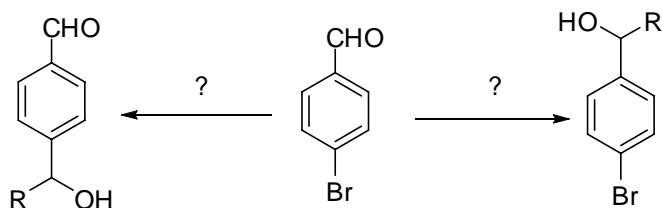


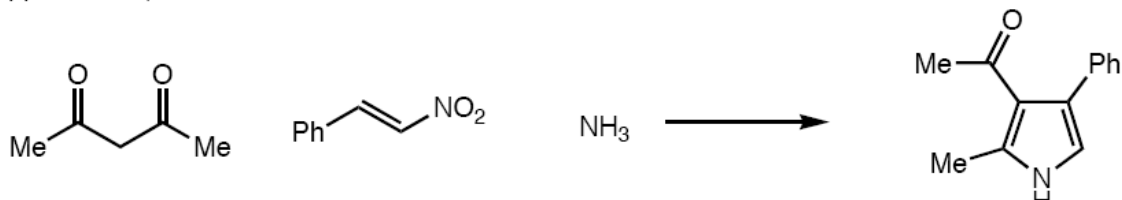
## Group Meeting Questions

1) How would you convert this bromoaldehyde chemoselectively into the two products shown?



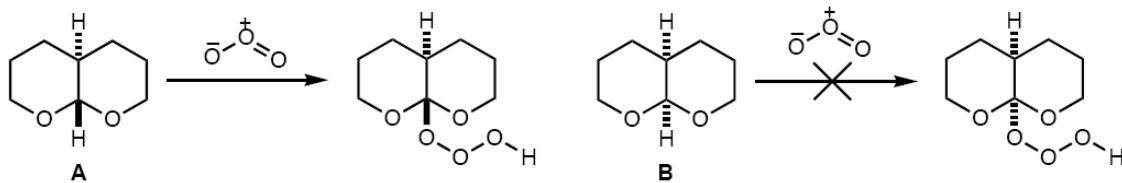
2) The following is a general reaction for the formation of pyrroles. In this condensation, any of the three reaction constituents may be widely varied. (Ono, "The Nitro Group in Organic Synthesis" Wiley-VCH, 2001. Chapter 10, pp 326-328).

Provide a plausible mechanism for this transformation.



3). The oxidation of acetals by electrophilic ozone is known to be sensitive to structure. Two striking examples of different reactivity are detailed in the questions below.

Using clear three-dimensional drawings provide a rationale for the observation that rigid glycoside **A** readily undergoes oxidation but glycoside **B** does not. Be sure to indicate all relevant stereoelectronic interactions.



Deslongchamps, *Can. J. Chem.* **1974**, 3651-3664.