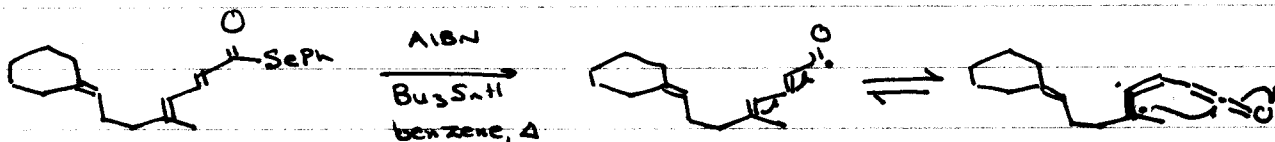


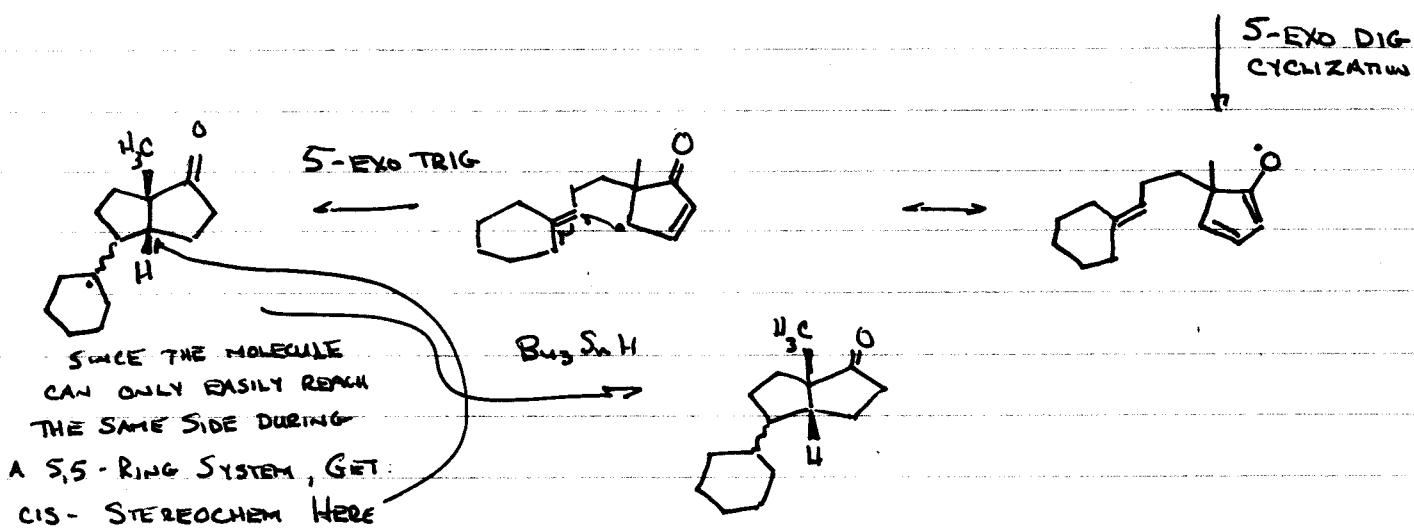
59-531  
 ASSIGNMENT #3  
 SUGGESTED SOLUTIONS.

W 2007

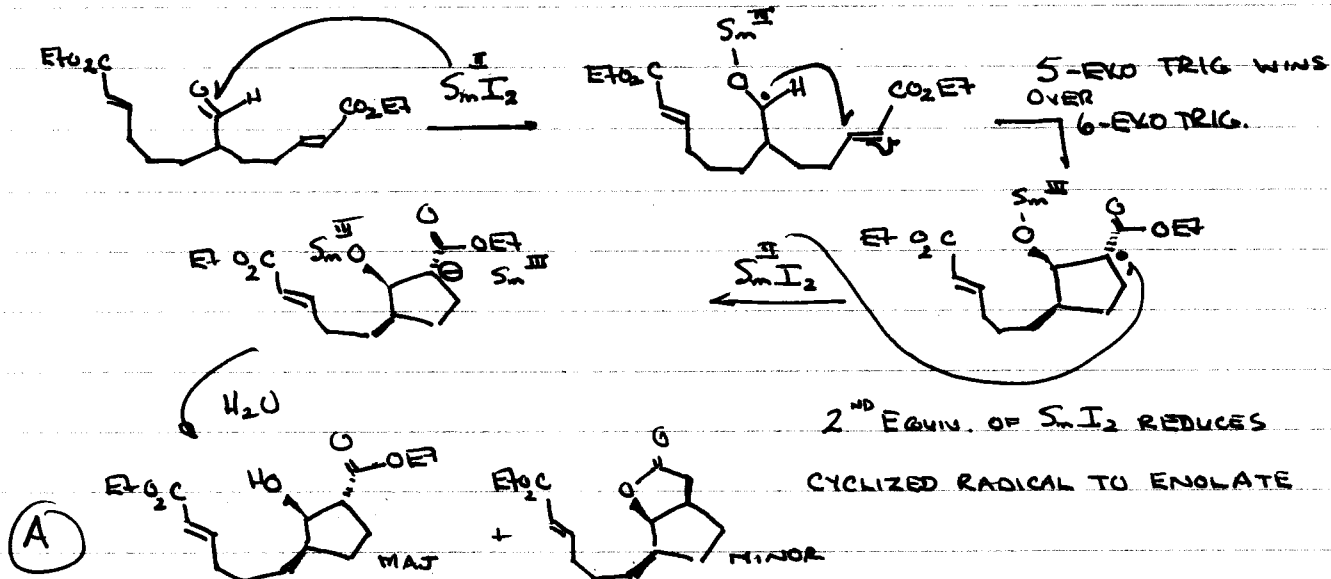
1. THIS WAS SLIGHTLY ALTERED FROM DE BOECK, B.; HERBERT, N.M.A.;  
 HARRINGTON-FROST, N.M.; PATTERSON, G. ORG. BIOMOL. CHEM. 2005, 3, 328.



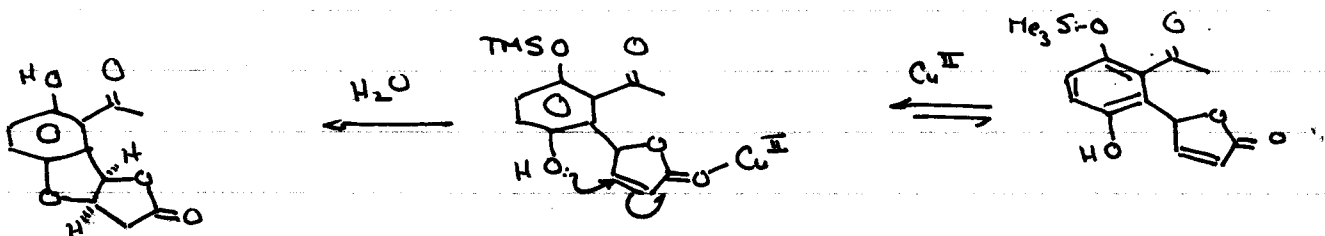
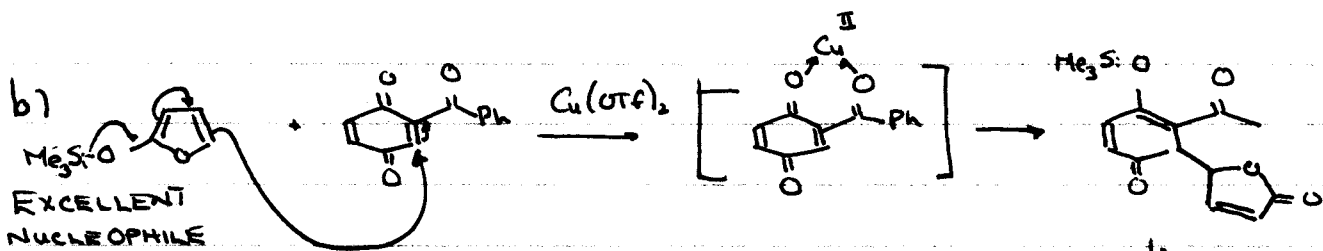
I AM NOT USING RESONANCE FORM ARROWS  
 HERE BECAUSE BOND ROTATION MUST OCCUR  
 FOR THIS INTERCHANGE / INTERCONVERSION



2. a)



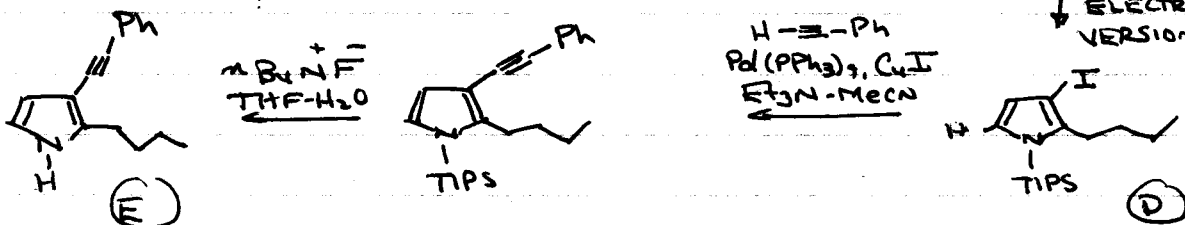
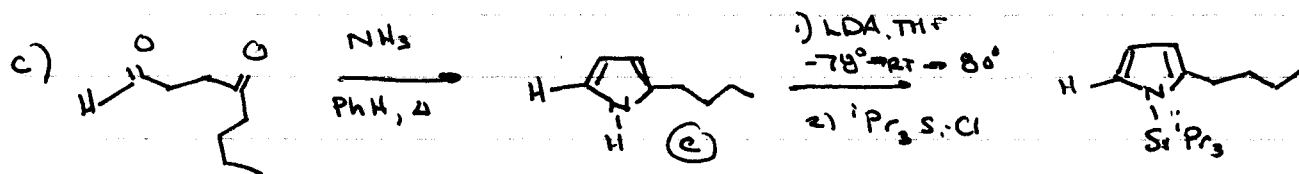
SEE ENHOLM, E.; TRINELLAS, A. TETRAHEDRON LETT. 1989 30, 1063.



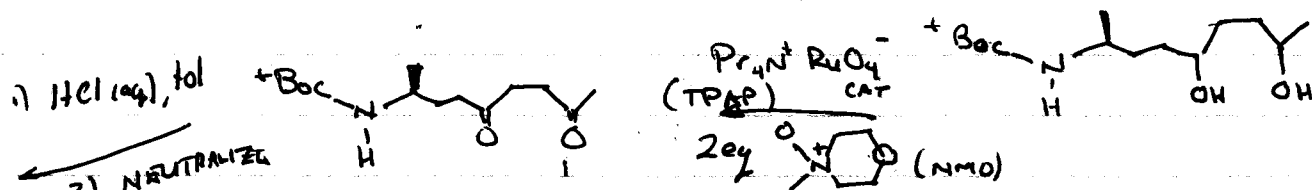
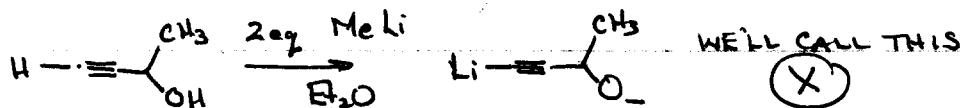
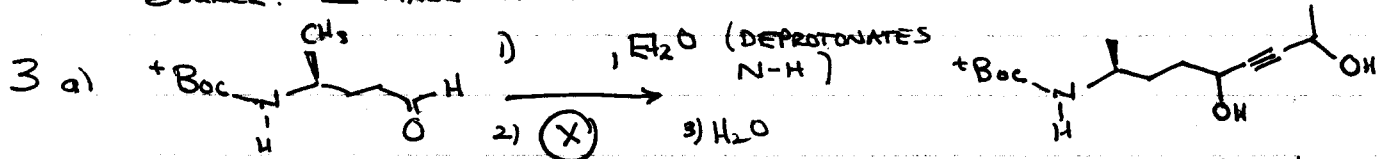
ⓐ AGAIN S,S-FUSED RING SYSTEM IS ALMOST ALWAYS CIS-FUSED

TAKEN FROM TOWERS, D.K.M.; WOODGATE, P.D.; BRIMBLE, M.A. ARVENOL 2003, 43.

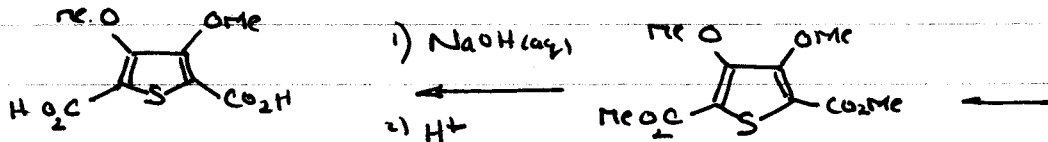
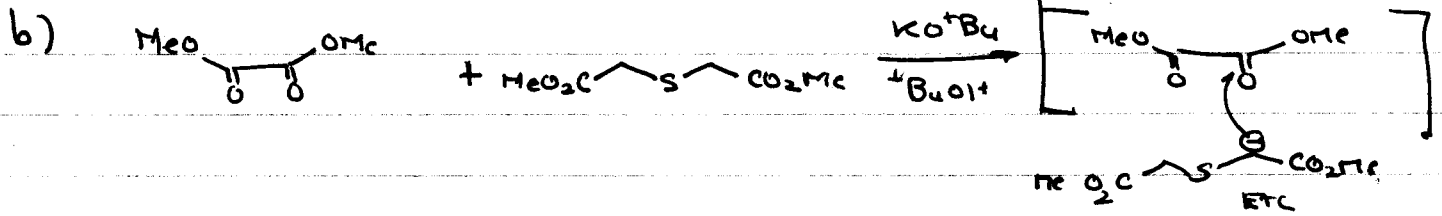
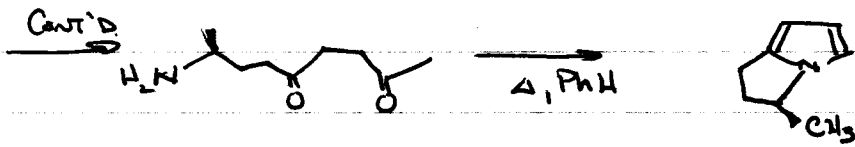
AND BRIMBLE, M.A.; BRENSTROM, T.J. J. CHEM. SOC. PERKIN TRANS 1 2001, 1624.



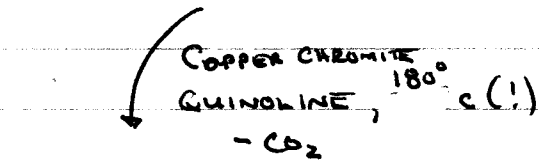
SOURCE: I MADE IT UP.



CONT'D

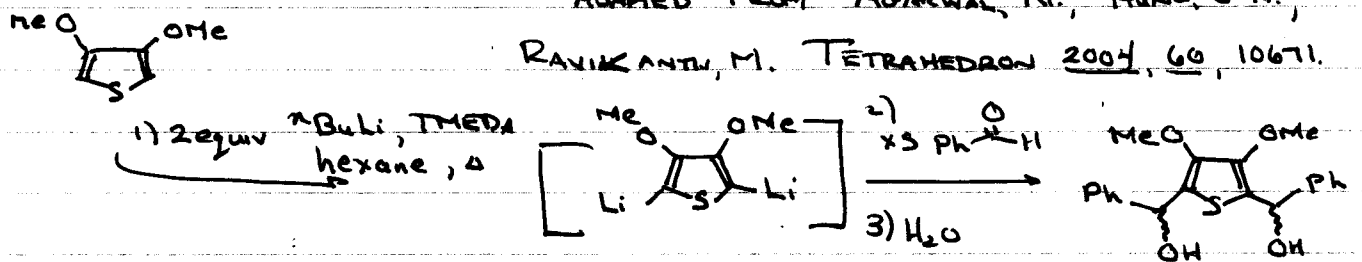


THIS IS CALLED THE HINSBERG SYNTHESIS



ADAPTED FROM AGARWAL, N.; HUNG, C.-H.;

RAVIKANTH, M. TETRAHEDRON 2004, 60, 10671.



- SEE FERINGA, B.L.; HULST, R.; RIKERS, R.; BRANDSMA, L. SYNTHESIS 1988, 316.

