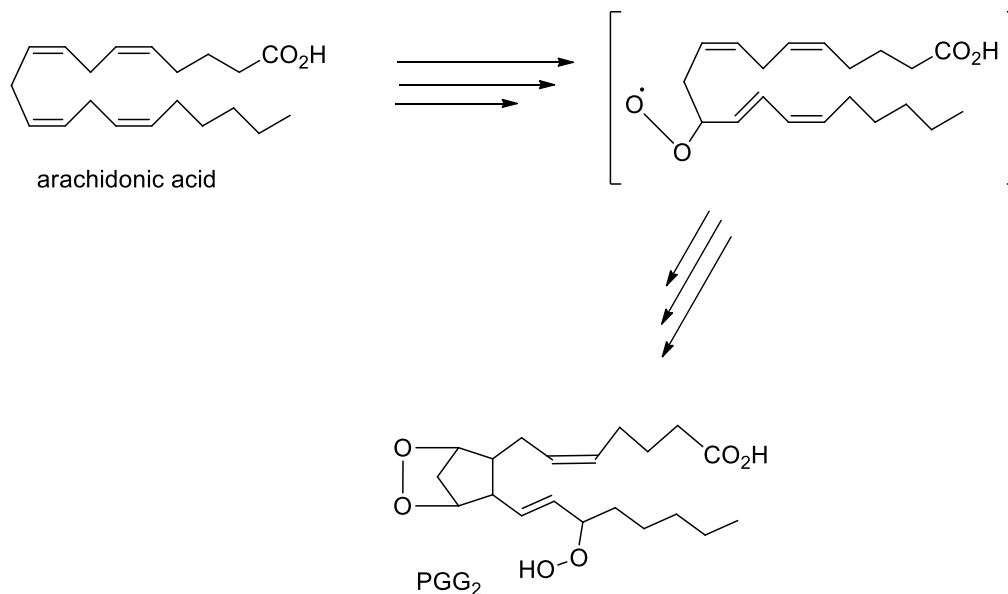


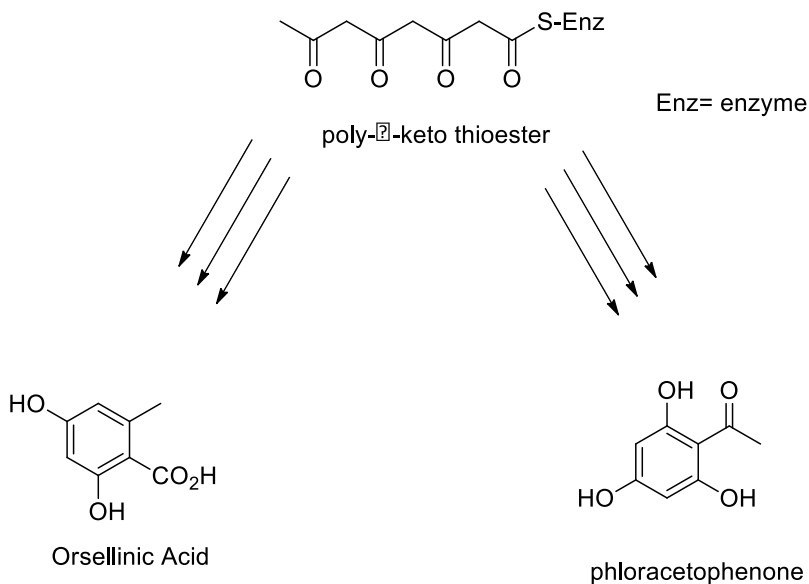
WORKSHOP, Chapter 24

Lipids

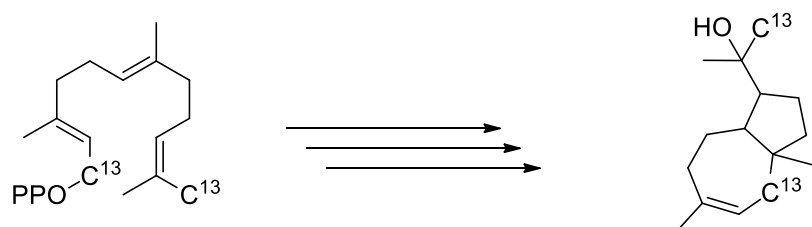
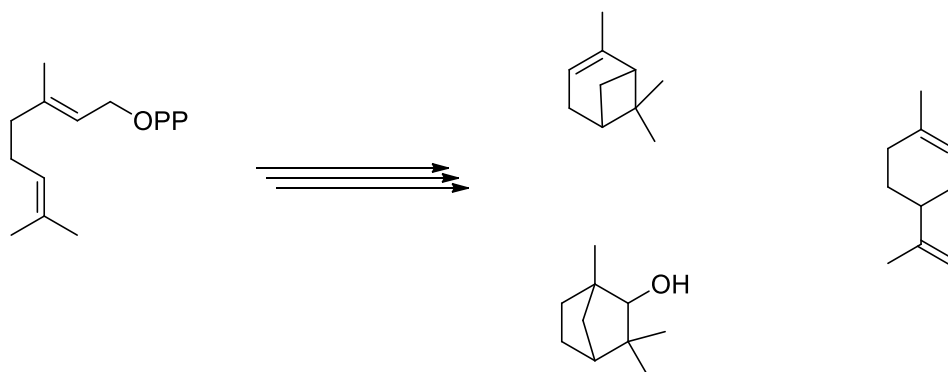
1. Try and devise a radical mechanism of how arachidonic acid folds up to PGG₂ with triplet oxygen. It WILL help to number the carbons.



2. Devise a mechanism how this poly- β -keto thioester closes to orsellinic acid or phloracetophenone. It will help to count the carbons and note where there is a new carbon-carbon bond.



3. Derive mechanisms for how the following terpenes fold up.



This has an unusual secondary carbocation intermediate.

4. What is the difference between fats, oils, waxes, and terpenes? What is the common biological starting material for these different classes of natural products?