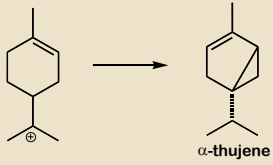
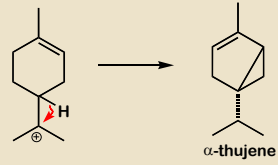




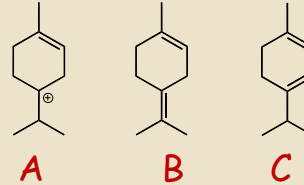
Propose a mechanism



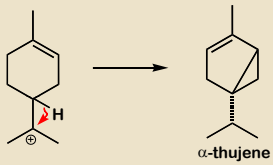
Propose a mechanism



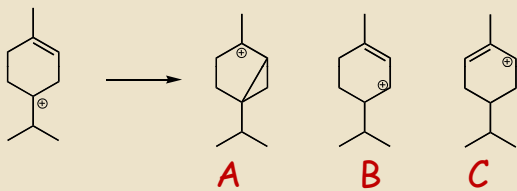
Propose next intermediate



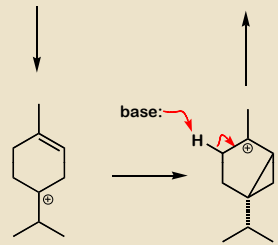
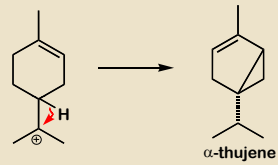
Propose a mechanism



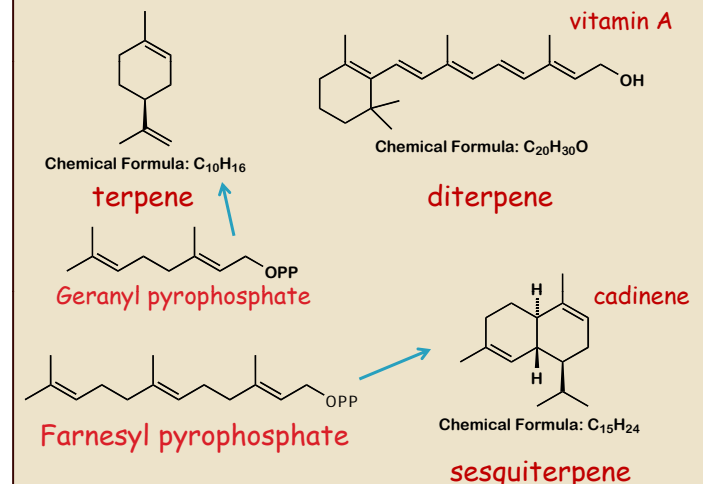
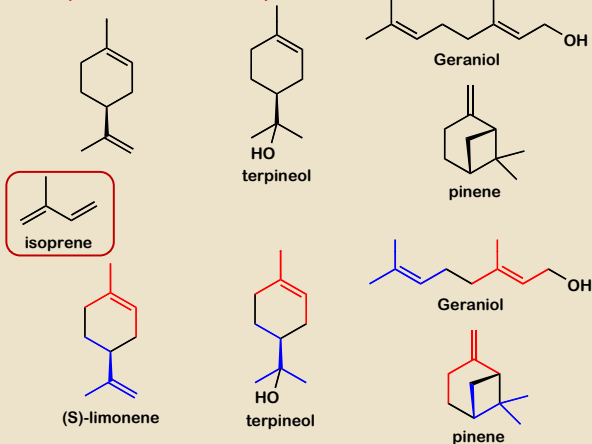
Propose next intermediate



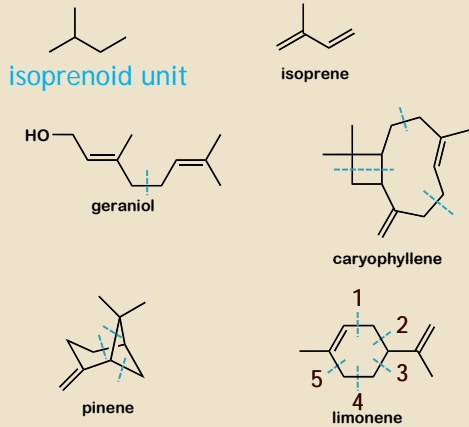
Propose a mechanism



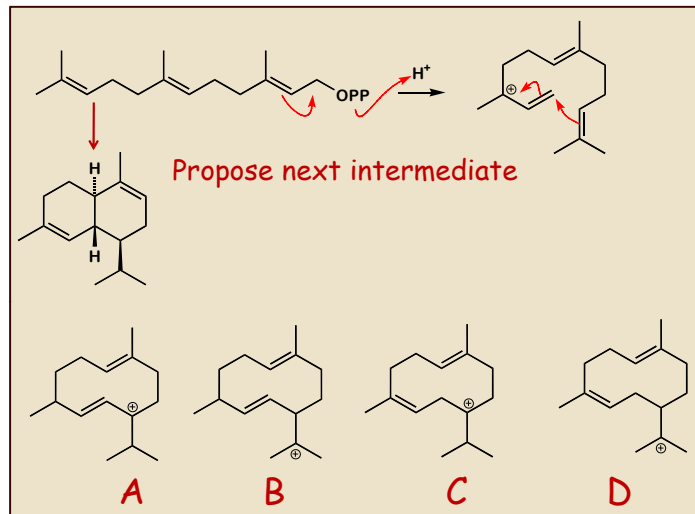
Terpenes or Isoprenoids



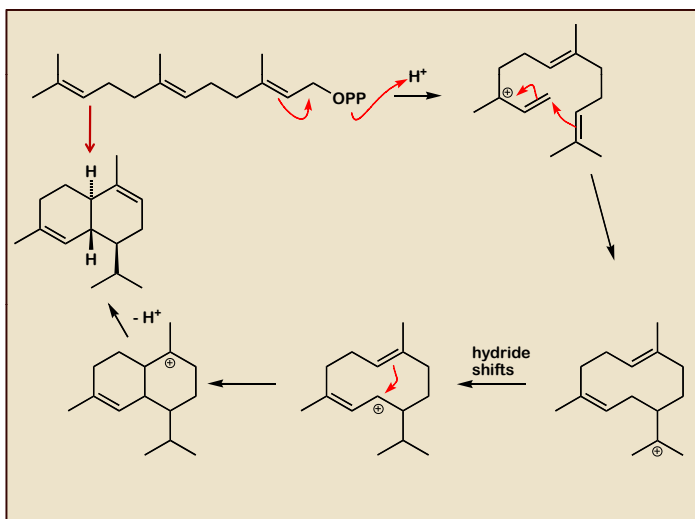
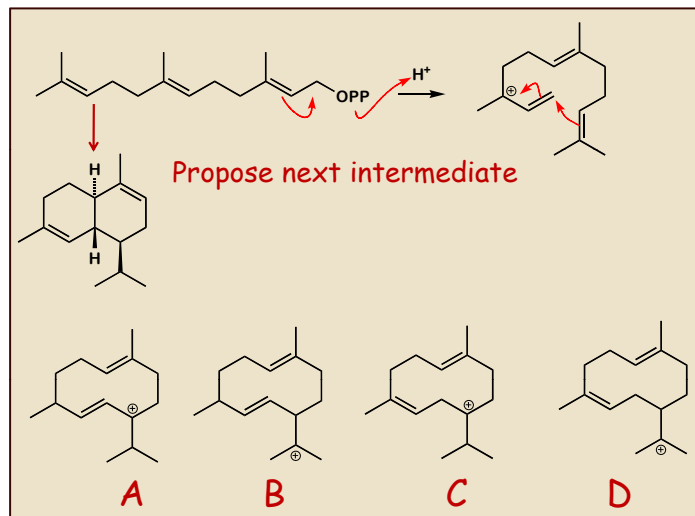
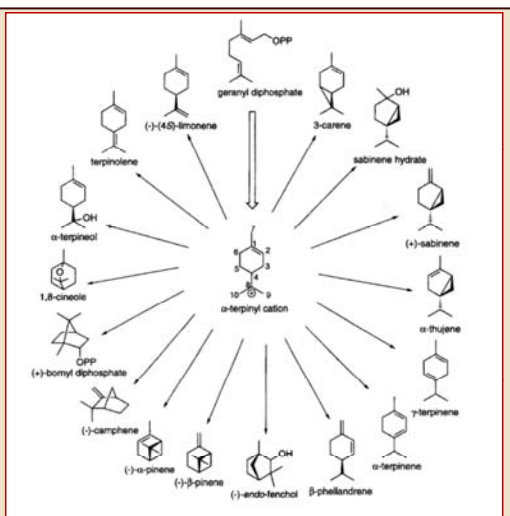
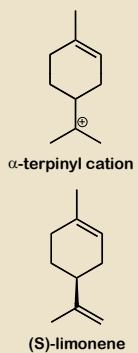
Identify the isoprenoid units in the following terpenes.



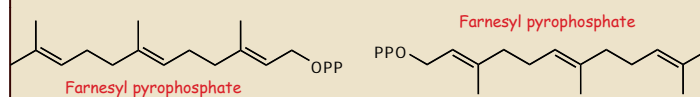
A = 1 + 4    B = 1 + 3    C = 2 + 3    D = 1 + 4    E = 2 + 4

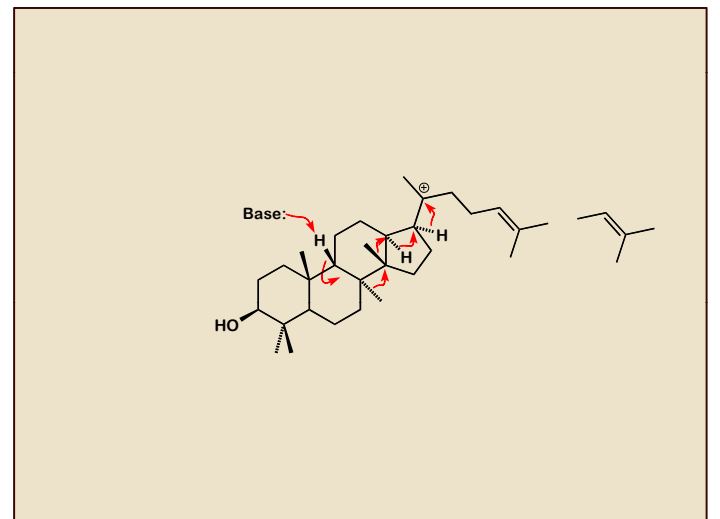
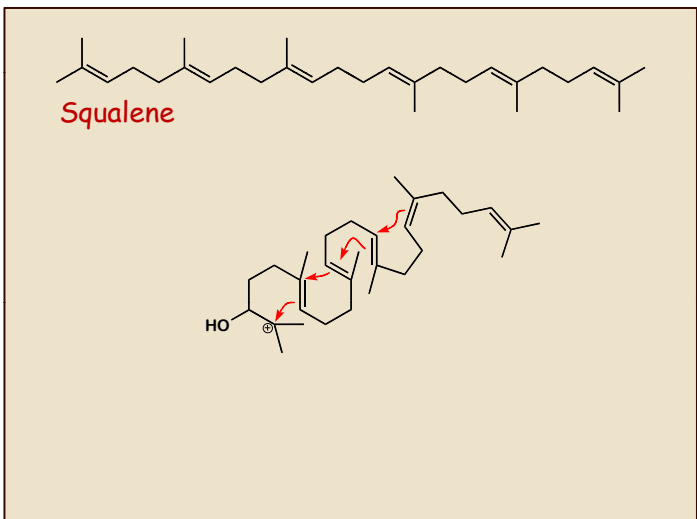
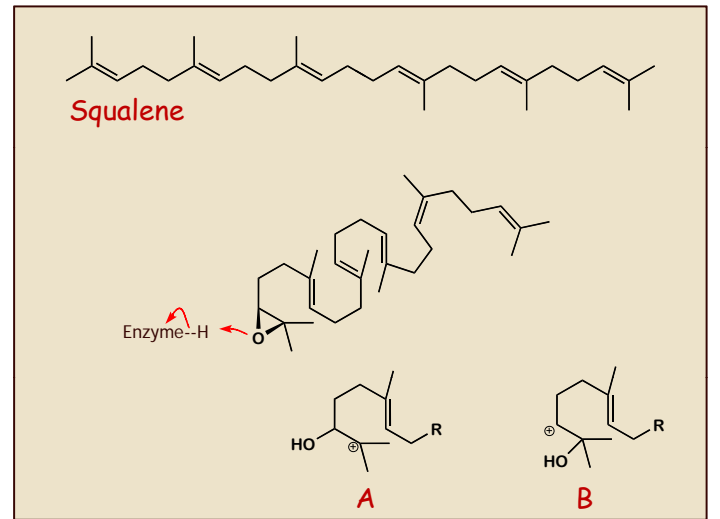
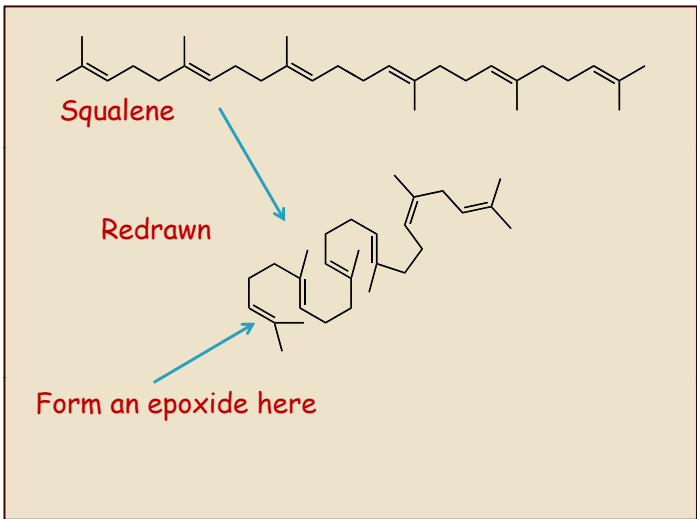
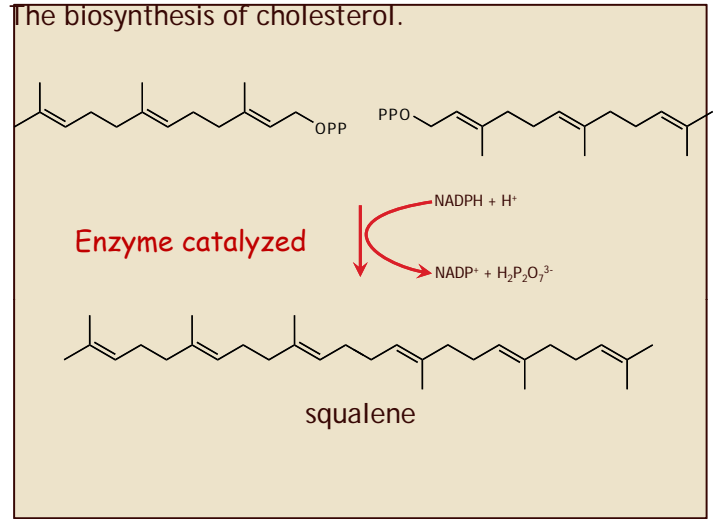
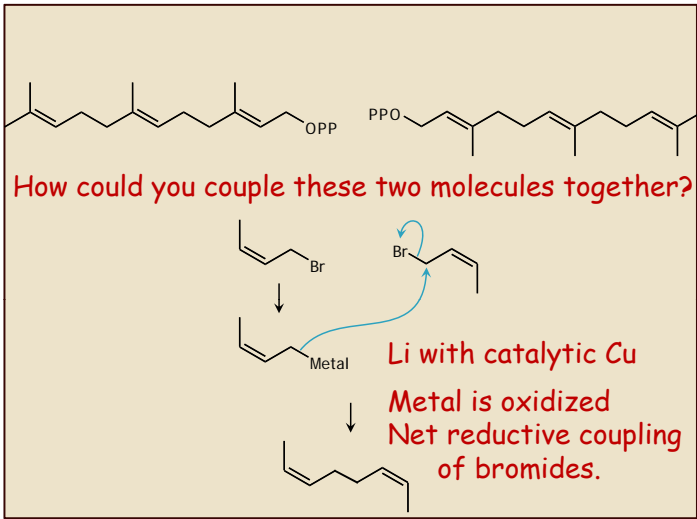


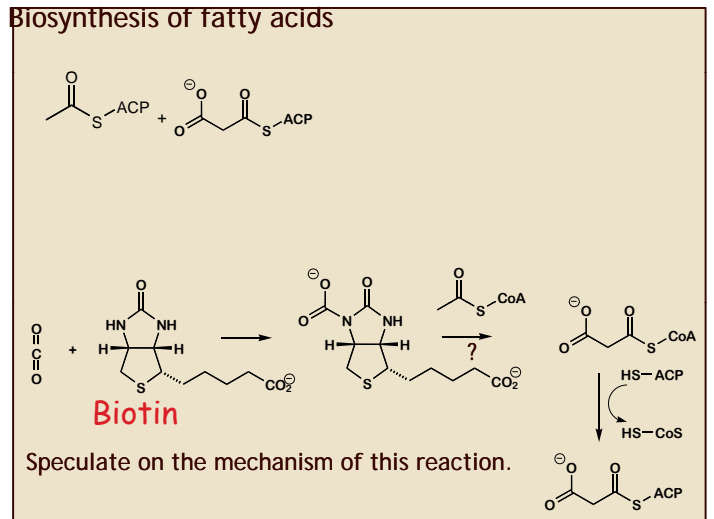
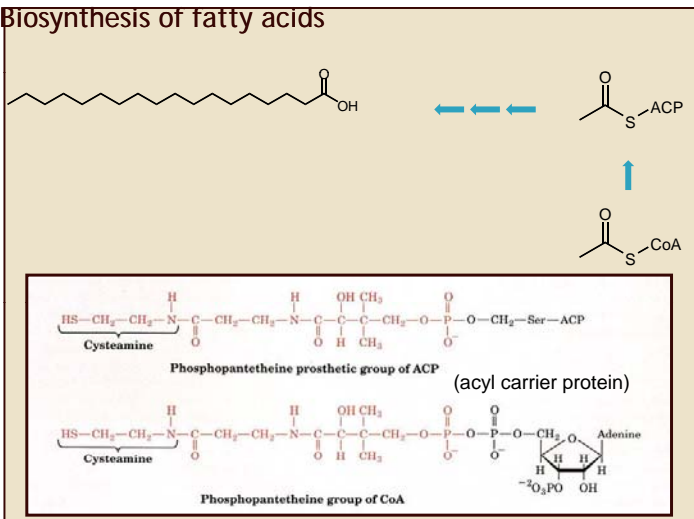
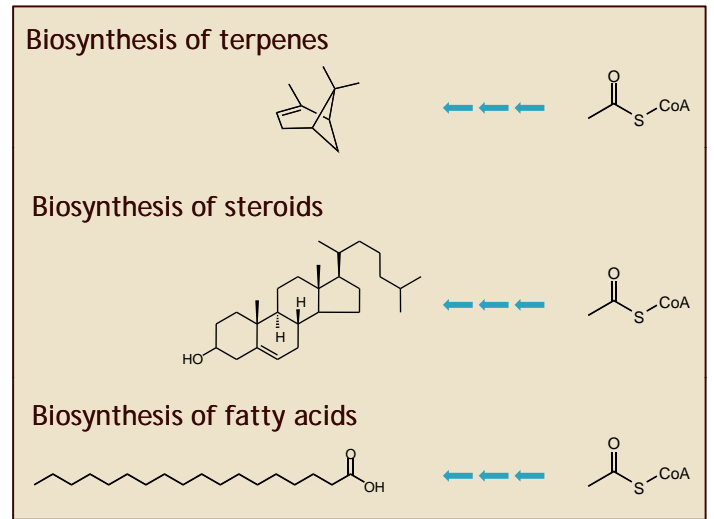
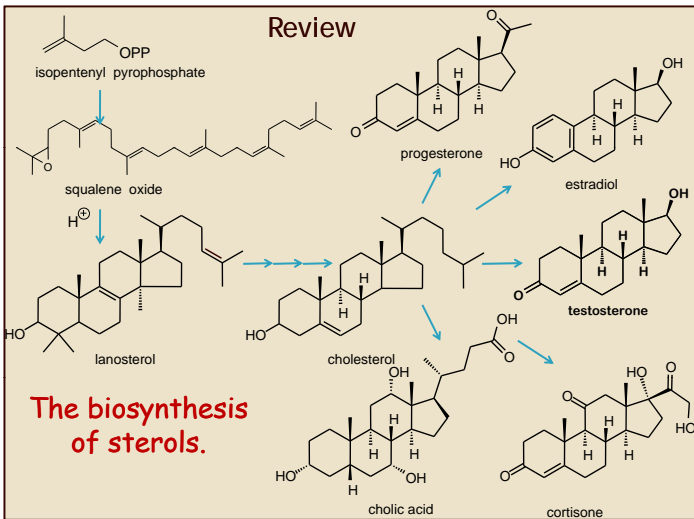
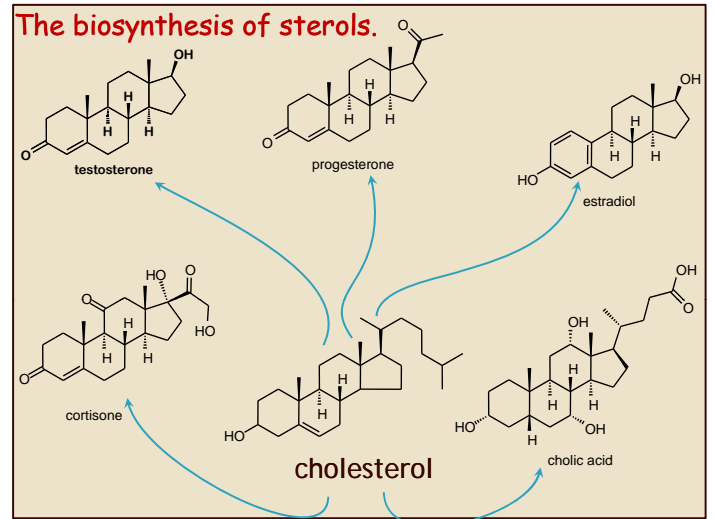
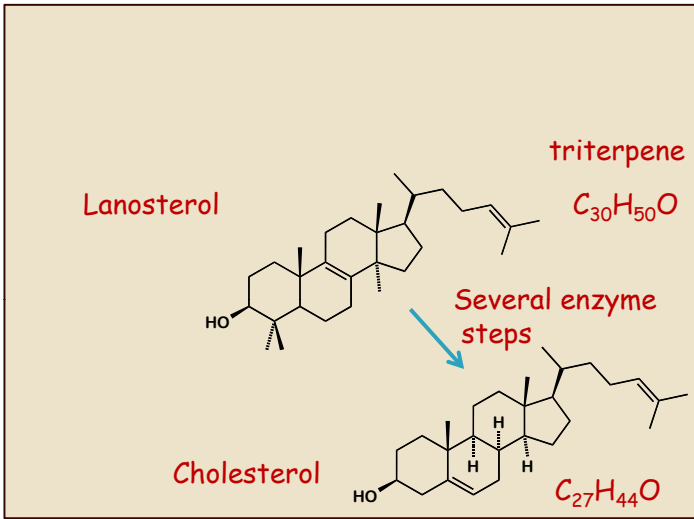
Terpenes

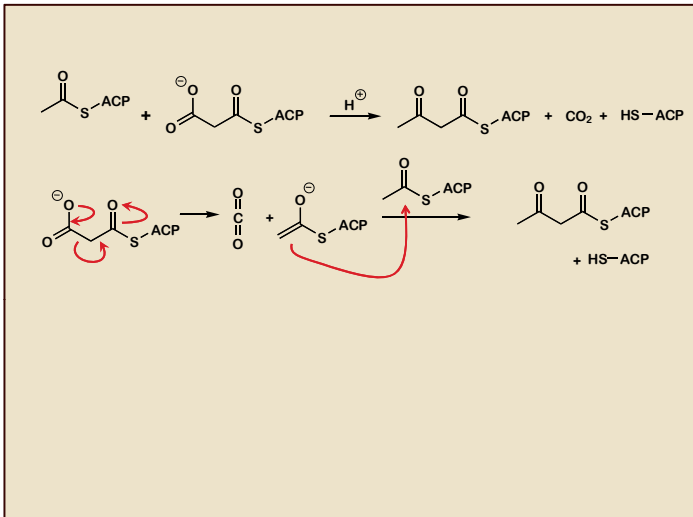


The biosynthesis of cholesterol.

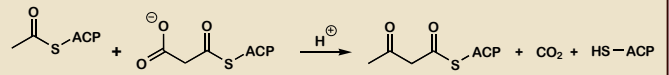






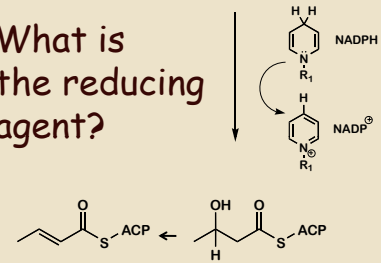


Propose a reaction mechanism for the C=O reduction.

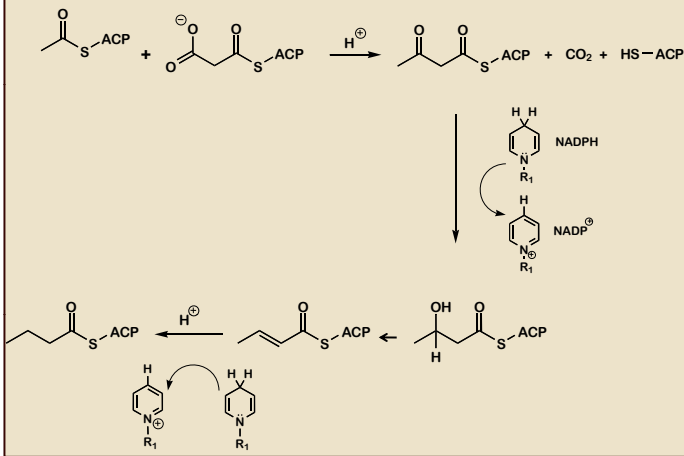


- A. H<sub>2</sub>/Pd
- B. NaBH<sub>4</sub>
- C. LiAlH<sub>4</sub>
- D. NAD<sup>+</sup>
- E. Co-A
- F. NADPH

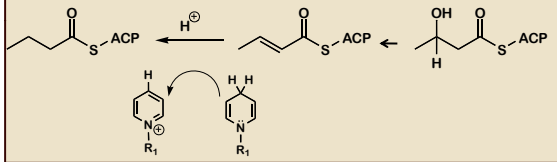
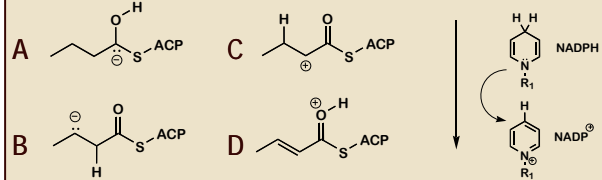
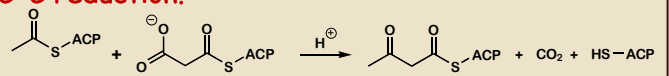
What is the reducing agent?



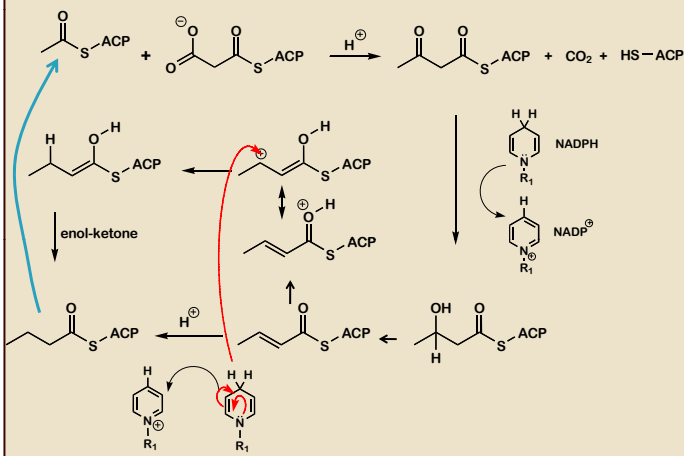
How do the C=O and C=C reductions occur?



Choose an intermediate in the mechanism for the C=C reduction.



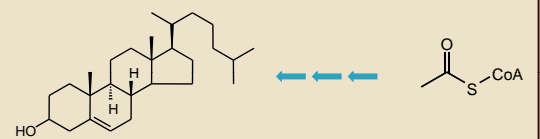
Propose a reaction mechanism for the C=C reduction.



Biosynthesis of terpenes



Biosynthesis of steroids



Biosynthesis of fatty acids

