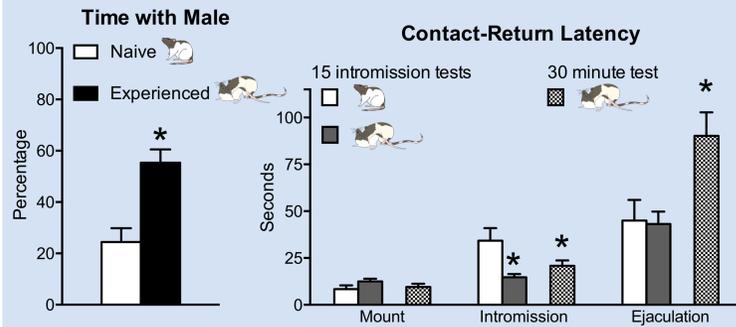


Introduction

Sexually experienced rats exhibit different patterns of paced mating behavior than naive rats.



Experiment 1: Is the longer contact-return to ejaculation in 30 minute tests relative to 15 intromission tests better explained by learning or the latency to receive each ejaculation?

Experiment 2: Does hormone regimen affect paced mating behavior in sexually experienced rats?

Methods

Ovaries Removed

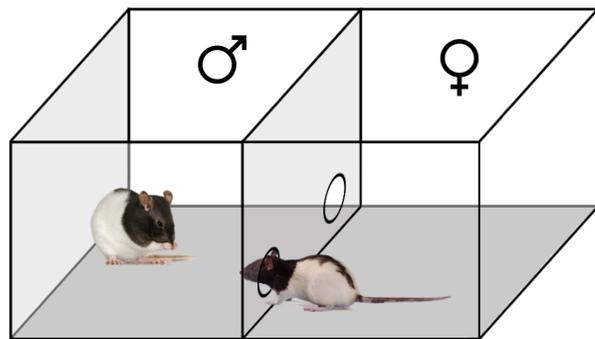


Hormone Treated

- 10 µg estradiol benzoate (EB) 48 hrs pre-test
- 1 mg progesterone (P) 4 hrs pre-test



Paced Mating Tests



- Contact-Return Latency (CRL): time to return to male after receipt of a stimulation
- Interintromission Interval: time between each intromission
- Proceptive Behaviors: hops/darts and ear wiggles

Acknowledgements

Many thanks to Cheyenne Joshua, Alex Mackiel, Antonia Piergies, Isabelle Rieth, Elsa Sandeno, and Madeline Topf.

Can we determine the physiological processes underlying sexual motivation and sensitivity to genital stimulation?

Paced mating behavior in sexually experienced rats is influenced by **latency to ejaculations** and **hormone regimen**.

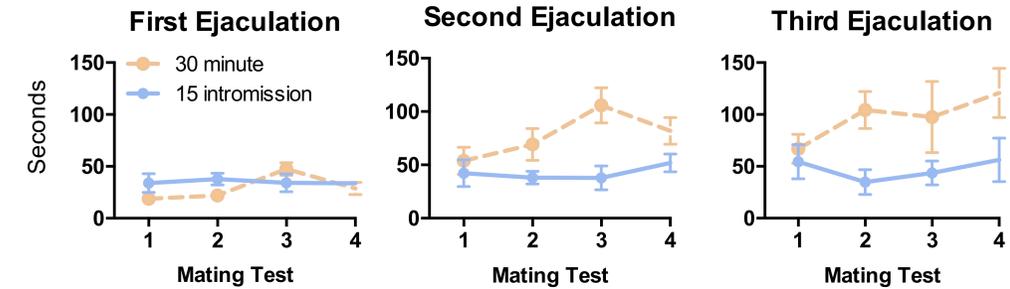
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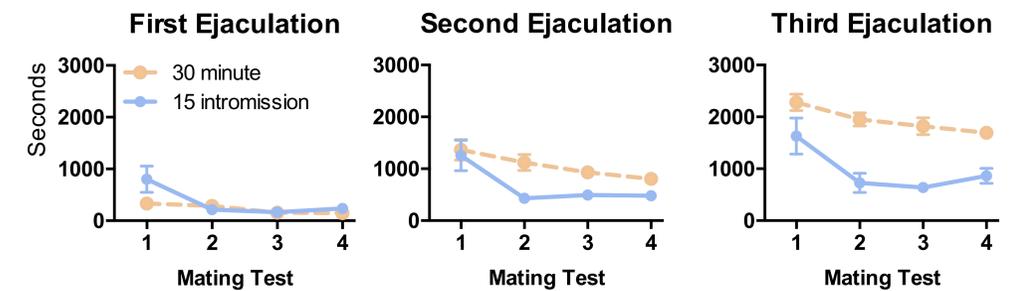
Experiment 1

30 minute/Same Male	Test 1	Test 2	Test 3	Test 4
15 intromission/Change Male	Test 1	Test 2	Test 3	Test 4

Contact-Return Latency



Latency to Ejaculation



Experiment 2

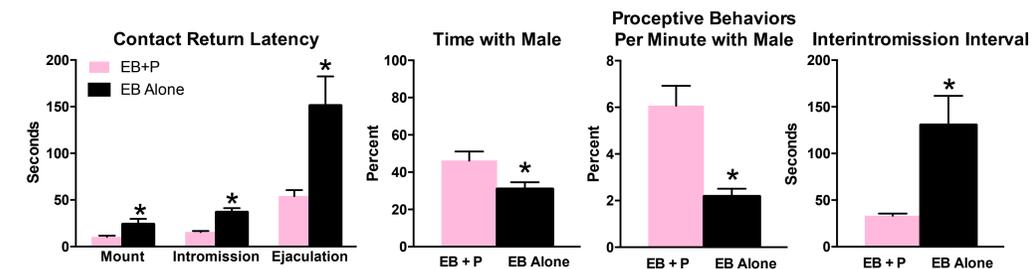


Three, 15 intromission paced mating tests to gain sexual experience

EB+P

EB Alone

2 µg EB/day x 6 days



Discussion

Experiment 1: Second and third ejaculations were received later in 30 minute than 15 intromission tests.

Heightened genital sensitivity, rather than learning, better explains longer CRL to ejaculation.

If learning was a major contributor to the longer CRL to ejaculation in 30 minute tests, the effect would be evident on the first ejaculation in Tests 2-4.

Experiment 2: Progesterone matters.

Although EB Alone induced full receptivity, paced mating behavior differed substantially from rats given EB+P.

A common physiological process likely leads to longer CRLs in rats tested over a longer period of time (30 minute vs. 15 intromission tests) and without P.