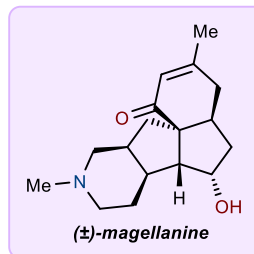


Background

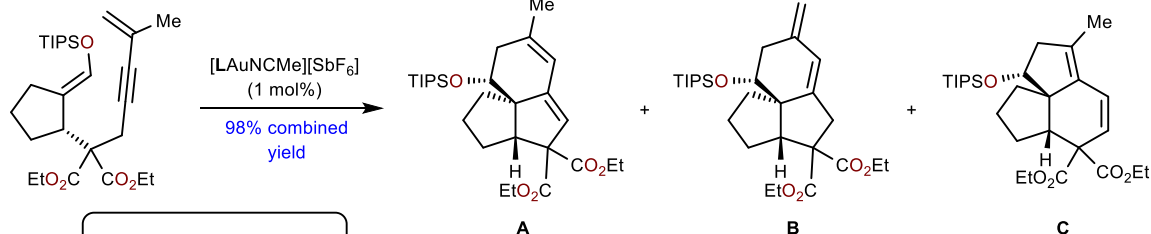
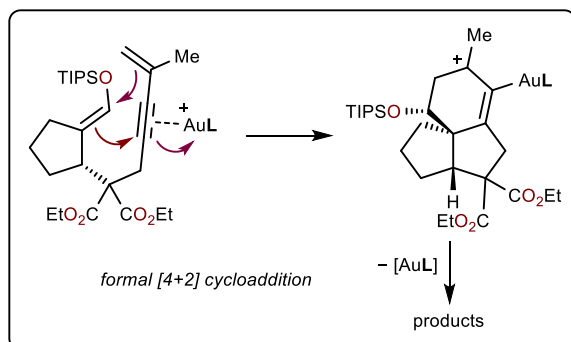
- First isolated in 1976 from the club moss *Lycopodium magellanicum*
- Features an angularly-fused tetracyclic ring system and six contiguous stereocenters
- First synthesized by Overman in 1993, other notable syntheses include Paquette (1993), Liao (2002), Takahashi (2005), and Mukai (2007)



Lycopodium magellanicum

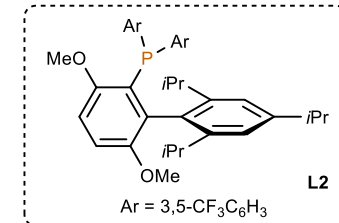
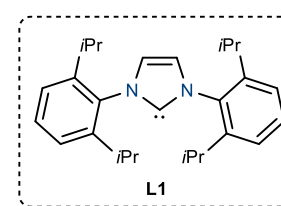
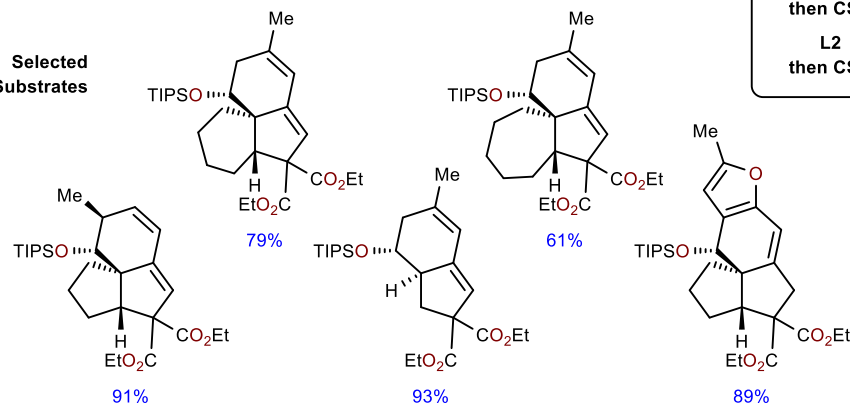
MacLean, D. B. *Can. J. Chem.* **1976**, *54*, 2893. <https://doi.org/10.1139/v76-409>

Key Step: Au(I)-Catalyzed Dehydro Diels-Alder

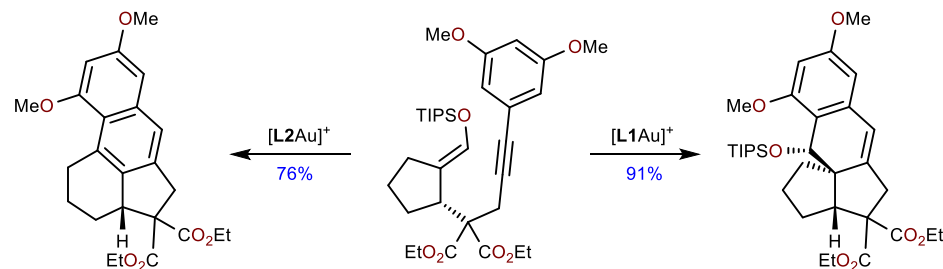


	A : B : C
L1 no additive	6 : 6 : 1
L1 then CSA	13 : 0 : 1
L2 then CSA	> 20 : 0 : 1

Selected Substrates



Divergent Reactivity



Barriault, L. *Angew. Chem. Int. Ed.* **2017**, *56*, 6280. <https://doi.org/10.1002/anie.201611606>

Synthesis

