

Output: A0s(i), File(i)

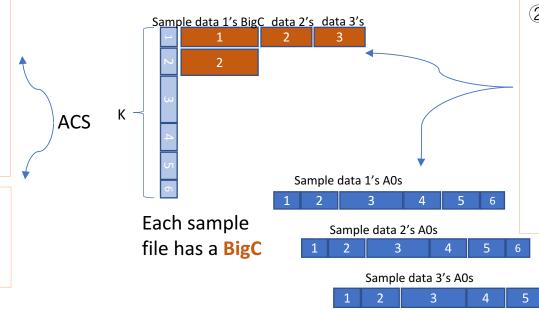
A0s
{1} {2} {3} {4} {5} {6}

A0s' mask

③ Similar neurons extracted in different files should have similar spatial footprint as well as similar temporal traces across files. User-specified correlation threshold is used in this step.

Merge their A. See *MergeAC()* for detailed merging strategy. Output: ACS's updated A and STD field. (some neuron's A and STD deleted, while those merged have the same A and STD in each file's ACS)

4 Those neurons that cannot be merged will have A's (Each sample file's BigA) weighted and summed based on standard deviation of each A column's corresponding C trace. See weightedA=ReducingA(...) for detailed method.



Por each sample data
For each A0 mask cell element, use it on background subtracted sample data to extract C (Each mask cell starts with fresh data). After extraction of one neuron, re-estimate its A and peel the signal (A*C) off. The result is put in structure ACS. ACS(i) has file i's BigC, its STD, and BigA. See A2C2A() for details.

Afinal

⑤ Use this A to extract neuron temporal C in all data you are interested in. No initiation and iteration for data. Use background subtraction strategy in the normal cnmf-e to subtract background, then use regression to find C corresponding to A. Save results in neuron_batch.neuron. See more in key variable table: neuron_batch.

