

In our Journal Club Series OptoDrum users present their recent publications and data, including a live Q&A at the end.



Developing Retinal Gene Therapy for Zellweger Spectrum Disorder (ZSD) Catherine Argyriou, Ph.D. McGill University



In Vivo Modeling of Immune-mediated Optic Neuropathies Oliver W. Gramlich, Ph.D. The University of Iowa



Endothelial Caspase-9 Mediates Inflammatory & Vision Function Changes in Retinal Vascular Injury Crystal Colón Ortiz, Ph.D. Columbia University Medical Center

All Journal Clubs



www.stria.tech/journalclub/

OptoDrum



Determine Visual Performance

Measuring Vision in Freely Moving Animals

- Visual Acuity
- Contrast Sensitivity



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STRIATECH Your Experts for Neuroscience Testing Tools

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Advantages

Enables fast, objective, reliable data

Fully automated procedure including animal detection, adjustment of the stimulus pattern and analysis

Easy to use

Intuitive software Simple conduct of experiments Easy to handle the animal and clean the device

Ouick to start

Reflex based; no training necessary for the animal

Expert knowledge

Personal support by the developers

Applications

For a wide range of pre-clinical research applications:

- Ophthalmology Characterization of vision
- Toxicology
- Screening for vision defects
- Pharmacology Efficacy and safety testing
- Phenotyping
- New genetic lines
- **Disease models**
- Track disease progression

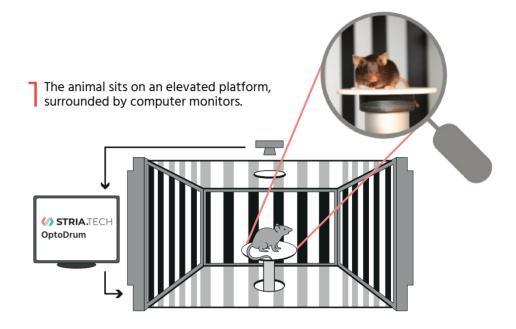
Accessories

ScotopicKit for testing night vision

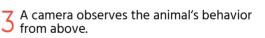
Set of filter foils for stepwise reducing absolute light levels inside the OptoDrum to near darkness.

W How it works

The OptoDrum determines the visual acuity and contrast sensitivity of your research animals based on the optomotor reflex.



The stripe pattern slowly rotates around the animal, triggering the optomotor reflex.



4 The head movement is automatically detected and analyzed by the OptoDrum software.

The projected pattern is continuously and automatically adjusted to find the visual threshold.