



Silicon Neural Probes & Optogenetics

Enjoy artifact-free data with our silicon neural probes during optogenetic stimulation and in combinations with our chronic nano-Drives you can co-implant silicon neural probes and a fiber optic cannula to be physically-movable in freely-behaving animals.

Optogenetics capability...

easily co-align our silicon neural probes with a fiberoptic cannula across 5 different positions with respect to probe shanks.

Freedom to choose fiber optic properties...

across a range of fibers from 50 - 200 core with a variety of tip options, such as flat, angled, mirror-tip, diffuser tip and conical tip.

Spatially-defined separation between fibre optic and probe...

choice of 300 microns or 650 microns to minimize tissue damage around the recording sites, whilst maintaining proximity to spill sufficient light power to drive your chosen opsins.

Ability to move your probe WITH your fibre optic cannula...

our nano-Drives enable your silicon neural probe and fibre optic cannula to move together through the brain whilst ensuring that you're always recording and stimulating in the right place.

Not just optogenetics...

co-align other tools such as fluidic cannulae, stimulating electrodes, tetrode-bundles, micro-dialysis probes and so on, alongside your silicon neural probes, enabling multi-functional implants in a user-defined way.



My students and I unanimously prefer these probes over various others that we have tried. The signal to noise ratio is excellent, and the design is sturdy and robust. For acute recordings, these are the best-engineered and most user-friendly probes I've worked with.

Sara Aton, Lab Head, University of Michigan, USA
Brain area: Hippocampus; Species: Mice

