Cover letter

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* Why this work should be published in JoVE*’s* unique multimedia format

The technique for preparing the tissue for recording is novel and difficult to describe in a method section. In order to learn the surgical technique and placement of the tissue onto the array, a demonstration in a video is essential.

* Author contributions

Andrew B. Kibler designed the prototype version of the protocol for the unfolded hippocampus. Mingming Zhang improved the protocol of the unfolding procedure in this manuscript with a few significant updates, including the updated custom-made surgical stage, tissue anchor, carrying out the surgery under microscope and etc. Mingming Zhang conducted all the experiments from which the data has been shown in this paper. Luis E. Gonzales-Reyes provided the feedbacks in the process of improving the protocol. Mingming Zhang, Luis E. Gonzales-Reyes and Dominique M. Durand wrote this manuscript.

* The names of any JoVE editors who have assisted you in the submission process.

None.

* List of 6 peer reviewers’ names with their institutional affiliation and email address. Up to three opposed reviewers may also be suggested.

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