Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 12, 2025

B6.Cg-Lep^{ob}/J

RRID:IMSR_JAX:000632
Type: Organism

Proper Citation

RRID:IMSR_JAX:000632

Organism Information

URL: https://www.jax.org/strain/000632

Proper Citation: RRID:IMSR_JAX:000632

Description: Mus musculus with name B6.Cg-Lep^{ob}/J from IMSR.

Species: Mus musculus

Synonyms: B6.V-Lep/J. C57BL/6J-Lep. C57BL/6J-Lep/+

Notes: gene symbol note: leptin; mutant strain|congenic strain: Lep

Affected Gene: leptin

Genomic Alteration: obese

Catalog Number: JAX:000632

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: live

Alternate IDs: IMSR_JAX:632

Organism Name: B6.Cg-Lep^{ob}/J

Record Creation Time: 20230509T193230+0000

Record Last Update: 20250412T090206+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Lep^{ob}/J.

No alerts have been found for B6.Cg-Lep^{ob}/J.

Data and Source Information

Source: Integrated Animals

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 182 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Adamowski M, et al. (2024) Leptin signalling regulates transcriptional differences in granulosa cells from genetically obese mice but not the activation of NLRP3 inflammasome. Scientific reports, 14(1), 8070.

Galanopoulou O, et al. (2024) Endonucleosis mediates internalization of cytoplasm into the nucleus. Nature communications, 15(1), 5843.

Surico PL, et al. (2024) Effects of Diabetes Mellitus on Corneal Immune Cell Activation and the Development of Keratopathy. Cells, 13(6).

Gélineau A, et al. (2024) Fructooligosaccharides benefits on glucose homeostasis upon high-fat diet feeding require type 2 conventional dendritic cells. Nature communications, 15(1), 5413.

Fernández-Beltrán LC, et al. (2024) Leptin haploinsufficiency exerts sex-dependent partial protection in SOD1G93A mice by reducing inflammatory pathways in the adipose tissue. Scientific reports, 14(1), 2671.

Parlakgül G, et al. (2024) Spatial mapping of hepatic ER and mitochondria architecture reveals zonated remodeling in fasting and obesity. Nature communications, 15(1), 3982.

Chong ACN, et al. (2024) Checkpoint kinase 2 controls insulin secretion and glucose homeostasis. Nature chemical biology, 20(5), 566.

Jiang Y, et al. (2024) Central regulation of feeding and body weight by ciliary GPR75. The Journal of clinical investigation, 134(19).

Mattar P, et al. (2024) Insulin and leptin oscillations license food-entrained browning and metabolic flexibility. Cell reports, 43(7), 114390.

Mutlu B, et al. (2024) Small molecules targeting selective PCK1 and PGC-1? lysine acetylation cause anti-diabetic action through increased lactate oxidation. Cell chemical biology, 31(10), 1772.

Xie X, et al. (2024) Adipose Triglyceride Lipase-Mediated Adipocyte Lipolysis Exacerbates Acute Pancreatitis Severity in Mouse Models and Patients. The American journal of pathology, 194(8), 1494.

Pan X, et al. (2024) Krüppel-like factor 10 protects against metabolic dysfunction-associated steatohepatitis by regulating HNF4?-mediated metabolic pathways. Metabolism: clinical and experimental, 155, 155909.

Gregersen I, et al. (2024) T cells with increased responsiveness cause obesity in mice without diet intervention. iScience, 27(4), 109471.

Lee D, et al. (2024) Smooth muscle cell-derived Cxcl12 directs macrophage accrual and sympathetic innervation to control thermogenic adipose tissue. Cell reports, 43(5), 114169.

Andrade MM, et al. (2023) Alteration in the number of neuronal and non-neuronal cells in mouse models of obesity. Brain communications, 5(2), fcad059.

Bhattacharjee J, et al. (2023) Lysophosphatidic acid receptor 1 antagonist (EPGN2154) causes regression of NASH in preclinical NASH models. Hepatology communications, 7(12).

Ferrigno A, et al. (2023) MPEP Attenuates Intrahepatic Fat Accumulation in Obese Mice. International journal of molecular sciences, 24(7).

Wang H, et al. (2023) Dysfunctional T Follicular Helper Cells Cause Intestinal and Hepatic Inflammation in NASH. bioRxiv : the preprint server for biology.

Landowski M, et al. (2023) Transmembrane protein 135 regulates lipid homeostasis through its role in peroxisomal DHA metabolism. Communications biology, 6(1), 8.

Huang L, et al. (2023) A brown fat-enriched adipokine, ASRA, is a leptin receptor antagonist that stimulates appetite. bioRxiv : the preprint server for biology.