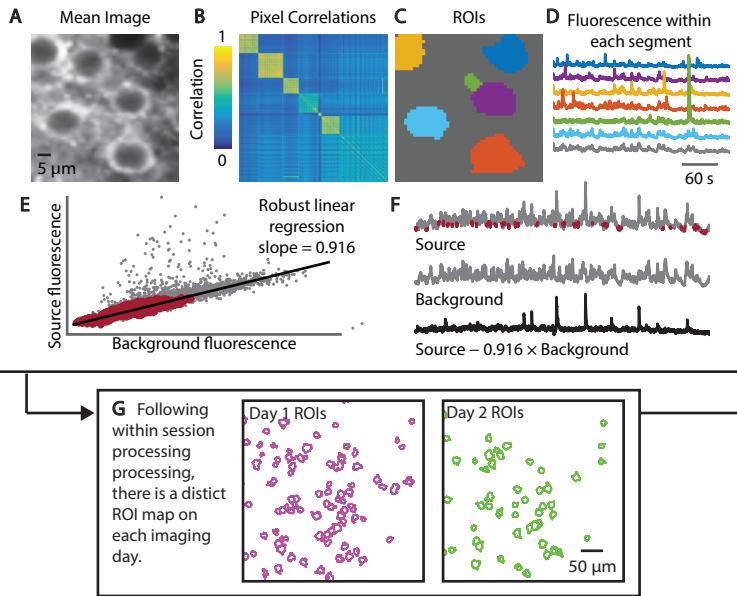
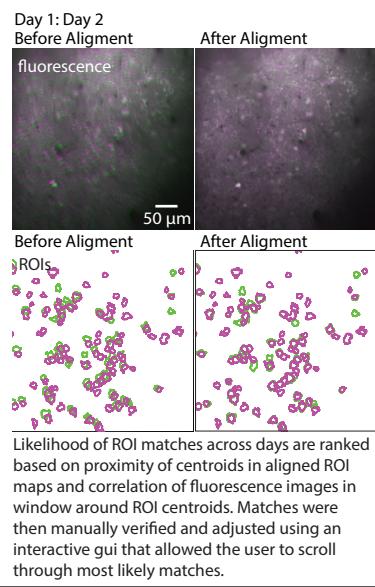


### Within Session Processing

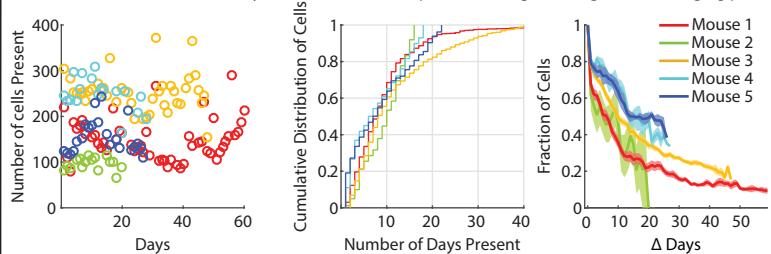


### Across Session Processing



### J Statistics of Cells with Good Matches

This method resulted in an incomplete map of all cells across all sessions. Cells that were not active, out of focus or filled in on a given session did not have a defined mask for that particular imaging day and were therefore missing from the aligned cell set across imaging days. Cells were more likely to have a defined mask on sessions that were nearby in time because of expression changes throughout the imaging period.



### I Quality of Match Assessment

ROI matches across all sessions were then manually ranked based on likelihood of match. Only cells ranked 1 or 2 were used for across session analyses.

#### KEY

- 1) Same cell
- 2) Likely same cell
- 3) Cannot be confirmed
- 4) Nuclear fluorescence

#### Separate Imaging Days →

