

CELL ELECTROPHYSIOLOGY

BRAIN SLICE ELECTROPHYSIOLOGY

IN VIVO BRAIN ELECTROPHYSIOLOGY

IN VIVO SC & DRG ELECTROPHYSIOLOGY

FREELY MOVING ELECTROPHYSIOLOGY

FEAR & ANXIETY MODELS

Fear & Anxiety

Custom recordings & analysis of neuronal signals



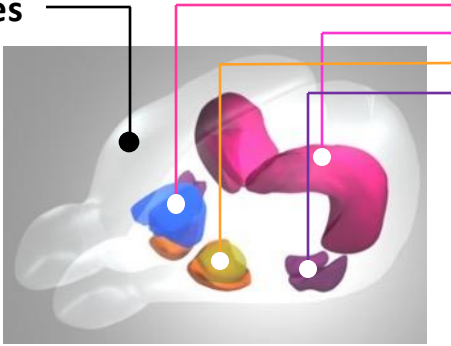
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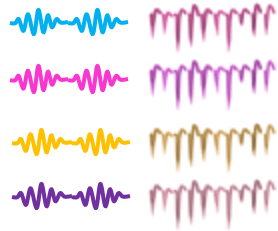
FEAR & ANXIETY

CUSTOM RECORDING & ANALYSIS OF NEURONAL SIGNALS

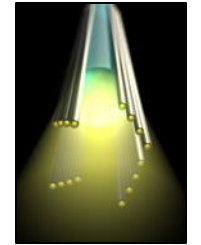
Surface Electrodes
EEG-ECoG



Deep Electrodes
LFP & Single Units

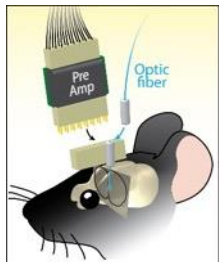


6 PLEXON
MULTIPLE RECORDING SYSTEMS
128 Channels

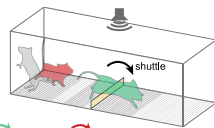


Electrodes,
Tetrodes,
Polytodes,
Optrodes

**FREELY MOVING
ELECTROPHYSIOLOGY**

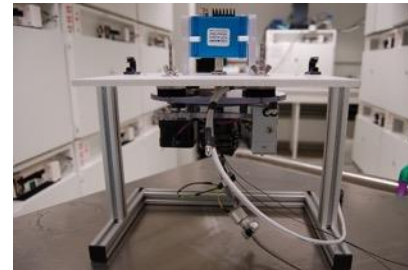


Pavlovian Conditioning



Avoidance Paradigm

**PHARMACOLOGY & OPTOGENETIC
COUPLING**

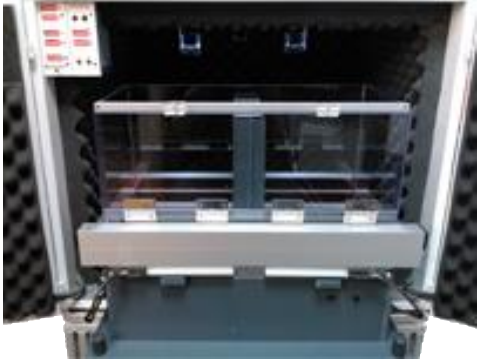


**400 SQ METERS
OF DEDICATED SPACE**

- Mice and rats (male and female) animal facilities
- Experimental space
- Dedicated team of technicians and researchers

BASIC ANXIETY BEHAVIORAL MODELS

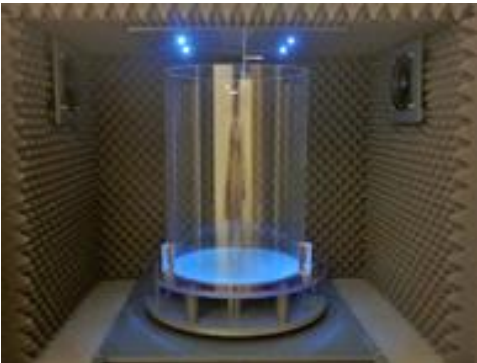
LIGHT DARK BOX



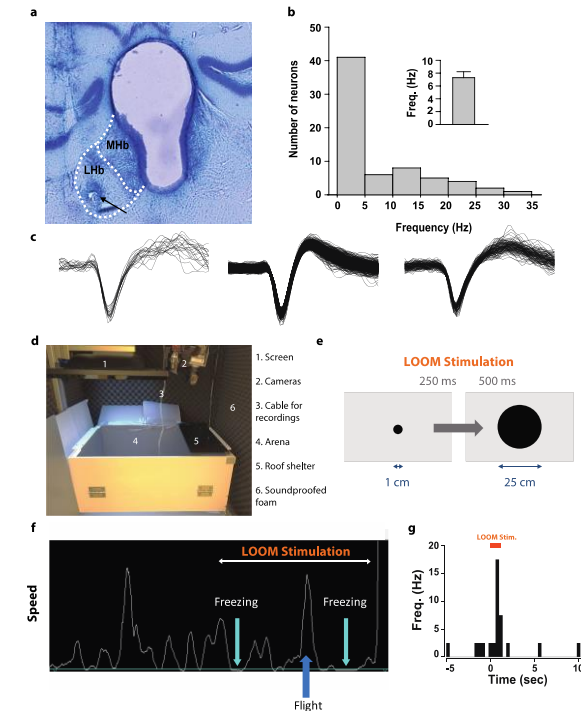
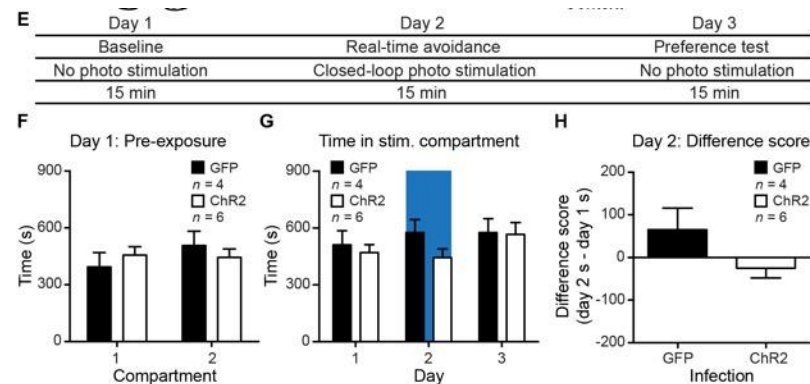
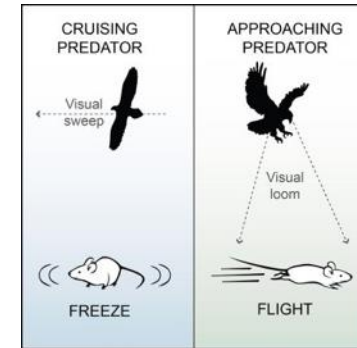
PLACE PREFERENCE / CONDITIONED PLACE PREFERENCE



STARTLE / FEAR CONDITIONED STARTLE



INNATE FEAR: LOOMING/SWEEPING TEST

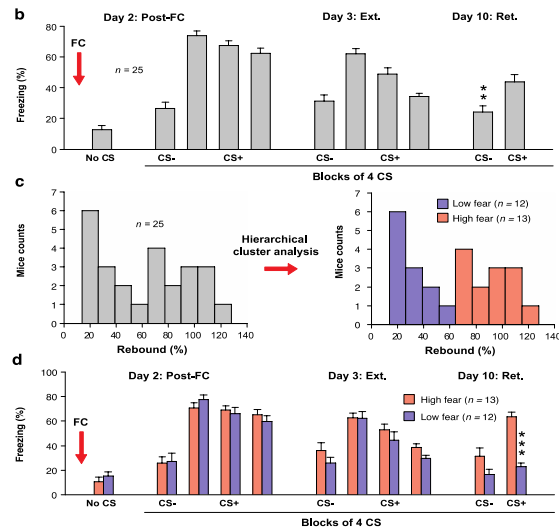


MODELS FOR SPECIFIC ASPECTS OF ANXIETY – RELATED DISORDERS

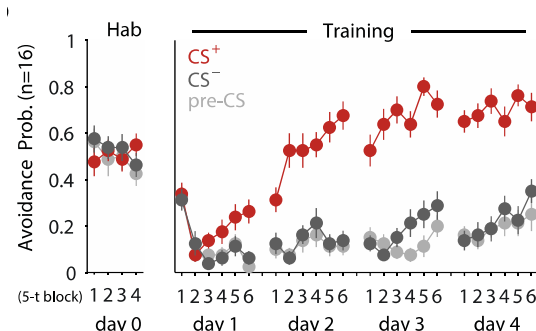
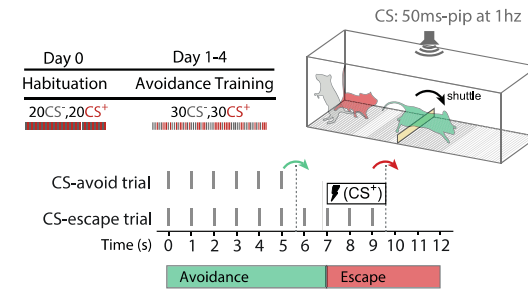
ANXIETY DISORDERS / PTSD

RELAPSE AFTER TRATMENT

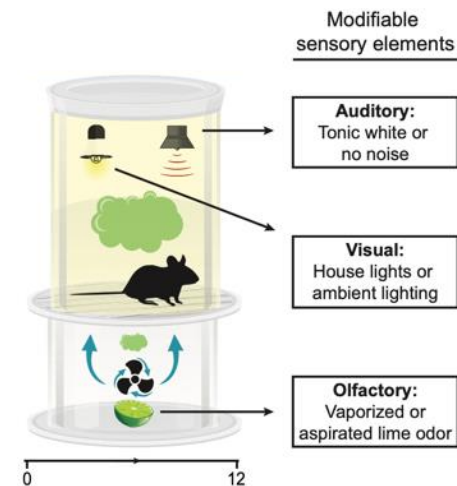
Mice & healthy humans



AVOIDANCE



CONTEXTUAL GENERALISATION



COMORBIDITY WITH PAIN DISORDERS

