**Date: 06/08/2018**

**STIMULUS DESCRIPTION**

**PROJECT NAME:** *Credit Assignment*

**PROJECT CODE:** *(Unique LIMS project code)*

**PROJECT INTERNAL CONTACT:** Jerome Lecoq, jeromel@alleninstitute.org

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**STIMULUS SET NAME:** 2P pilot experiment stimuli

**STIMULUS SET DESCRIPTION:** Moving bricks, and repeating sparse Gabors

**-Stimulus Scripts:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Mouse** | **SCRIPT FILE NAME** | **SCRIPT DURATION** | **DETAILED DESCRIPTION** |
| **1** | **stim\_mouse1\_2p.py** | **32.5 min** | **15 minutes Gabors, 15 minutes bricks, with 2.5 minutes of blank in between. Repeat twice, once while imaging in Layer 5, once while imaging in Layer 1** |
| **2** | **stim\_Mouse2\_2p.py** | **67.5 min** | **15 minutes Bricks, 15 minutes Gabors, 15 minutes Bricks, 15 minutes Gabors, with 2.5 minute blanks between each block** |
| **3** | **stim\_Mouse3\_2p.py** | **32.5 min** | **15 minutes Bricks, 15 minutes Gabors, with 2.5 minute blank in between. Repeat twice, once while imaging in Layer 2/3, and once while imaging in Layer 1** |
| **4** | **stim\_Mouse4\_2p.py** | **67.5 min** | **15 minutes Gabors, 15 minutes Bricks, 15 minutes Gabors, 15 minutes Bricks, with 2.5 minute blanks between each block** |

**Additional relevant information:**

* The Bricks will all switch size and/or direction midway through each Bricks block.
* The stim\_MouseXXX\_2p.py script call a stim\_params.py class that contains parameters.
* A single RNG seed specifying the Gabor positions and sizes is shared for all animals (specified in the stim\_params.py class file).
* The Gabors stim should be a sequence of 4 frames (A,B,C,D). For all days, the “A” frame should have the same locations and sizes of Gabors. The same is true for the B-D frames.