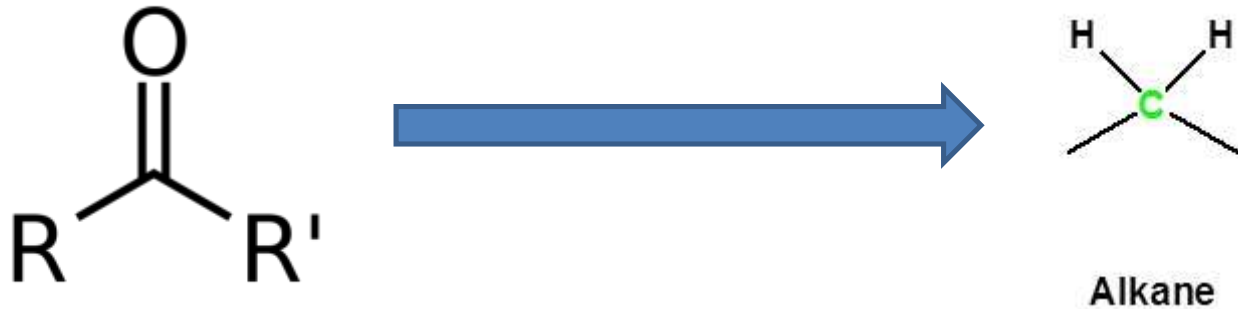


DEPTH OF BIOLOGY

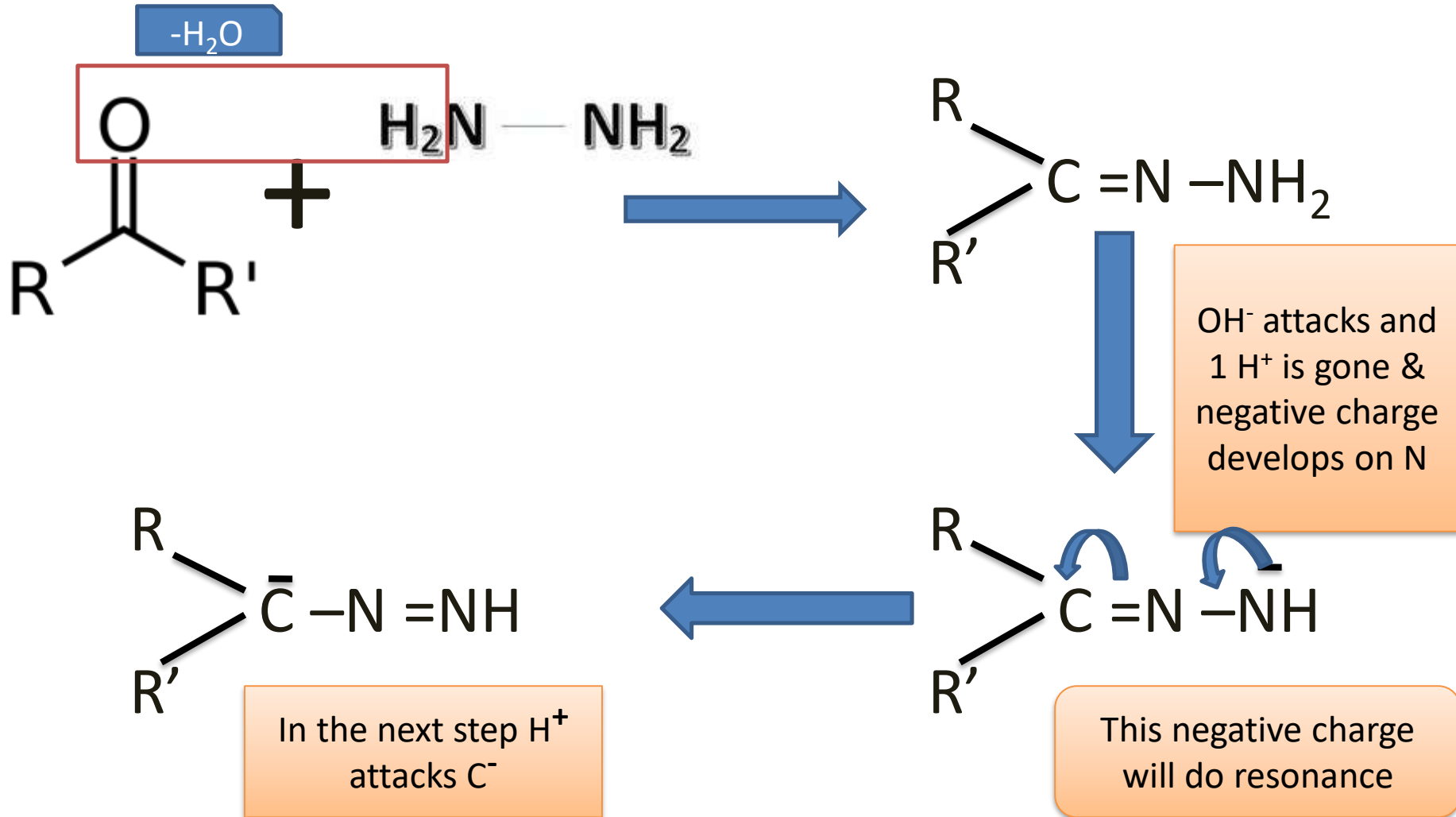
WOLFF KISHNER REDUCTION

DEPTH OF BIOLOGY

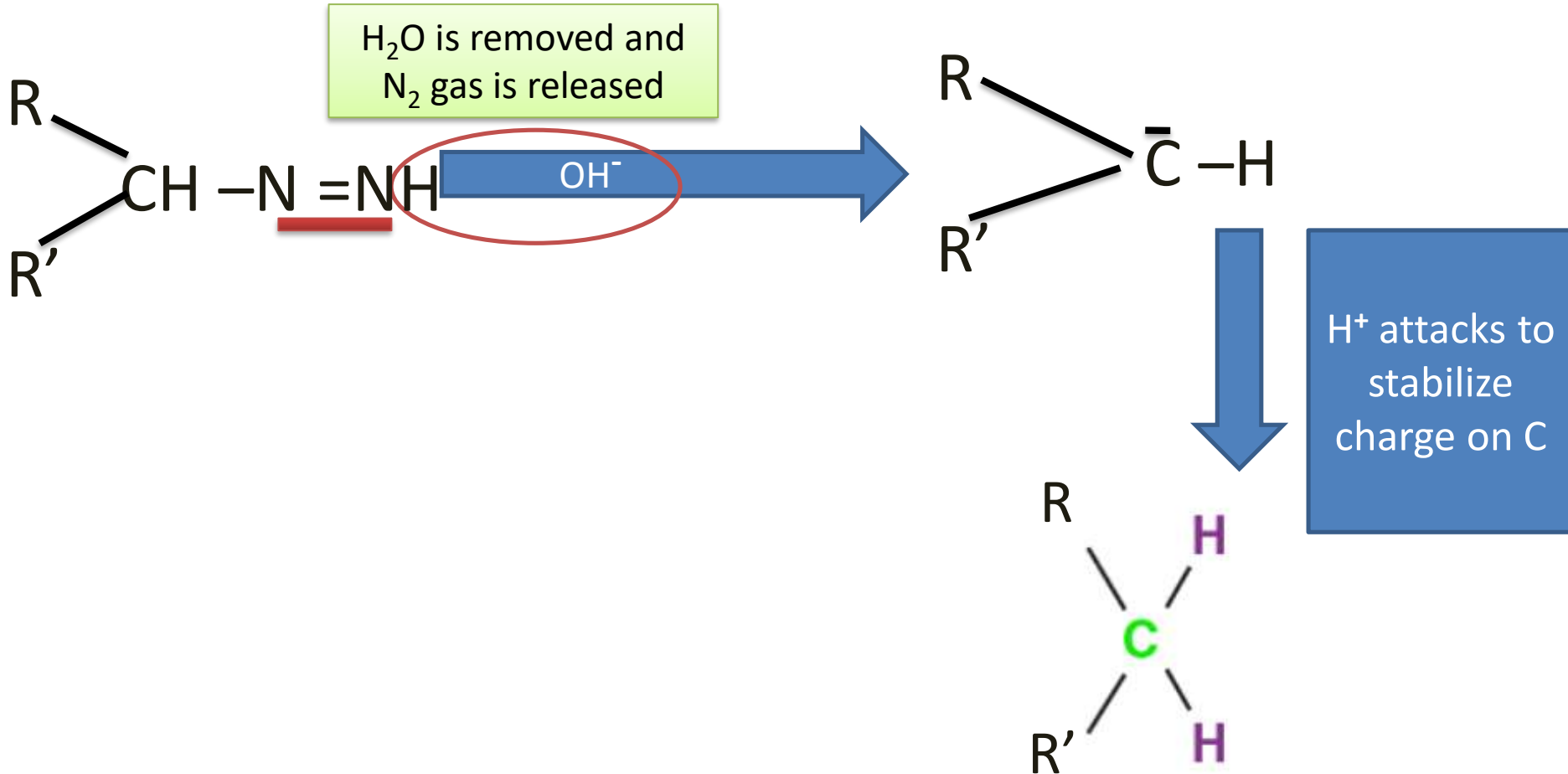
- In this reaction, aldehydes and ketones are reduced to alkanes in presence of following reagents-
1. Glycol
 2. KOH
 3. N_2H_4 – known as hydrazine



DEPTH OF BIOLOGY



DEPTH OF BIOLOGY



DEPTH OF BIOLOGY

- Ketone reacts with hydrazine and water is removed
- The new formed compound is attacked by OH^- which again removes one hydrogen atom leaving behind N with $-ve$ charge
- The negative charge performs resonance
- $-ve$ charge of Carbon is stabilized by H^+
- Again OH^- attacks removing one more hydrogen atom , also N_2 gas is released
- To stabilize the negative charge of carbon H^+ again attacks
- Final product alkane is obtained

DEPTH OF BIOLOGY

