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Eye-Tracking Control to Assess Cognitive Functions in Patients with Amyotrophic Lateral Sclerosis

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0:05 Title
0:59 Setup of Testing Paradigm
1:52 Eye-tracker Set-up & Calibration
3:40 Eye-tracking Experiment: CPM & D2 Test
5:46 Results: Development of a Reliable Oculomotor Based Neuropsychological Assessment for ALS Patients
6:18 Conclusion

Related Videos

1. ALS - Motor Neuron Disease: Mechanism and Progress. Published 7/20/2007
2. Utility of Dissociated Introspective Memory as an ALS Diagnostic Tool. Published 9/20/2012
4. Exposing the Characteristics of Episodic Memory in ALS. Published 8/03/2013
Protocol

Ethics statement: All animal work, including husbandry, breeding and sacrifice was approved by Memorial Sloan Kettering Cancer Center’s Institutional Animal Care and Use Committee (IACUC), protocol #13-12-017.

1. Embryo Collection

Notes: All animal work must have been approved by institutional and local authorities and conform to local and institutional rules.

1.1. Mate a virgin female mouse with a fertile stud male of the desired genotypes.

1.2. Check the presence of a vaginal plug in the morning using a blunt probe. Ideally, do this before noon (12:00 PM), as copulation plugs are lost throughout the day. Consider noon of detection of the vaginal plug embryonic day (E)0.5.

1.3. On the desired day and time of embryonic development, warm up M2 or flushing holding medium (FHM) to RT or, preferably, 37 °C. Note: Either M2 or FHM can be used for flushing and handling embryos. When not in use, store these media at 4 °C. Estimate the use of ~2 ml of medium for each uterus.
Journal Article Structure

1. Abstract
2. Introduction
3. Protocol
4. Results & Discussion
Journal Benefits

- Increase **research productivity** and **reproducibility**
- Quickly onboard new lab trainees
- Save money and resources for labs
- Learn **gold-standard and newest methods**

“Methods are complex and can only partially be described in words. Seeing the method performed immediately provides a wealth of information to the viewer. This information conveys a realistic idea of how the method is done, what is needed to do it, and helps the viewer analyze how they should proceed.”

Dr. Michele Calos, Stanford University
Science Education (SE)

- Laboratory Fundamentals
- Simple, Easy to Understand Video Demonstrations
- Engaging Animations
- 300 professionally produced core videos with over 40 hours of tutorial content
- Video content maps directly to classes
- Flipped Classroom Tool
- JoVE Quiz Testing Tool
SE Quiz Creation (step 1)

1. Select the collection you wish to create a quiz for and then select the article title.
2. Enter the email addresses or listserv address of the quiz taker(s).
SE Quiz Creation (Step 2)

3. These are preset questions written by our in-house scientists who have put together the collections. You can add, edit, or remove these questions here. Select the correct answer if you are customizing the quiz.

4. You may also include an image for reference by clicking "Choose File" and selecting your image.

5. Confirm and preview your quiz before sending it out to the recipients in (2).
SE Benefits

- **Increased speed of learning** in laboratory and classroom environments
- **Saved time and work for teaching faculty**
- Consistent **growth in student success**, learning outcomes, and **STEM retention**
- Support both undergraduate and graduate instruction

"Initially it took multiple tries, whereas now when we teach this technique with the JoVE video we have a success rate between 90 to 100 percent."

Dr. Carrie Northcott
Michigan State University
JoVE Account Creation (Off-Campus Access)

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