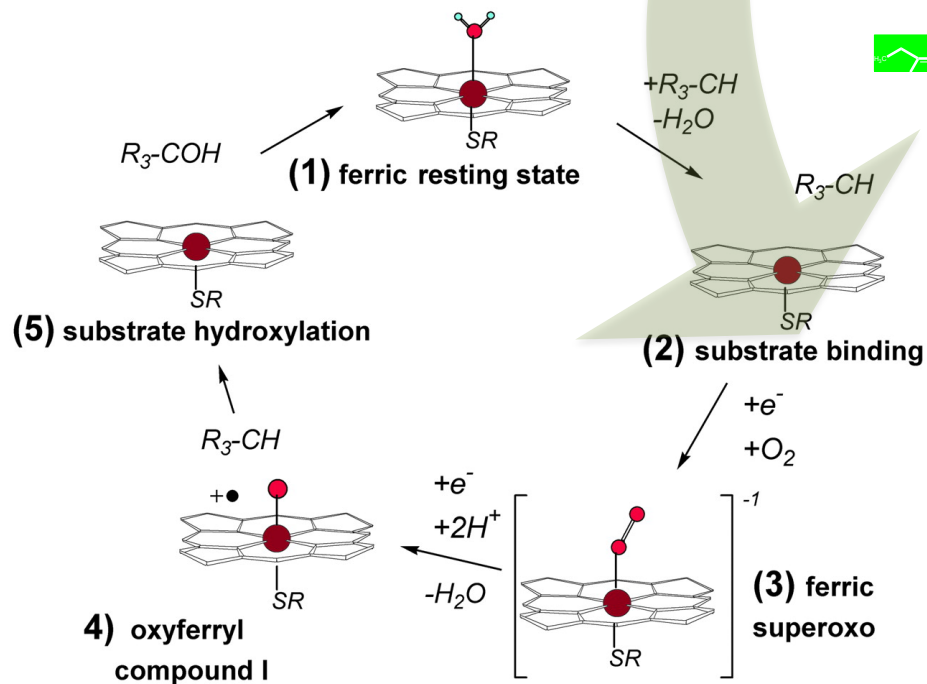
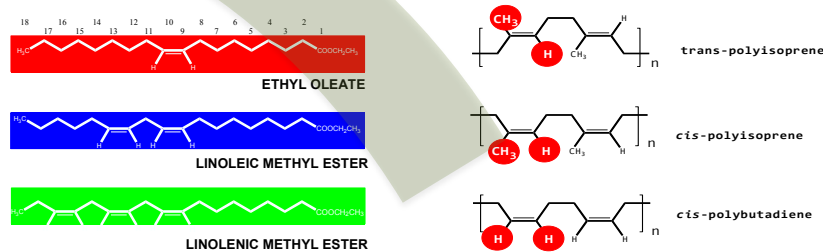


Biomimetic Catalysis



Common catalytic cycle in most cytochromes P450. **1**, Resting state with water coordinated to iron; **2**, substrate binding displaces coordinated water and first electron-reduction results in O_2 binding; **3**, second electron reduction and distal oxygen protonation liberates a water molecule and the active compound I; **4**, substrate (camphor in P450cam) hydroxylation and resting-state regeneration.

The substrates



The catalysts, the bases

