



## -Mouse Morris Watermaze Protocol

- Allow 15-60 minutes for animal room acclimation
- Room lights on
- H<sub>2</sub>O: 25°+/- 1°
  - *Bring the water to temperature before every session*
  - *Check the temp before every trial*
- Add white paint to water until opaque on Day 1
  - *Add more paint if necessary as the training days go on*
- Running animals round robin
  - *Example: Trial 1 -> Run animals 1-10 and then begin Trial 2 running animals 1-10 etc.*
- **Visible (Files: Visible Platform D1-D4)**
  - No cues up
  - Days 1-4 (2 sets of 4 trials = 8 trials per day)
  - 15 second on platform after finding it
    - *If mouse didn't reach the platform in 60 seconds, guide it to the platform and let it sit for 15 seconds*
- **Hidden (Files: Hidden Platform D1-D5)**
  - 2 sets of 6 trials
  - Cues are up: N (star), W (cross), S (circle), E (rectangle)
  - Platform: NW
  - Starting locations: NE, SW, SE (x2)
  - **Day 1** – Run Hidden Day 1
  - **Day 2** – Run Hidden Day 2
  - **Day 3 + probe**
    - Probe 1 (File: ProbeTrial)
      - Run before hidden trials
      - No platform
      - Mice placed in center of the pool and allowed to swim for 60 seconds
      - Rescue in quadrant where the platform would be
    - Run Hidden Day 3
  - **Day 4 + probe**
    - Probe 2 (File: ProbeTrial)
      - Run before hidden trials
      - No platform
      - Mice placed in center of the pool and allowed to swim for 60 seconds
      - Rescue in quadrant where the platform should be (NW)



- Run Hidden Day 4
- **Day 5 + probe**
  - Probe 3 (File: ProbeTrial)
    - Run before hidden trials
    - No platform
    - Mice placed in center of the pool and allowed to swim for 60 seconds
    - Rescue in quadrant where the platform should be (NW)

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