

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/

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OptoDrum

Determine Visual Performance



Measuring Vision in Freely Moving Animals

- ▶ Visual Acuity
- ▶ Contrast Sensitivity



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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
- ▶ **Quick 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.

How it works

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

