

Senior Design 492 Biweekly Report 4

Date : 3/8/2018

Project title : 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

---- Ningyuan Zhang - team programmer

---- Yigao Li - team test leader

Weekly summary :

Had the the biweekly meeting with advisor and graduate students. Discussed the plan during spring break, and made meeting schedules to enhance the functionality of the room noise reduce device. Held regular group meeting beyond group members.

Past Week Accomplishments

Member name	Accomplishments
Chenhang Xu	Keep doing test on the living cell. Solve the problems happened during the test. We've got the result for some samples.
Daiyuan Ding	Working on the test the reliability of the living cells. Found a better method to reduce the room noise. Discuss the future schedule and prepare the presentation.
Li Qian	Still working on the test on living cell and get some results. Finish the setup to reduce most of the noise.
Ningyuan Zhang	Kept reading related documents about microchip and updating the status of our reports. Discussed the schedule and content of our next presentation.
Yigao Li	studying some material and try to resolve issues happened in the test.

Pending issues

Member name	Accomplishments
Chenhang Xu	Keep collecting data and keep connecting with our advisor to fix the problems happen during the test.
Daiyuan Ding	Working on the measurements and collecting data, try the new way to reduce the room noise. Need to fix the problem about the reliability of living cells.
Li Qian	Keep doing the test in different samples and situations, and compare the results.
Ningyuan Zhang	Drafted the biweekly report. Collected the experimental data from regular tests.
Yigao Li	Comparing the results in different situation and collect data.

Individual contribute

Name	Individual Contributions	Hours these 2 weeks	Hours Cumulative
Chenhang Xu	Biweekly meeting with our professor and advisor. Get the right current plot of the living cell. Try to apply different voltage on it then we can compare them together.	8	30
Daiyuan Ding	Working on the test the reliability of the living cells. Meet with advisor and discuss about the future schedule and prepare the presentation.	8	30
Li Qian	Having the biweekly	6	34

	meeting with advisor and graduates. Finish the set to reduce the most of the noise. Get some results from the samples.		
Ningyuan Zhang	Drafted the weekly report. Met with advisor to discuss the content and plan for next presentation. Discussed the details of micro chip design with group members during regular group meeting.	8	30
Yigao Li	met advisor regularly to talk about the details for presentation. Having a break on reducing noise.	8	20

Comments and Extended Discussion

N/A

Plan for Coming Week

For the next week, we need to go to lab to run some stability tests with graduate students to ensure our noise reduce device working properly.

Summary of Weekly Advisor Meeting

Discussed the process we have got and the preparation of the next coming in class presentation. We also summarized the achievements we have got so far so we may be able to show some demo cases during the presentation.