**JoVE51947R1 Revision Corrections**

**Editorial Comments**

1. In step 2.4, the final sentence, which ended abruptly, was removed, as it was repeated again in step 2.5.
2. The paper was read again by the authors for grammatical errors and all errors noted where changed.

**Reviewer Comments**

**Reviewer #1**

1. The first sentence was revised as the reviewer suggested.
2. The following citation was used for the first two sentences of the introduction, “Epilepsy is one of the most common brain disorders, characterized by chronically recurrent seizures resulting from excessive electrical discharges from groups of neurons. Epilepsy affects about 50 million people worldwide and approximately 40% of all individuals with epilepsy have intractable seizures that cannot completely be controlled by medical therapy[1](#_ENREF_1). ”Epilepsy,<<http://www.who.int/en/>> (2012).
3. The sentence at line 157 in the introduction was modified as the reviewer suggested.
4. The link to the inmotion arm has been updated in the spreadsheet, as the website has been redesigned since the manuscript was first written.
5. The sampling rates of the robotic arm system and the SEEG recording system have been added to the manuscript in the protocol section in bullet 4.3 as suggested by the reviewer.
6. We would like to respond to the reviewer’s question about the time delay. *“In the robot arm system built by Interactive Motion Technology, the position of the 2 link manipulator is measured with encoders, converted to analog signals, and sent to DC channels in SEEG recording systems in real time. We have not measured the exact latency of this process, but the time delay in the encoding of the position, and digital to analog conversion is negligible.”*
7. We would like to respond to the reviewer’s comment about the montage. *“In the SEEG recordings in this study, reference montage was used where the reference electrodes are skin penetrating electrodes located in the Fz-Cz-Pz locations on the scalp. There is also a ground electrode located on the midline posterior to PZ as well. These electrodes do not penetrate the skull, and lay in the muscle layer of the scalp.”*
8. The manuscript and the figure legend has been updated to better illustrate what each axis is referring to. Time zero in the figures in left column is the time when the bet options are shown in the screen. The time zero in the middle column is the time when the positive reward is shown in the screen. The time zero in the right column is the time when the negative reward is shown in the screen. The color scales are the percent changes of SEEG power.
9. A sentence about the statistical analysis has been added to the results section according to a question asked by the reviewer.
10. The limbic system was specified in the results section as suggested by the reviewer.

**Reviewer #2**

1. We would like to respond to the reviewer’s comment about the photo. *“We agree with the reviewer that having a photo of the experimental setup would be beneficial to this manuscript and we thank the reviewer for their suggestion. With JoVE being a video journal, the experimental setup will be featured in the video portion of the manuscript and is the reason we did not include a picture with the written document. The entire set up will be featured in the video along with the task being performed in real time, which will make for a more dynamic visual experience than just a photo of the setup on its own.”*

**Reviewer #3**

1. We would like to respond to the reviewer’s comments and concerns. *“The authors thank the reviewer for their perspective and input. As this manuscript is meant to be a methods paper for performing behavioral tasks in implanted patients, the methodology of intracranial EEG was written for the purpose of general background information. We have taken their suggestions for the experimental procedure and added additional steps and comments to further explain any details, which may have needed clarification in both the protocol section as well as the discussion. It is the hope that the procedure outlined in the manuscript, supplemented with an equipment list and the video will be an instructional and a useful tool for experimenters. We sincerely appreciate all suggestions in achieving this goal.”*