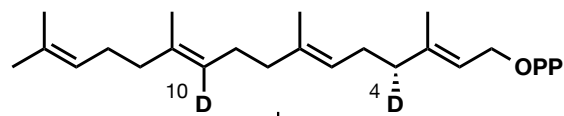
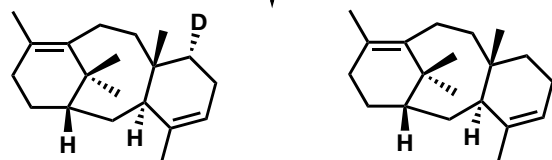


1. Team Grempel

Monodeuterated geranylgeranyldiphosphate was used (either at C₁₀ or at C₄). Explain the results and give the correct stereochemistry for the chiral D-center.

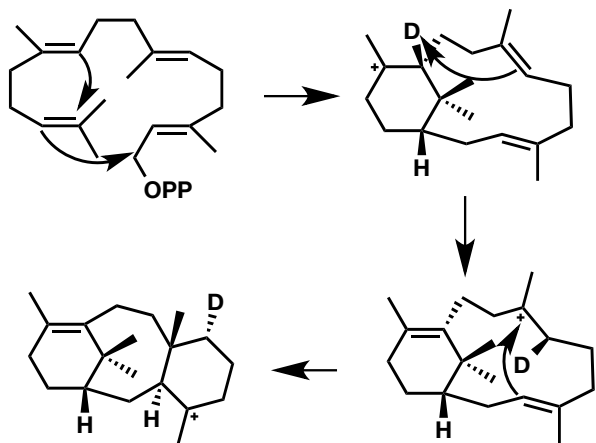


Taxadien-Synthase

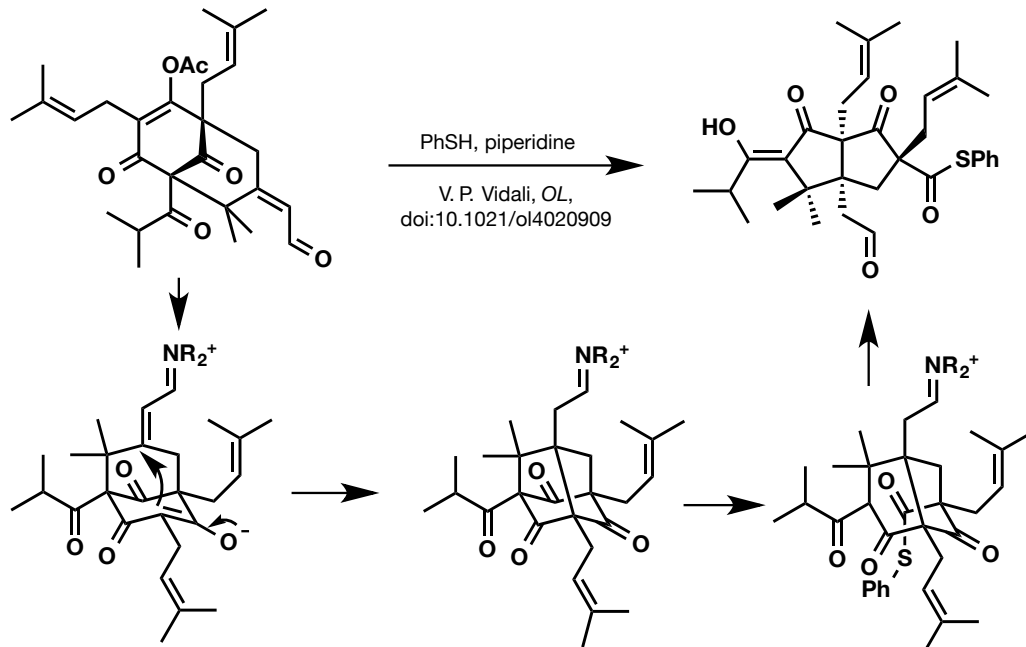


give stereochemistry for D

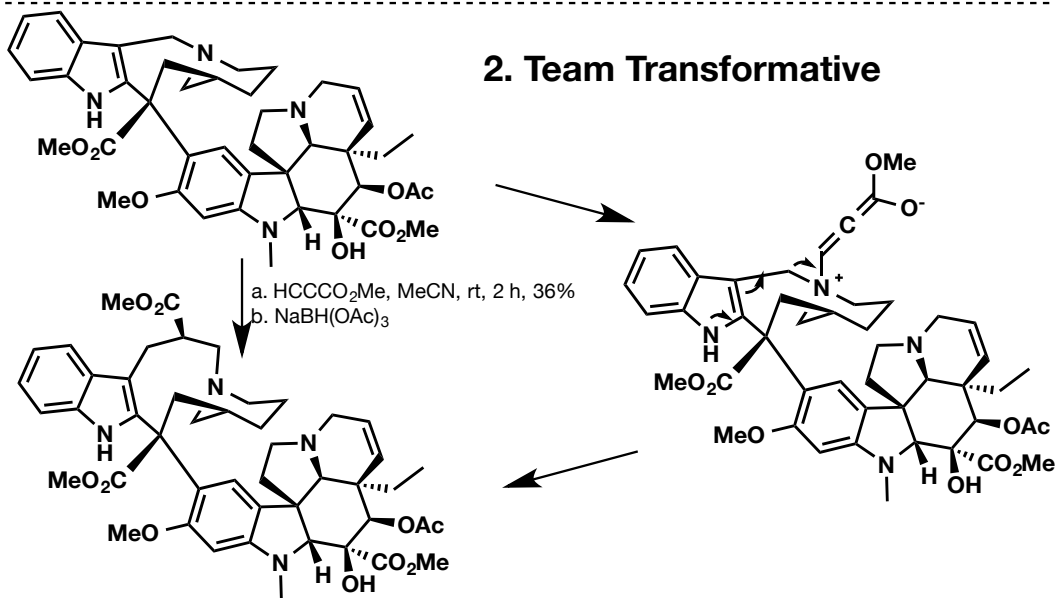
D. C. Williams, B. J. Carroll, Q. Jin, C. Rithner, S. R. Lenger, H. G. Floss, R. M. Coates, R. M. Williams R. Croteau, *Chem. Biol.*, **2000**, *7*, 969



D at C₁₀ is transferred, D at C₄ is eliminated.

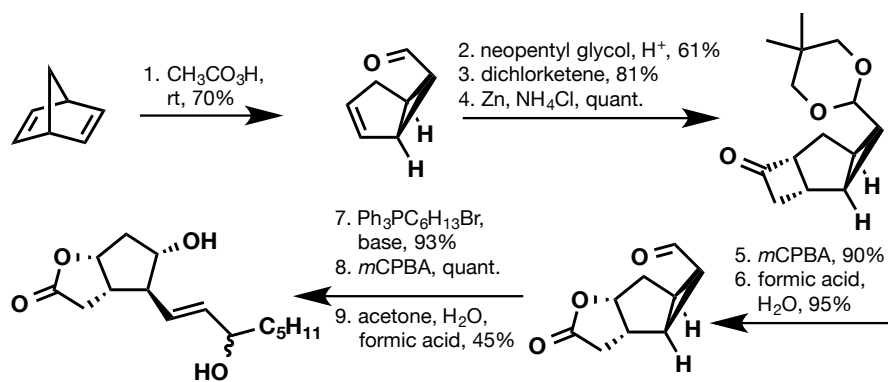


2. Team Transformative



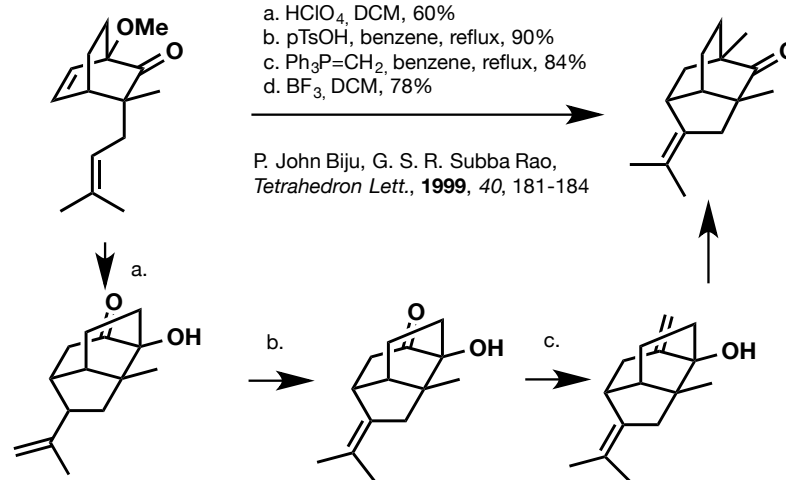
F. Roussi et al, *J. Med. Chem.*, **2013**, *56*, 6088-6100

2. Team Transformative



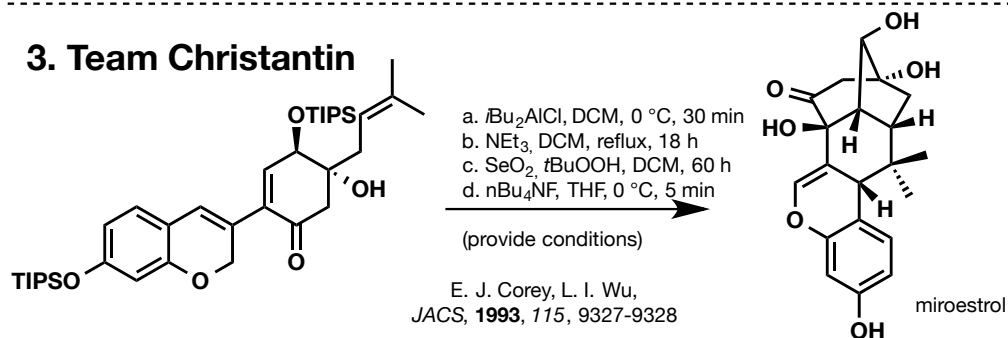
R. C. Kelly, V. VanRheenen, I. Schletter, M. D. Pillai, *JACS*, **1973**, *95*, 2746

3. Team Christantin

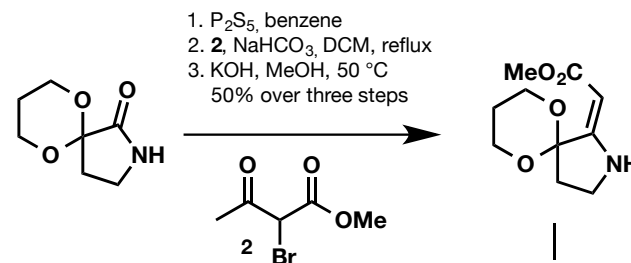


P. John Biju, G. S. R. Subba Rao, *Tetrahedron Lett.*, **1999**, *40*, 181-184

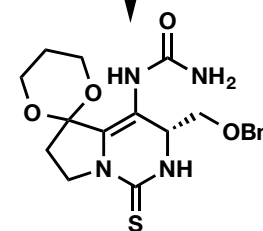
3. Team Christantin



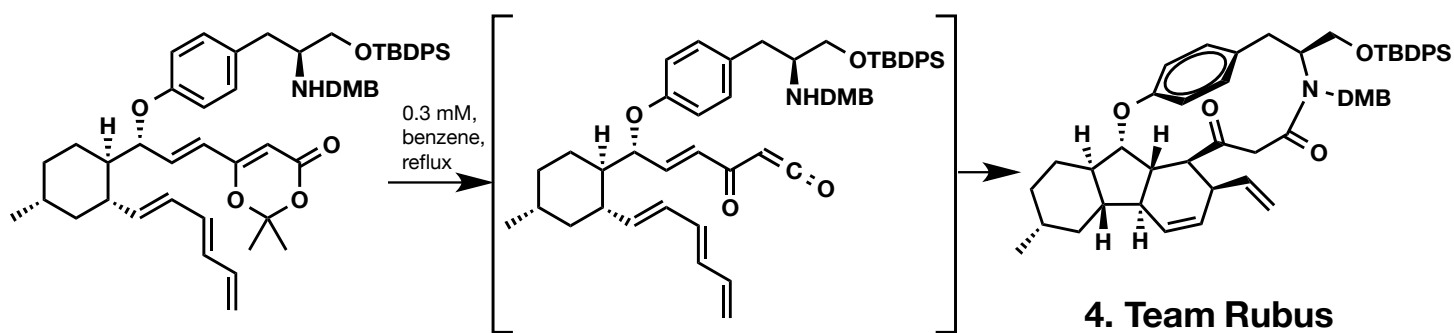
4. Team Rubus



4. $\text{Si}(\text{NCS})_4$, **3**, rt to 110 °C, 75%
5. H_2NNH_2 , H_2O , MeOH,
6. NOCl , DCM, -50 °C
7. 90 °C, benzene, then NH_3



Y. Kishi et al, *JACS*, **1977**, *98*, 2818



4. Team Rubus

K. P. Reber, S. D. Tilley, C. A. Carlson, E. J. Sorensen, *JOC*, ASAP, dx.doi.org/10.10212/jo401799f

