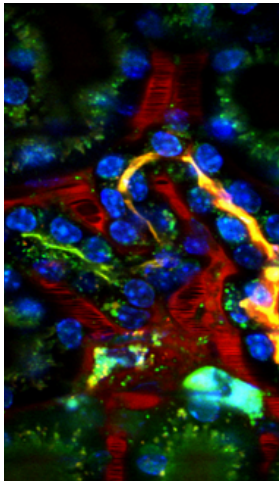


LIST OF POPULAR APPLICATIONS

- BEHAVIOR EXPERIMENTS
- DEEP FUNCTIONAL IMAGING
- VOLTAGE IMAGING
- OPTOGENETICS
- BLOODFLOW IMAGING
- NETWORK IMAGING
- DENDRITIC IMAGING
- UNCAGING EXPERIMENTS
- 3-PHOTON MICROSCOPY
- FLIM
- ELECTROPHYSIOLOGY
- CHRONIC IMAGING



READY FOR RELIABLE RESULTS?
TEAM UP WITH US!



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FEMTONICS
20 YEARS OF EXPERIENCE

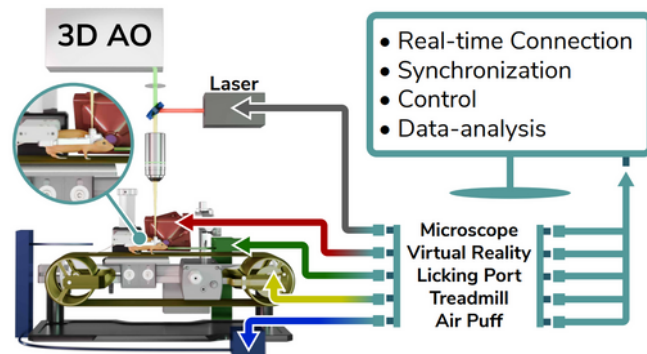


THINKING AHEAD
FEMTONICS
MICROSCOPY

DISCOVER OUR
APPLICATIONS

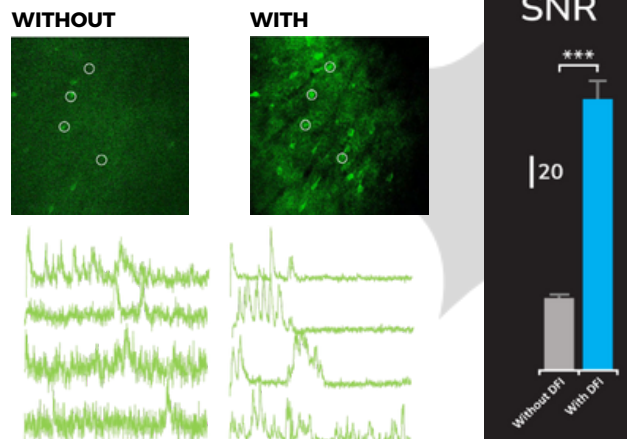
COMPLEX BEHAVIORAL EXPERIMENTS

IMAGING NEURAL ACTIVITY IN BEHAVING ANIMALS IS CHALLENGING, SINCE ALL KINDS OF MOVEMENT MAY GENERATE IMAGING ARTIFACTS. WITH THE HARDWARE AND SOFTWARE SOLUTIONS PROVIDED BY FEMTONICS, WE PROMISE, THAT YOUR EXPERIMENTS WILL BE AT ITS BEST BEHAVIOR!



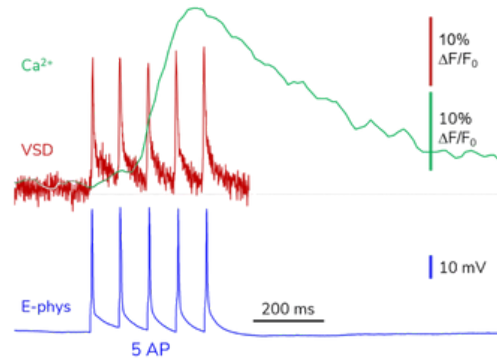
DEEP FUNCTIONAL IMAGING

EXAMINE THE DEEPER LAYERS OF THE NEOCORTIX. EVEN AROUND 1 MM DEEP.



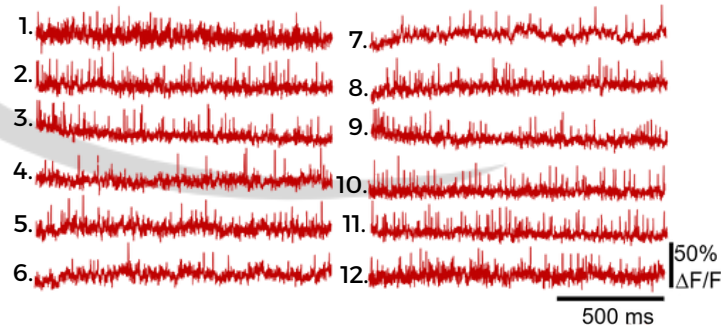
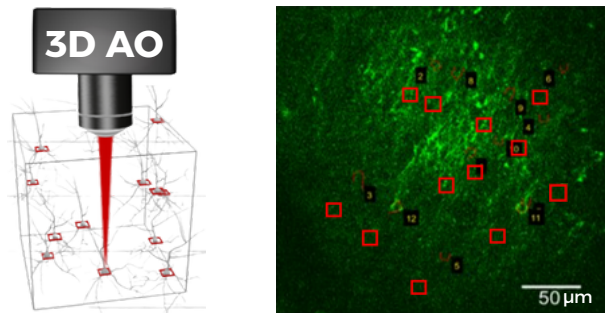
IMPROVED SNR USING FEMTONICS DFI PACKAGE AT - 850 MICROMETERS IN CORTEX. GREEN TRACES: EXAMPLE ROIS. BAR GRAPH: SNR

3D VOLTAGE IMAGING



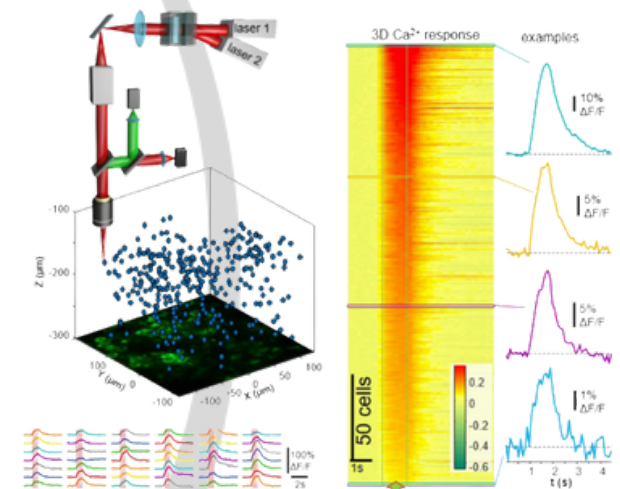
ADVANTAGES TO ELECTROPHYSIOLOGY

- NON-INVASIVE, LARGE-SCALE (EVEN 100 CELLS AT A TIME)
- DETAILED ELECTROPHYSIOLOGICAL READOUT
- MORPHOLOGY + DENDRITIC-LEVEL INSIGHTS
- NO PHYSICAL ACCESS REQUIRED
- HIGH TEMPORAL RESOLUTION (UP TO 100 KHZ)
- REDUCED PHOTOBLEACHING WITH NEW VOLTAGE SENSORS



3D OPTOGENETICS

PHOTOSTIMULATION CAN BE INTERLACED WITH IMAGING BY SELECTING A SCAN AREA COVERING ONE OR MORE SOMATA SITUATED ANYWHERE IN THE 3D VOLUME. WITH THE TIMING OF THE STIMULUS UNDER OUR CONTROL, THE SPATIAL AND TEMPORAL PROPERTIES OF THE NETWORK ELEMENTS CAN BE EXAMINED HOLISTICALLY AND EVEN CHRONICALLY.



SIMULTANEOUS PHOTOSTIMULATION AND IMAGING

BLOODFLOW IMAGING

THE FEMTO3D ATLAS MICROSCOPES EMPLOY SUPERIOR TECHNIQUES TO PERFORM HIGH-QUALITY BLOOD FLOW TRACKING AT THE CELLULAR LEVEL.

