Timko-&LAB Development of BioElectric Scaffold for Hybrid Brain Tissue

Zainab Olushoga, Diamond Mensah, Enrique Rodriguez

Dr. Brian Timko, Dr. David Kaplan, Marilyn Kelley, Ye Lim Kim

With Guidance From:

The Brain is Like a Computer...



They run using electricity to save memories, monitor our surroundings, and they can even learn new things!

... They are both Complex

And Are Very Hard to Study



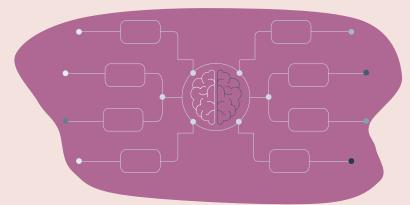
So, Scientist Make Models to Study Hard Organs





We fill these models with brain cells, so it acts like the real thing~

But sometimes it's hard to track how electricity in the brain changes ...



Especially when it is hurt/sick and this makes understanding the brain hard

We want to make a tiny device that we combine with the brain model

