

GO ANYWHERE MOLECULAR DIAGNOSTICS

MOLECULAR BIOMARKERS MADE UP DNA OR RNA STRANDS ARE A POWERFUL WEAPON IN DETECTING DISEASE. USING "SNAP" AND SOME BASIC TOOLS FOUND IN YOUR LOCAL CAMPING STORE AND WIDELY AVAILABLE REAGENTS, WE'LL SHOW YOU HOW TO AMPLIFY THESE MARKERS IN A CUP.

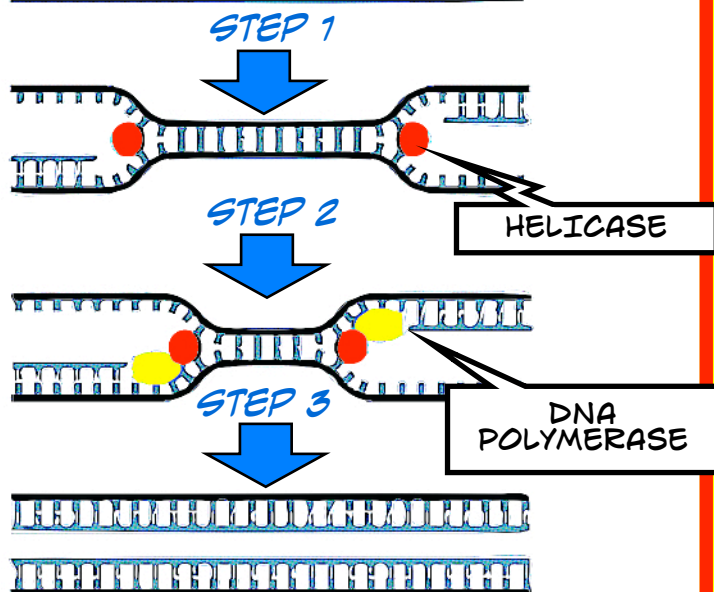
"SNAP" OR THE SYSTEM FOR NUCLEIC ACID PREPARATION ALLOWS FOR SAMPLE PREPARATION AT THE POINT OF CARE USING ONLY HAND GENERATED POWER....

USE "SNAP" TO EXTRACT YOUR DNA OR RNA FROM THE HUMAN SAMPLE.

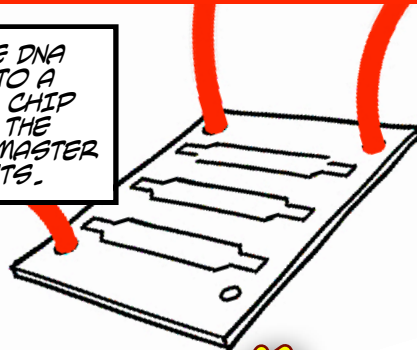


INSIDE THE CHIP!

HELICASE DEPENDENT AMPLIFICATION



TRANSFER THE DNA SAMPLES INTO A MICROFLUIDIC CHIP ALONG WITH THE AMPLIFICATION MASTER MIX REAGENTS.

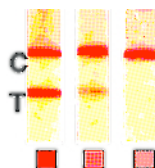


ADD HEAT!

DNA AMPLIFICATION REQUIRES EVEN HEAT. GENERALLY WE WOULD NEED AN INCUBATOR. IN OUR CASE, A PERFECT INCUBATOR IS IN THE FORM OF TOE WARMERS.

DETECTION!

READOUT TAKES PLACE ON A PAPER STRIP, EASILY VISUALIZED WITHOUT INSTRUMENTATION.



- Strong positive
- Fair positive
- Weak positive
- Negative or not tested

PUT IT ALL TOGETHER FOR AMPLIFICATION IN THE STYROFOAM CUP.

