

Outbred Rat Iar: Long-Evans



Left: female, 8-week-old
Right: male, 8-week-old

◆ Origin

This strain is established by Dr. Long and Dr. Evans in 1915. This traces its roots to Monash University to Tohoku University in 1984; to Institute for Animal Reproduction through acquisition in 1996.

◆ Coat Color

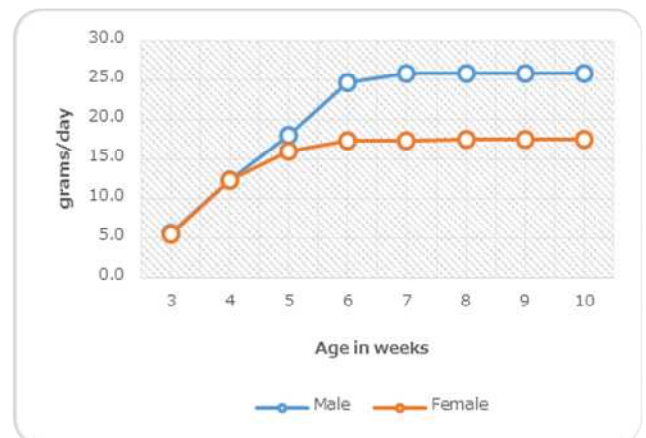
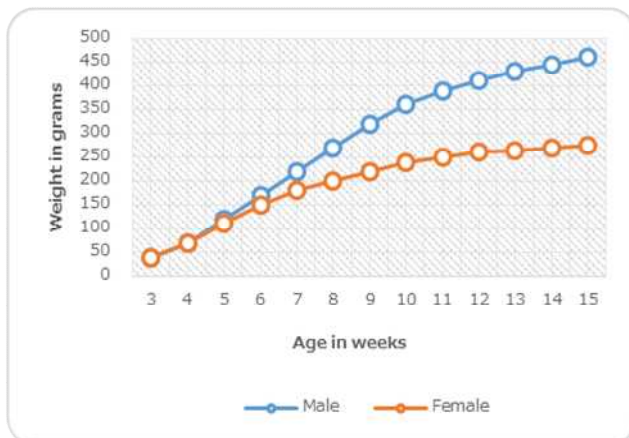
White with black hood

◆ Research Use

- Ophthalmology ¹⁾
- Behavior ²⁾

Growth chart

Feeding quantities



Researches that are written using Iar: Long-Evans rat

- ❑ Puerperal and parental experience alter rat preference for pup odors via changes in the oxytocin system. Arisa MUNETOMO, Hirotaka ASHII, Takenori MIYAMOTO, Yasuo SAKUMA and Yasuhiko KONDO: J.Reprod.Dev.62:2016
- ❑ Transient reversal of olfactory preference following castration on male rats: Implication for estrogen receptor involvement. Kai Xiao, Atsuhiko Chiba, Yasuo Sakuma, Yasuhiko kondo: Physiology & Behavior 152(2015)161-167
- ❑ Hippocampal NMDA receptors are involved in rats' spontaneous object recognition only under high memory load condition. Sugita, M., Yamada, K., Iguchi, N. & Ichitani, Y. (2015) Brain Research, 1624, 370-379.
- ❑ Exposure to social defeat stress in adolescence improves the working memory and anxiety-like behavior of adult female rats with intrauterine growth restriction, independently of hippocampal neurogenesis., Miyako Furuta, Midori Ninomiya-Baba, Shuichi Chiba, Toshiya Funabashi, Tatsuo Akema, Hiroshi Kunugi: Hormones and Behavior 02/2015; 70. DOI:10.1016/j.yhbeh.2015.01.010
- ❑ Retrieval-induced forgetting in rats., Yamada, K., Ueno, M., Takano, E. & Ichitani, Y. Animal Cognition, 17 (6) (2014) : 1407-1411.
- ❑ Estrogen, Predominantly via Estrogen Receptor alpha, Attenuates Postpartum-Induced Anxiety- and Depression-Like Behaviors in Female Rats., Miyako Furuta, Tadahiro Numakawa, Shuichi Chiba, Midori Ninomiya, Yu Kajiyama, Naoki Adachi, Tatsuo Akema, Hiroshi Kunugi: Endocrinology 08/2013; 154(10). DOI:10.1210/en.2012-2136
- ❑ Both olfactory epithelial and vomeronasal inputs are essential for activation of the medial amygdala and preoptic neurons of male rats. Dhungel S1, Masaoka M, Rai D, Kondo Y, Sakuma Y. Neuroscience. 2011 Dec 29;199:225-34. doi: 10.1016/j.neuroscience.2011.09.051. Epub 2011 Oct 1.

• References

- 1) Ceramide-induced cell death in cultured rat retinal pigment epithelial cells.,Tohoku J.Exp.Med.,Tomita H et al,190 (2000) :223-229
- 2) Main and accessory olfactory inputs for the activation of the medial amygdaladuring male sexual behavior in the rat., Soc.Neurosci.Abstr., Kondo Y.et al, 23 (1997) : 1355