**MIT HSSP: “The Neuroscience of Memory and Intelligence”**

**Permission form for muscle-controller interaction demonstration on 4/8/2023**

Dear student,

We hope you are having fun at MIT! We have a very cool demonstration planned for Saturday, **4/8/2023** that is based on the idea of “mind control”. We will be using a “Human-Human Interface” muscle-controller set from the company Backyard Brains (<https://backyardbrains.com/products/HHI>) to record and stimulate electrical activity in the muscles. Because this demonstration uses electrodes and mild electrical stimulation, we need parent / guardian permission if you want to participate.

In this demonstration, one person will act as a “controller” and one person will act as a “receiver”. Both people will have electrode pads (basically, stickers with a metal bit) on an arm, connected with wires to the HHI kit. The “controller” can flex their arm, transmit the electrical signal through the kit, and make the “receiver” flex their arm without consciously trying to! It’s a cool demonstration of electrophysiology, and it’ll be fun to watch your teachers mind-control each other.

**We want to open up this demonstration to students directly, but we want to warn you about potential risks associated with the demo.** Because we are using electrical stimulation, there may be some minor pain associated with being a “receiver”, but this is no more painful than a mild static shock (like in the winter). The amount of electricity delivered to “receivers” is increased little by little up from 0 up to the smallest amount needed to contract your muscles. **Students may volunteer to be a “controller” or “receiver”, but ONLY with parent / guardian permission, and may stop volunteering at ANY time for ANY reason.**

If you have any questions, please feel free to ask us during class! Backyard Brains has more detailed methods and background if you are interested in learning more at:<https://backyardbrains.com/experiments/humanhumaninterface>

**Check one box only:**

|   | I do **NOT** have permission to be a “receiver” in this demonstration. |
| --- | --- |
|   | I have permission to be a “receiver”. **I understand and accept the potential for minor pain associated with electrical stimulation.** |

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Student Name Student Signature Date

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Parent / Guardian Name Parent / Guardian Signature Date

Dear student,

We are excited for the opportunity to show you MIT’s Brain and Cognitive Sciences building, where we teachers work and study the brain. On Saturday, **4/8/2023**, we plan on leaving from our regular classroom and walking over to Building 46, where we will form small groups and tour laboratories together.

During the tours, you will see equipment and real data that we use on a daily basis! After the tours, we will return to our regular classroom together. To make sure that everyone is on board with this plan, please have your parent or guardian fill out this permission form and return it to us by the last class on **8/18/2019**.

If you have any questions, please feel free to ask us during class!

**Check one box only:**

|   | I WILL attend the tour |
| --- | --- |
|   | I WILL NOT attend the tour |

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Student Name Student Signature Date

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Parent / Guardian Name Parent / Guardian Signature Date