As a previous user of a system with 'manual' analysis I cannot tell you how happy I am to have the OptoDrum. The fact that it is easy to use and it relies on an unbiased method to determine 'yes' or 'no' decisions for mouse behavior helps a lot in designing and conducting experiments.

Dr. Abdoulaye Sene, Genentech

The OptoDrum is a valuable addition to our non-invasive testing equipment. It is a convenient, reliable, and sensitive read-out that gives us unbiased and comparable results for longitudinal analysis of neuroinflammation-related damage in the retinotectal system of mice.

Dr. Janos Groh, University Würzburg

We are not necessarily faster than an experienced user who has many years of experience with such tests, but the results are finally objective. Until now, it was difficult or even impossible to compare data collected by different users.

Prof. Volker Enzmann, University Bern, Switzerland

The OptoDrum has a user friendly and sturdy design. It is incredibly easy to use and delivers results right away. On top of this, Striatech provides great support!

Prof. Marius Ader, TU Dresden

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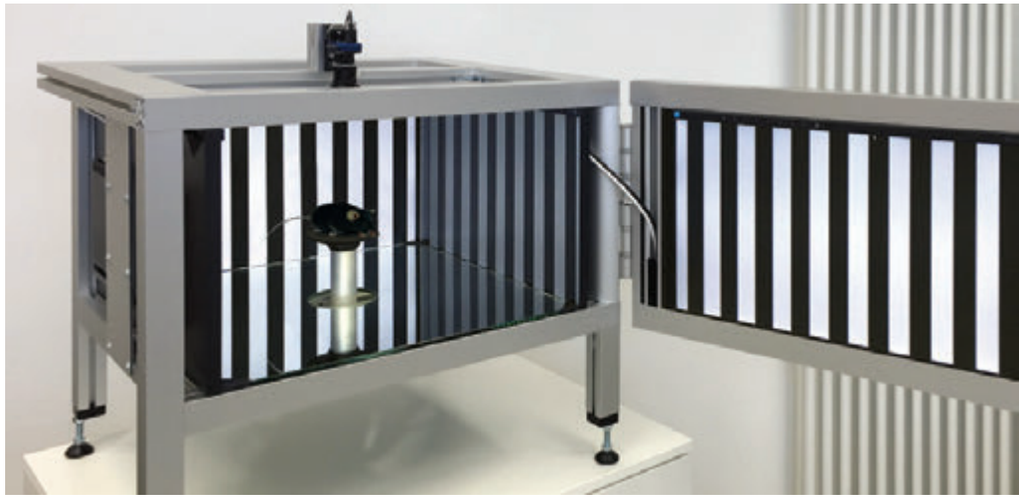
Developed with support from:

OptoDrum

Innovations in optomotor tracking



Measuring vision in freely moving animals

- **Ophthalmology:** characterization of vision
- **Toxicology:** screening for vision defects
- **Pharmacology:** efficacy and safety testing
- **Phenotyping:** new genetic lines
- **Disease models:** track disease progression

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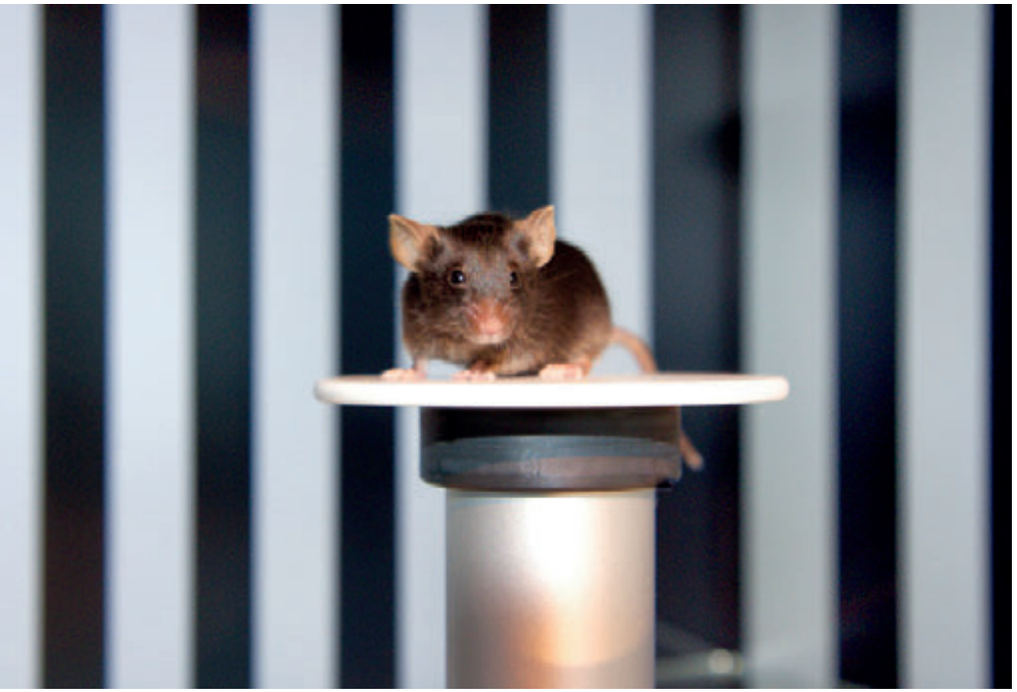
Advantages

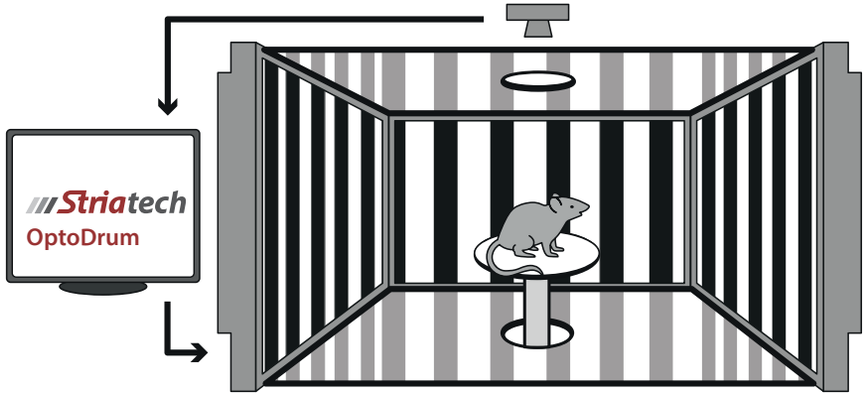
- **Fully automated**
  - Automated animal detection
  - Automated behavior analysis
  - Automated adjustment of stimulus pattern
  - Fast, objective, bias-free results
- **Easy setup**
  - Use it right out of the box
  - No training of animal required
  - Front door allows easy handling of animal – and easy cleaning
- **For mice and rats**
  - Larger version for rats available



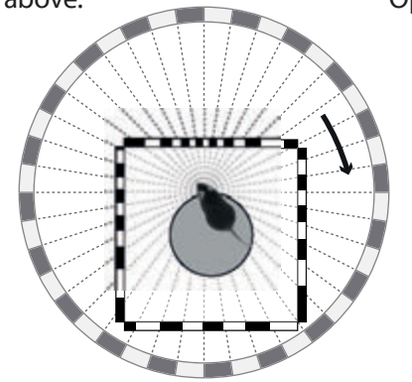
How it works

1 The animal sits on an elevated platform, surrounded by computer monitors.

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



3 A camera observes the animal's behavior from above.



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

5 The projected pattern is continuously and automatically adjusted.

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