Senior Design 491 Weekly Report 8

Date: 11/8/2017

sdmay18-10: Patch-clamp microchip testing circuit interface

Client & advisor : Que Long Team member & Roles :

- ---- Chenhang Xu team communication leader
- ---- Daiyuan Ding team webmaster
- ---- Li Qian team leader & time keeper
- ---- Junhua Hu Team designer
- ---- Ningyuan Zhang team programmer
- ---- Yigao Li team test leader

Weekly summary:

Regular meeting with advisor and testing the PC-ONE patch-clamp with several different settings to test and collect silicon DMEM data.

Past Week Accomplishments

Member name	Accomplishments	
Chenhang Xu	Meet with professor and give the presentation. Finish the pc-one set up and and start to do the test.	
Daiyuan Ding	Regular meeting with advisor. Start the speed-test module and measurement.	
Li Qian	Working on the testing of the PC-ONE and collect tesing data. Meeting with advisor.	
Junhua Hu	Preparing to use PC-ONE.	
Ningyuan Zhang	Continuing testing the interface prototype and collecting data. Meeting with advisor.	
Yigao Li	start to use the pc-one to do the test after presenting the steps to professor and get his admission	

Pending issues

Member name	Accomplishments
Chenhang Xu	Do the test and find the raw data, which need to compare the given data.
Daiyuan Ding	Need to solve the measurement noise.

Li Qian	Try to find out the setting that fit the test.	
Junhua Hu	Need more time investigate PC-ONE to work.	
Ningyuan Zhang	Still trying to find the most stable setting to start the test on neurons.	
Yigao Li	be familiar with the testing process and find the stable way to get accurate data	

Individual contribute

Name	Individual Contributions	Hours this week	Hours Cumulative
Chenhang Xu	We need to do the serval test and get the average data for our final data. In this case, I will do one of them. Meet with the professor.	6	17
Daiyuan Ding	Finshing setting up equipments and do the test on the speed-test module. List the problems we are facing.	5	28
Li Qian	Testing the PC-ONE and get testing data. Regular meeting. Draft weekly report.	4	28
Junhua Hu	Getting power generator to run the PC-ONE, but only run the speed-test. Need more understanding to work with other modes.	4	26
Ningyuan Zhang	drafted the weekly report, kept testing the interface, met with advisor.	5	34
Yigao Li	Do some parts of the test and record the data. Meanwhile, meeting with professor to report our data.	5	15

Comments and Extended Discussion

This week we did not start anything new according to our project, because we are entering the phrase with numeric tests to get the reliable data.

Plan for Coming Week

We are planning to continue test the prototype untile we find the suitable setting.

Summary of Weekly Advisor Meeting

In this meeting, we showed advisor the plan that we were making to prepare for the final presentation. And he gave us several advises of improving the quality of our presentation and ppt slides.