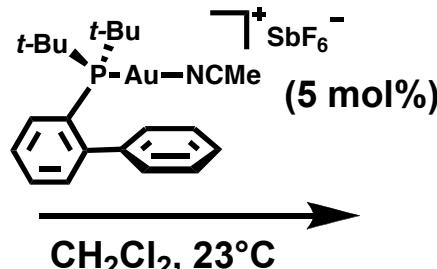
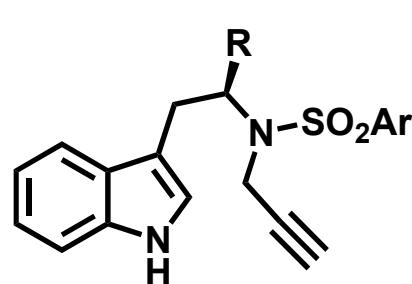
Gold-Prins Reaction



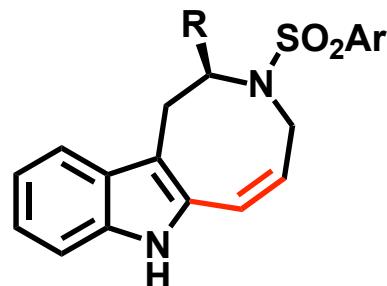
*Angew. Chem. Int. Ed.* **2006**, *45*, 5452.

Gold-Prins Reaction

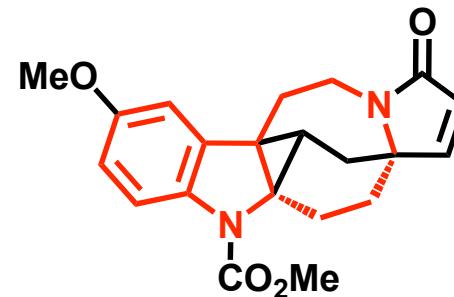




$R = CO_2Me, Ar = 2,4-(NO_2)_2C_6H_3$  30 min (82%)  
 $R = H, Ar = Ph$  16 h (65%)



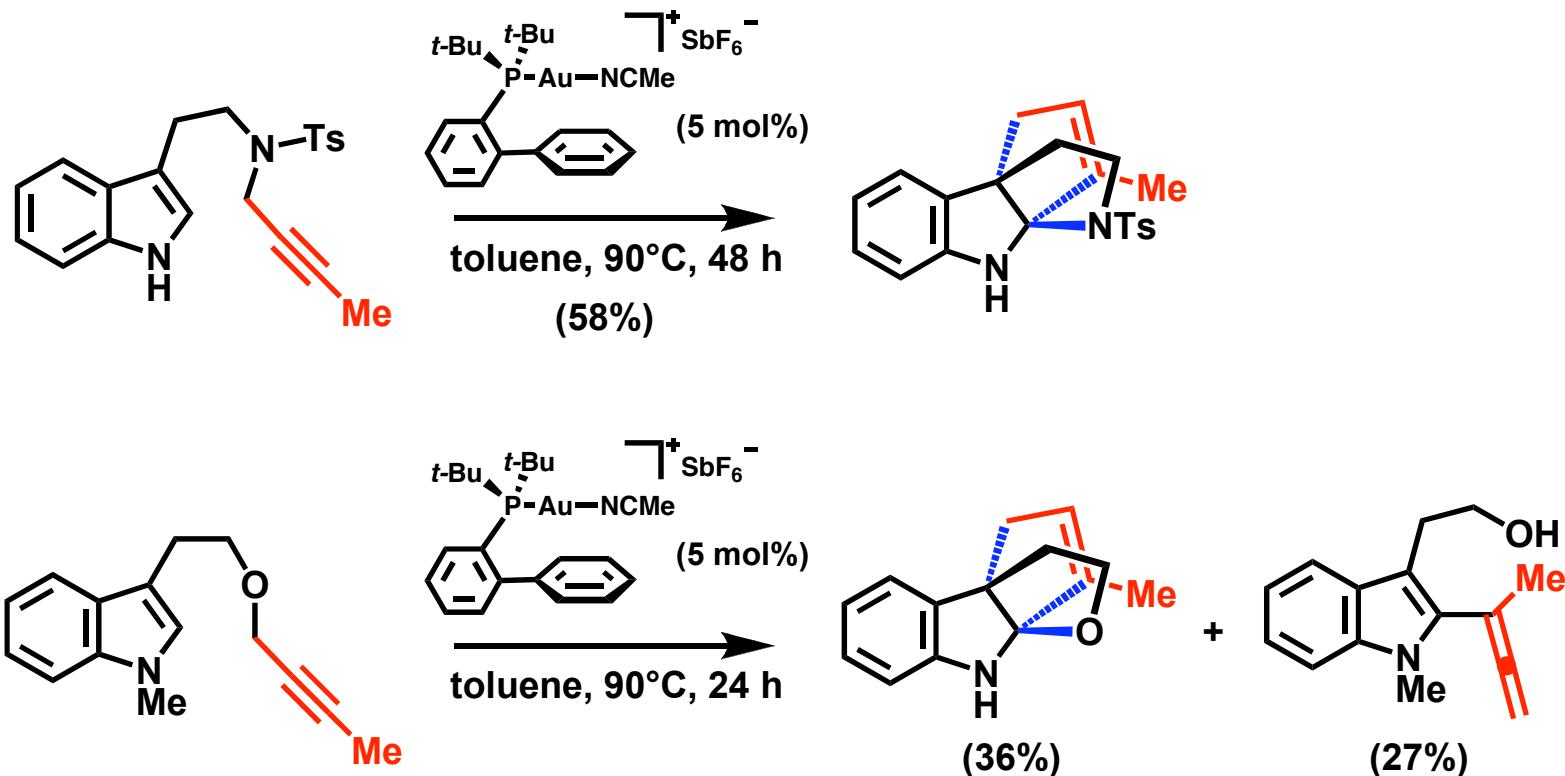
$\downarrow AuCl_3$   
 $CH_2Cl_2, 23^\circ C, 1\text{ h}$



*Lundurine A*

$R = CO_2Me, Ar = 2,4-(NO_2)_2C_6H_3$  30 min (75%)  
 $R = H, Ar = Ph$  24 h (55%)

*Angew. Chem. Int. Ed.* **2006**, *45*, 1105.



Catelijne Amijs, Cati Ferrer

