Evidence for chemiosmosis

either:

① Break the outer membrane (and release the contents of the intermembrane space)
"mitoblast"

② Break the inner membrane (release matrix contents)

① e^- transfer in mitoplast doesn't produce ATP
∴ need intermembrane space

② If 'mushroom' proteins (ATP synthase) is removed, it doesn't produce ATP
∴ need ATP synthase

③ Add oligomycin, which blocks the flow of H^+ through ATP synthase = doesn't produce ATP
∴ to do with H^+ flow

④ pd across membrane is ≈ -200mV
⇒ it is more negative in the matrix (since H^+ is pos)

⑤ low pH in intermembrane space
= since there is a lot of H^+