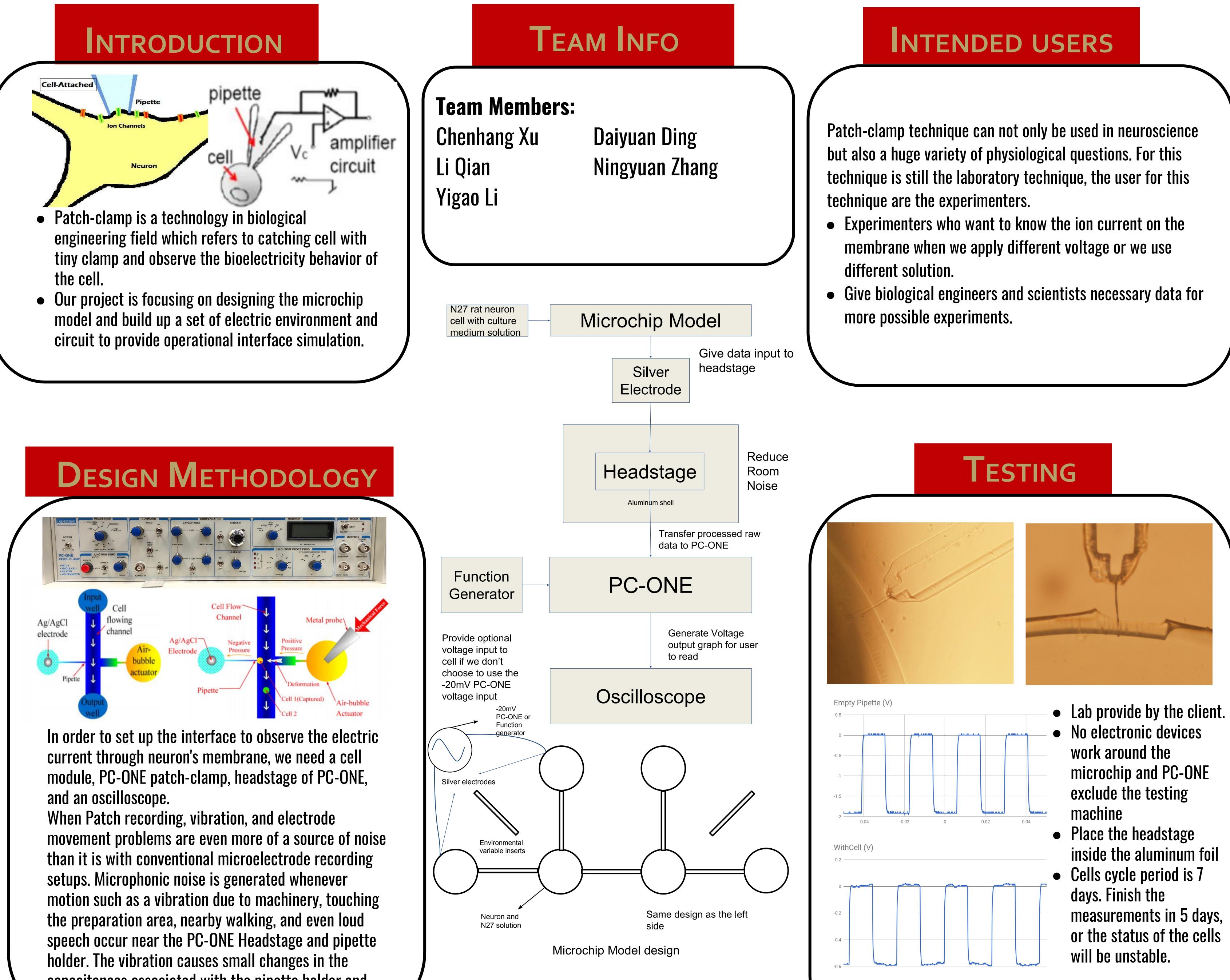


Patch-Clamp Patch-clamp microchip testing circuit interface CLIENT / ADVISOR NAME: DR. QUE LONG



capacitances associated with the pipette holder and Headstage input circuitry.

**TECHNICAL DETAILS** 



## **Functional requirements:**

- Pipette could catch neuron inside microchip model.
- Current could be observed through PC-ONE interface.
- Neuron must be alive during operation.
- Noise should be reduced to an acceptable

## range.

• Data Reading and Calculation should be correct.

## **Non-functional requirements:**

- We need to strictly follow the equipment manual to operate all operations to fulfill the project requirements.
- We have to strictly follow the safety guide of labolarity to make the experiment process safely.
- We have to cite every sources we used during the development, and ensure that the project is totally independent.
- Plan regular meeting with client to make sure the project is meeting the requirement.
- Timely maintain the project to avoid critical bugs.
- Refresh reports and document on time to meet current process.

- Be honest and realistic in stating claims. or estimates based on available data.
- Care about the human health.
- Use the resource that can be recycle used.
- The gap between neuron and tip of pipette is less than 150 um
- All tests need to be done in 5 days
- All data need to be collected together