

# Video game playing citizen scientists

If we want to address the many challenges facing the world, we're going to need to tackle them from many different angles—not just using traditional means. For example, can the brainpower of *video game playing citizen scientists* tackle critical problems in computational biology? Yes! Players of the worldwide online protein-folding video game Foldit—most of whom have little or no prior biochemistry experience—have uncovered knowledge that eluded scientists for years, contributing to several scientific discoveries by playing a video game! Rather than solving problems with a purely computational approach, combining humans and computers can provide a means for solving problems neither could solve on their own.

## Biohacking Village – Pre-conference Foldit Challenge

Complete these tutorial levels by August 10<sup>th</sup>, 2023

1) Sign up on the Foldit website: <https://fold.it/play>

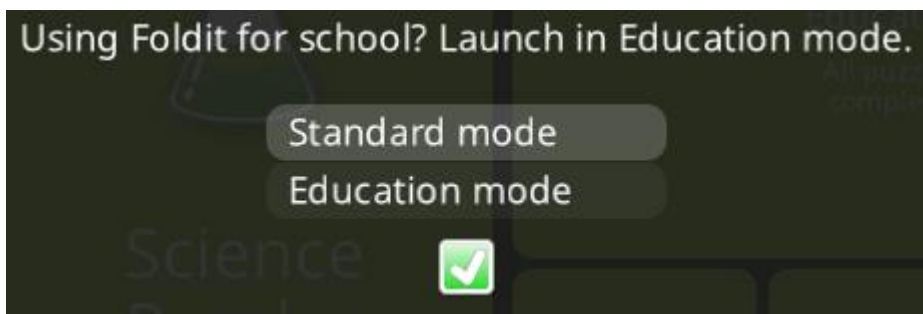
2) Complete all 3 steps and **Download** the game

3) Launch Foldit making sure to click "**Play Online**" otherwise your work will not be recorded!

4) Enter your username and password from Step 2 above



5) Select **Standard mode** (*Education mode* will lock the online chat)



5) Start by playing the **Campaign Mode** in the top left (unless you prefer to learn more of the biochemistry as you play, in which case you can select **Education** in the top right)

6) **Play through the introductory tutorial levels at your own pace.**

If you get stuck, you have many options:

- Reset the puzzle and start over (this should be your first solution anytime you have trouble)
- Check out the Foldit wiki for help... it has detailed videos for how to complete each level: <https://foldit.fandom.com/wiki/Campaign>
- Ask other players for help in Foldit's in-game IRC chat: [foldit.fandom.com/wiki/IRC\\_Chat](https://foldit.fandom.com/wiki/IRC_Chat) or on Discord: <https://foldit.fandom.com/wiki/Discord>