Table S1. Total duration (d) or frequency (f) of spontaneous behaviors recorded in rats of different hormone states.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Day 7 after OVX

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| --- | --- | --- | --- |
| Behavior | control | OVX | OVX+E |
| Exploration (d)  | 1723±257 | 1086±123 | 1578.8±283.4 |
| Internal crossing (f) | 174.6±59.4 | 59±6.8 | 147.4±28.6 |
| External crossing (f) | 598.6±40.5 | 342±29.7 | 469±74.3 |
| Rearing (f)Grooming (d) | 134.6±20.8601.9±136.7 | 58±6.8987±135.5 | 115.7±34.6651.8±165.4 |

 |

Data are expressed as mean ±SD.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Day 14 after OVX

|  |  |  |  |
| --- | --- | --- | --- |
| Behavior | control | OVX | OVX+E |
| Exploration (d)  | 1895±291 | 1129±183 | 1693±293.2 |
| Internal crossing (f) | 165.6±48.5 | 83±7.4 | 162.6±35.3 |
| External crossing (f) | 573.5±37.5 | 372±58.3 | 519±84.3 |
| Rearing (f)Grooming (d) | 120.5±35.2638.0±143.2 | 82±6.31032±153.3 | 104.3±28.4704.3±173.4 |

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Data are expressed as mean ±SD.

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| Day 28 after OVX

|  |  |  |  |
| --- | --- | --- | --- |
| Behavior | control | OVX | OVX+E |
| Exploration (d)  | 1692±314 | 1057±193 | 1593±268.5 |
| Internal crossing (f) | 187.3±52.3 | 93±7.9 | 157.3±45.2 |
| External crossing (f) | 610.3±38.3 | 385±62.8 | 586.8±98.4 |
| Rearing (f)Grooming (d) | 209.4±29.8610.6±184.6 | 92±9.31104±182.3 | 114.6±36.9736.6±184.2 |

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Data are expressed as mean ±SD.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Day 35 after OVX

|  |  |  |  |
| --- | --- | --- | --- |
| Behavior | control | OVX | OVX+E |
| Exploration (d)  | 1902±328 | 1047±137 | 1785±262.4 |
| Internal crossing (f) | 138.4±52.7 | 92.6±11.4 | 197.2±36.5 |
| External crossing (f) | 519.3±84.3 | 410±67.8 | 420.6±73.6 |
| Rearing (f)Grooming (d) | 110.3±25.7610.2±184.2 | 65±4.7993.2±152.6 | 98.3±21.5682.5±183.2 |

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Data are expressed as mean ±SD.