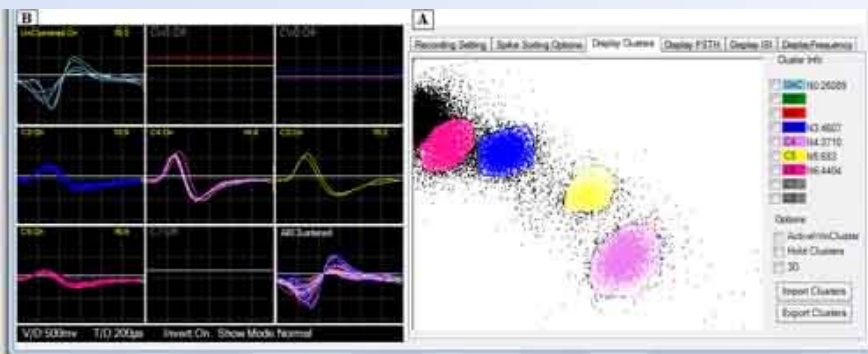


scienceBeam Spike sorter(online and offline)

ScienceBeam spike sorter is a high performance and user friendly software, designed for visualizing and classifying action potential signals _spikes_ and PSTH collected from single and micro-array electrodes. It gives the ability to separate action potential signals through two modes, amplitude window discriminator and 2D feature space clustering.

Manual clustering

ScienceBeam spike sorter has a Manual clustering selection in 2D feature space. it gives more than 20 spike features for grouping spikes with similar features into clusters, corresponding to a different neuron. Some spike features includes: peak, valley, width, positive area, negative area, energy, non-linear energy, mean, Variance, peak to valley, slope. ScienceBeam Spike sorter has also two channels online amplitude window discriminator.



Specifications

- Visualization of recorded extracellular action potential data stream
- Raw and sorted spike visualization
- PCA spike sorting
- Two channels of amplitude window discriminator
- Audio monitoring of raw and sorted spike signals
- PSTH and ISI presentation
- Visualization of maximum 8 window sorted spike for Each channel of single unit data
- Online clustering

