

Module 3: Assignment

- Go to the PDB (<http://www.rcsb.org/>) and use the 3D Structure Viewer (<http://www.rcsb.org/#Category-visualize>) to visualize the structure of your favorite protein. Explain its structure-function relationship.
- Write a single page explaining how PCR works and discuss an application
- Finish building DIY PCR machine.
- Plot temperature vs. time (over ~10 minutes) of each water bath to demonstrate you can control the environment long enough to get enough cycles to amplify.
- Perform amplification of DNA with your machine!
- Verify that DNA was amplified by gel electrophoresis (should be ~1300 bp) by comparing to ladder.