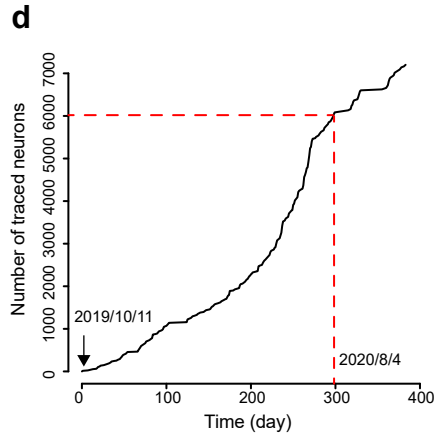
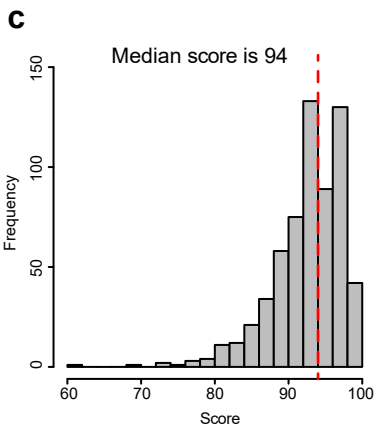
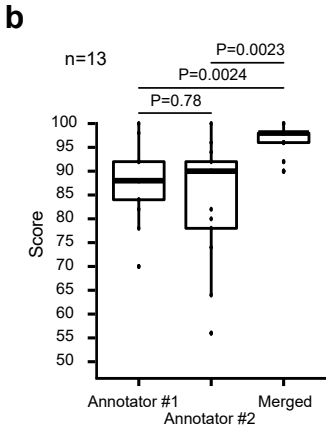


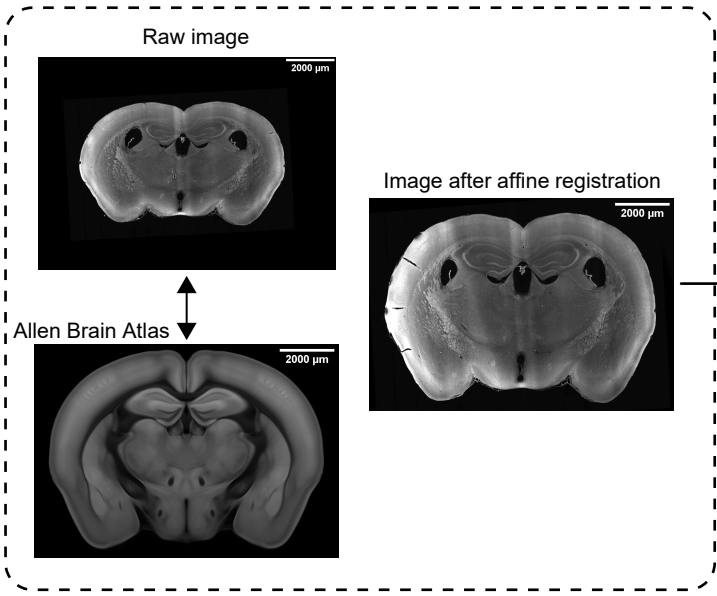
Extended Data Figure 2

a Scoring criteria of neurite tracing

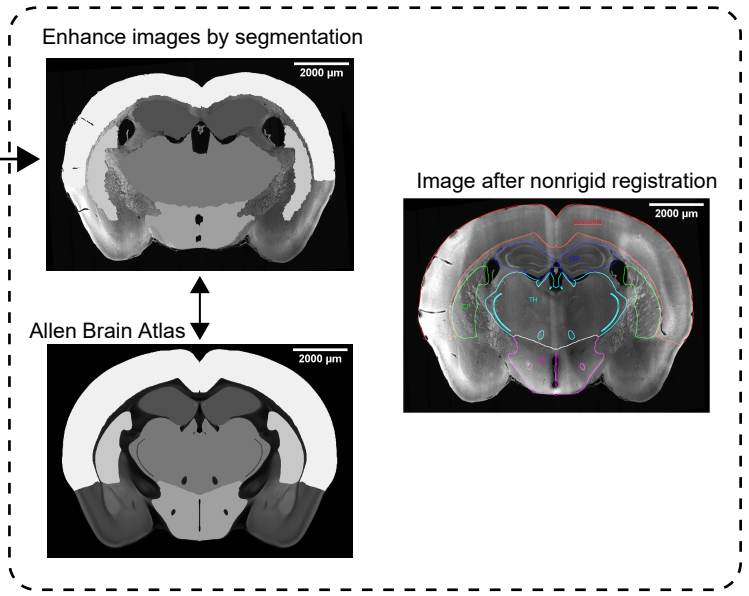
Penalty	Condition
-1	# of false negative or false positive of branches = 1
-6	# of false negative or false positive of branches = 2 or 3
-11	# of false negative or false positive of branches > 3
-6	Loop forming
-11	Mis-connections to other neurons



e Step 1: affine registration



Step 2: nonrigid registration based on segmentation



f Validation of image registration

