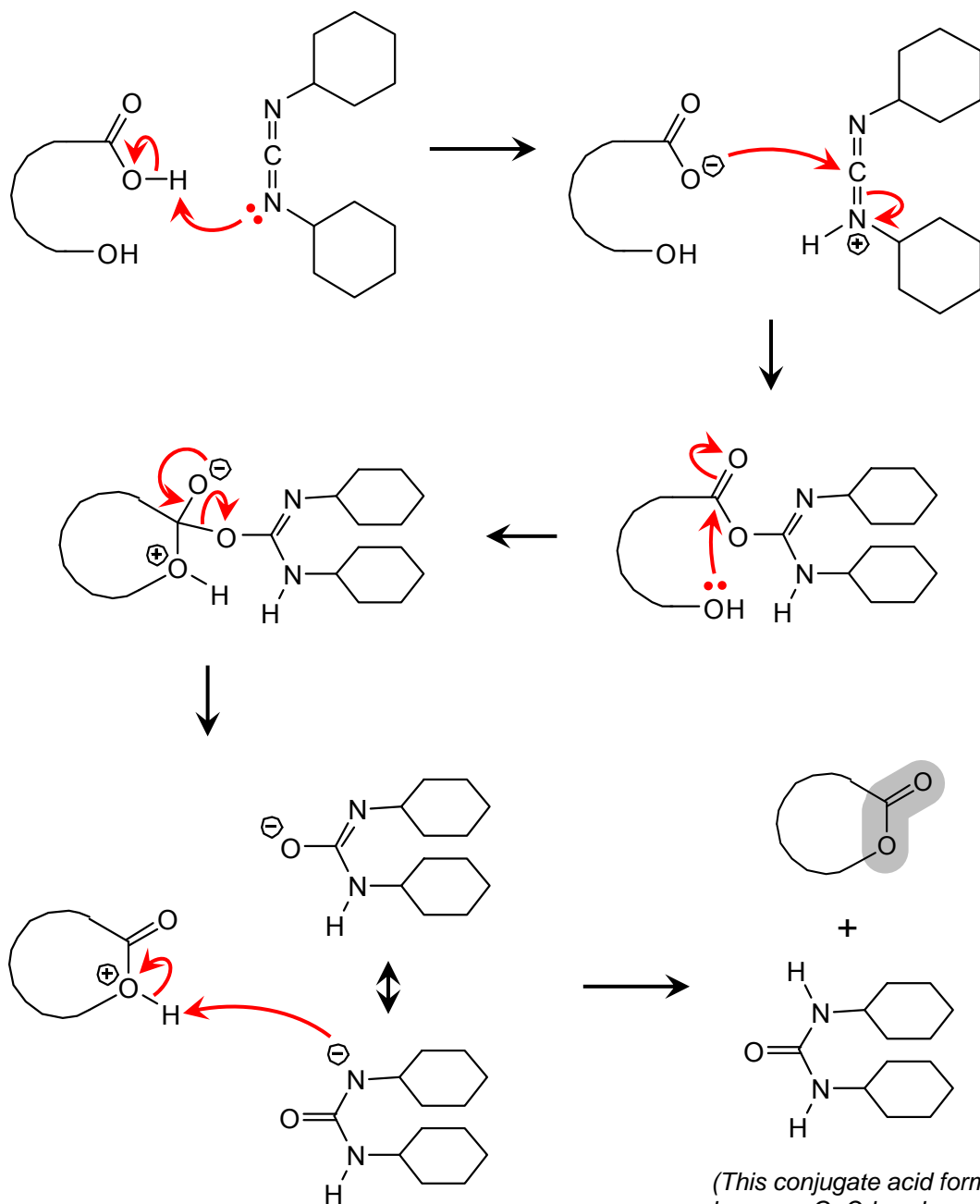


Workshop 13 Solutions
Mechanisms of Macrolactonization

- This mechanism comes straight out of lecture. DCC activates the $-\text{COOH}$ by converting the $-\text{OH}$ part to a good leaving group.



(This conjugate acid formed because C=O bond more stable than C=N bond.)

As I mentioned in class, Smith's beginning to this mechanism is incorrect; it starts with proton transfer, not nucleophilic attack.

2. Similar to DCC activation:

