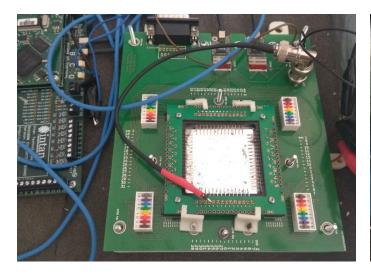
Custom Electrophysiology Setup How-To Guide Leonardo Garma October 2019

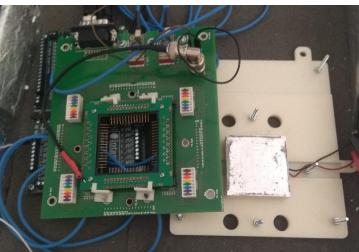
leonardo.garma@gmail.com

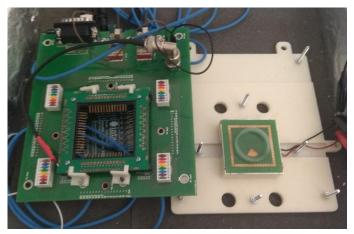
Reference material:

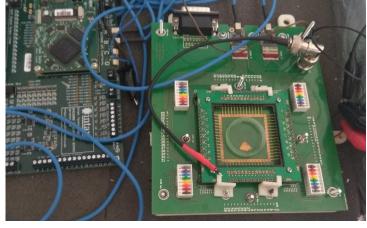
- INTAN documentation and manuals
 - o http://www.intantech.com/files/Intan_RHD2000_eval_system.pdf
 - http://www.intantech.com/files/Intan_RHD2000_series_datasheet
 .pdf
 - o http://www.intantech.com/downloads.html
- Original paper
 - https://journals.plos.org/plosone/article?id=10.1371/journal.pone.
 0214017
- Data processing example script
 - o https://github.com/leo-gg/INTAN

Step 1: Lift the PCB, place your MEA in the holder and put the PCB back in place

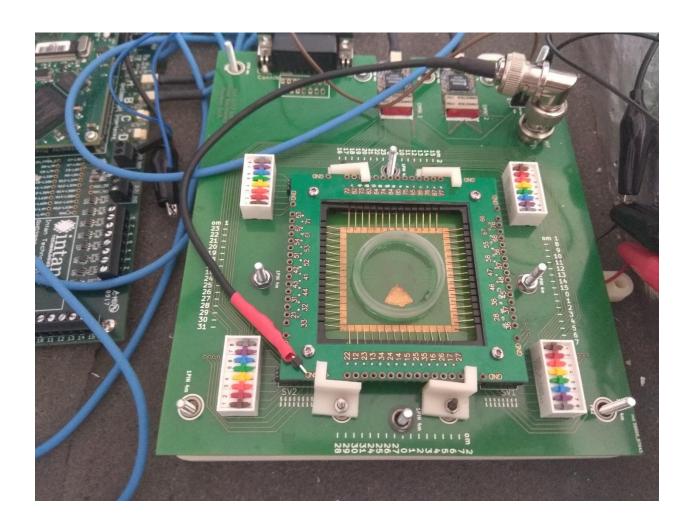




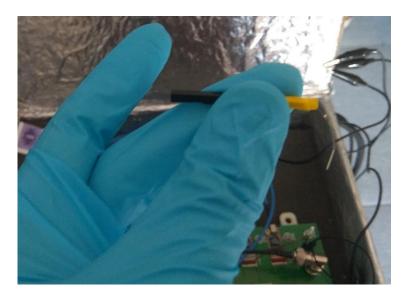




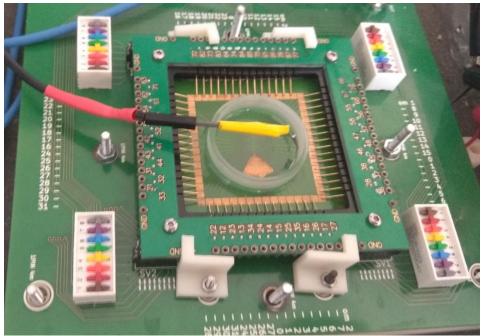
Step 2: Fix the PCB in place using the 3mm screw nuts



Step 3: If using a external reference, connect a *clean* reference and place it in contact with the media in your MEA



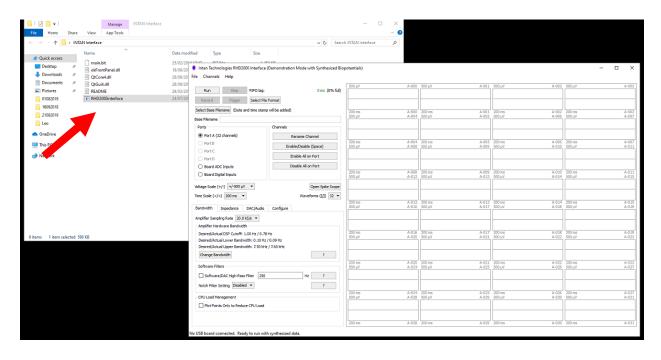




Step 4: Switch on the power supply for the FPGA. If you need to keep your cells warm, don't forget to switch on the power supply for the Peltier!



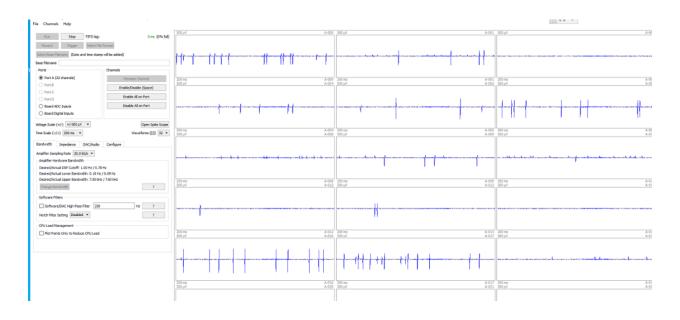
Step 5: Start the INTAN interface software



Step 6: Set your recording parameters and output filename



Step 7: Press Run to see the live signal or Record to start a recording



Step 8: Clean up!

- Stop the recording
- Switch off the equipment
- If you used an external reference, clean it and put it back in place
- Unscrew the PCB and store the nuts
- Retrieve your MEA