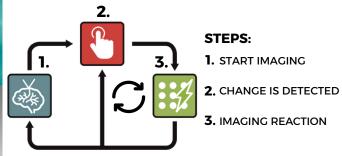
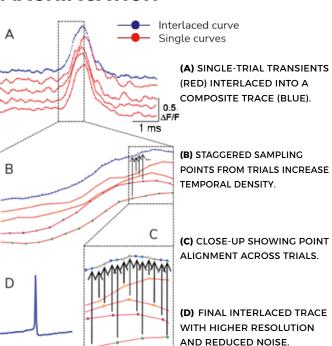
CLOSED-LOOP MEASUREMENTS



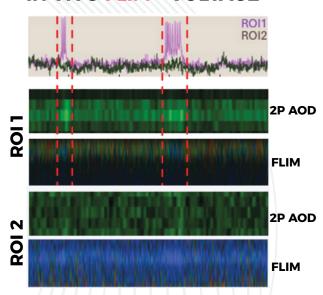
CLOSED-LOOP IMAGING CONCERNS ADJUSTING IMAGING SETTINGS DURING THE MEASUREMENT BASED ON EXTERNAL INPUT. IT CAN BE A BUTTONPUSH, A BEHAVIOR CHANGE, OR ANYTHING IN BETWEEN. EFFECTS INCLUDE SHIFTING PHOTOSTIMULATION OR IMAGING PATTERN, CHANGING IMAGING REGION, OR ANY OTHER APPLICATION YOU CAN COME UP WITH.

SUB-INTERVAL TEMPORAL

MAGNIFICATION



IN VIVO FLIM + VOLTAGE



SIMULTANEOUS FLIM AND VOLTAGE MEASUREMENT IN VIVO. ROI 1 SHOWS SIGNALS WITH BOTH IMAGING TECHNIQUES SIMULTANEOUSLY, WHILE ROI2 STAYS SILENT TOGETHER.

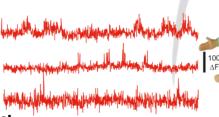


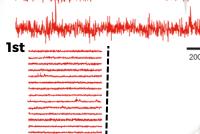


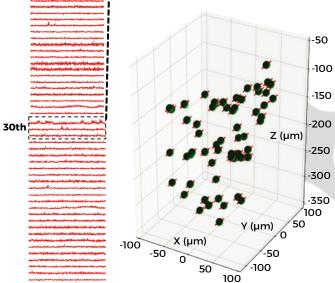
3D VOLTAGE IMAGING

ADVANCEMENTS

- SCANNING AT OVER 100 KHZ
- TEMPORAL SUPER RESOLUTION
- 3D REAL-TIME MOTION CORRECTION
- ADVANCED ROI SCANNING
- EXCEPTIONAL SNR
- SUBTHRESHOLD SIGNALS
- 6 DEGREES OF FREEDOM







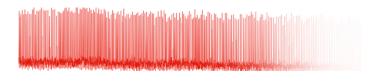
1.5 AE/E

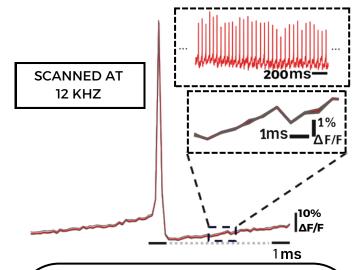
200 ms

60th

60 targets

TEMPORAL SUPER RESOLUTION





RECENT PUBLICATIONS

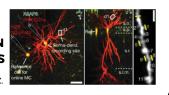
MOCULUS: AN
IMMERSIVE VIRTUAL
REALITY SYSTEM FOR
MICE INCORPORATING
STEREO VISION

JUDÁK, L., DOBOS, G., ÓCSAI, K. ET AL. NAT METHODS 22, 386-398 (2025).



SYNAPTIC BASIS OF FEATURE SELECTIVITY IN HIPPOCAMPAL NEURONS

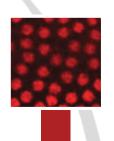
GONZALEZ, K.C., NEGREAN, A., LIAO, Z. ET AL. NATURE 637, 1152-1160 (2025).

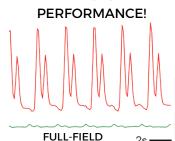




RECENT ACHIEVEMENTS

MITOSIS IN FRUITFLY





FLUORESCENCE

10-1

ΔF/F

WITHOUT

3D-RTMC

WITH 3D-RTMC

A HEARTSTOPPER

