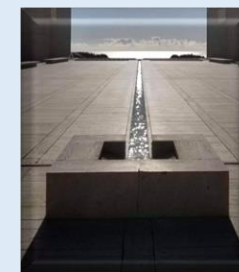




The Behavior Testing Core (BTC) at The Salk Institute

Core Director: Nick Andrews, PhD
Executive Director: Travis Berggren, PhD



CURRENT CAPABILITIES

ABOUT THE BTC

The BTC at the Salk Institute aims to provide a comprehensive resource for investigators to pursue basic science and translational studies of sensory, motor, and complex behavior in mouse models of human disorders.

SERVICES

Consultation: Study design

Technical: Provision of equipment, full-service testing, stereotaxic implants and injections, drug dosing, tissue dissection

Analytical: Data interpretation, statistical analyses, and summaries are available at the end of testing for new or previously generated data.

Training: available to lab personnel for independent use of equipment

Coming in 2021/22

Full renovation of Core laboratories

- Increased footprint to provide
 - Up to 1800 cages (280 in reversed light cycle)
 - More testing rooms
 - More surgery spaces

Machine learning-based analysis of behavior

- Home cage activity to follow animals long term
- Skilled motor performance
- Social behavior

Video Monitoring Systems

Anymaze
SiMi

Sensory

Hot Cold Plate
Optomotry
Radiant Heat test
Acoustic Startle
Von Frey

Emotion

Elevated Plus Maze
Fear Conditioning
Light/Dark Box
Social Interaction Apparatus
Ultrasonic Vocalizations

Surgical facility

Stereotaxic frame
with injection system

Motor

Activity Monitor
Grip Strength Meter
Ladder Beam Challenge
Ring Agility
Rotarod
Treadmill

Cognition

Barnes Maze
Fear Conditioning
Shock Avoidance
Morris Water Maze
Novel Object Recognition
Social Interaction Apparatus
Y Maze

Modified Environments

Maintain control of
circadian rhythms

The Salk Workshop can help with customized fabrications

Phenotyping can be performed across lifetime or at key developmental periods within a controlled environment

Environment can be accurately manipulated to become an experimental variable

Highlights of the Renovations

- Increased regular housing
- Dedicated Reversed light housing
- Dedicated Enrichment housing
- Surgery suite with 6 bays
- Dissection/perfusion suite
- White/red light in all rooms
- Mobile benches for flexibility
- Hot desks for users

Contact Nick Andrews to discuss your project
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