

# 1 | DNA Extraction

#flo

- DNA Extraction
- Two main steps
  - Breaking the cells open chemically, by breaking the membrane of the cell. Some substance/method also has to break open the nucleus after the previous one is done. => (Of course, you could also acoustically, by ultrasonic waves to break, or mechanically, by like breaking breaking it)
    - \* The chemical usually used to do this is a **detergent**, like soap
    - \* Lipid bi-layer's hydrophobic tails becomes attracted to the detergent, and it gets ripped apart
    - \* Or, changing the pH of the solution may also be one method by which this could take place
  - Then, DNA is separated from other proteins & debris => This is usually done with either enzymes or using heat
- How the QuickExtract possibly work
  - A **detergent** breaks the outside lipid layer and the nucleus
  - Then, a **protease** chews up the enzyme and other random proteins
  - Finally, the whole thing's heated to make sure that the only thing left is the DNA