

**Organic Laboratory Methods - Chemistry 320**  
**William A. Price, Ph.D.**

**Spring Semester, 2020**  
**Laboratory Projects**

- I. **A Green Enantioselective Aldol Condensation for the Undergraduate Laboratory.**  
Bennett, G. D. *J. Chem. Educ.* **2006**, *83*, 1871-1872.
  
- II. **Synthesis of a Norcantharidin Analogue: A Three-Step Synthesis of LS-16.**  
France, M.B.; Alty, L.T.; Earl, T.M. *J. Chem. Educ.*, **1999**, *76*, 659-660.  
Broshears, W.C.; Esteb, J.J.; Richter, J.; Wilson, A.M., *J. Chem. Ed.*, **2004**, *81*, 1018-1019.  
Walter, W.G., *J. Pharm. Sci.* **1989**, *78*, 66-67.
  
- III. **Sharpless Asymmetric Dihydroxylation: Effect of Alkene Structure on Rates and Selectivity.**  
Spivey, A.C.; Hanson, R.; Scora, N.; Thorpe, S.J. *J. Chem. Ed.* **1999**, *76*, 655-659.  
Nichols, C.J.; Taylor, M.R. *J. Chem. Ed.*, **2005**, *82*, 105-108.
  
- IV. **Water Mediated Wittig Reactions of Aldehydes in the Teaching Laboratory: Using Sodium Bicarbonate for the *in situ* Formation of Stabilized Ylides.**  
Kelly, M.J.B.; Fallot, L.B.; Gustafson, J.L.; Bergdahl, B.M. *J. Chem. Educ.* **2016**, *93*, 1631-1636.
  
- V. **Synthesis of a Parkinson's Disease Treatment Drug, the *R,R*-Tartrate Salt of *R*-Rasagiline.**  
Aguilar, N.; Garcia, B.; Cunningham, M.; David, S. *J. Chem. Educ.* **2016**, *93*, 937-940.
  
- VI. **Independent Project.**