Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: the performance of motion correction on a raw video clip of an example

mouse.

File Name: Supplementary Movie 2

Description: the performance of cross-session alignment on the maximum projected images

of baseline and test sessions from an example mouse.

File Name: Supplementary Movie 3

Description: an example tracked neurons (white circle) through baseline to test sessions.