

Resource Summary Report

Generated by [NIF](#) on Aug 10, 2026

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: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

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

Record Creation Time: 20250513T053619+0000

Record Last Update: 20260808T050822+0000

Ratings and Alerts

- Used for humanized mouse by the Human Islet Research Network community.
Contact(s): [Kevan Herold](#) - Human Islets Research Network <https://hirnetwork.org/>

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

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 214 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#).

Schmidt A, et al. (2026) Gas plasma therapy of murine and human diabetic wounds is associated with junctional and hippo signaling and oxidative protein modifications. *Redox biology*, 89, 103951.

Suh Y, et al. (2026) Impact of Sex on Plasma Biomarkers in ob/ob Mice. *International journal of molecular sciences*, 27(4).

Ramírez-Romero R, et al. (2026) The leptin fragment Lep116-130 attenuates hedonic consumption and sucrose-seeking in mice. *Frontiers in pharmacology*, 17, 1748508.

Miura A, et al. (2026) Metabolic and epigenetic abnormalities cause hepatic fibrogenesis in metabolic dysfunction-associated steatohepatitis model mice. *The Journal of biological chemistry*, 302(1), 110959.

Belaïdouni Y, et al. (2026) Leptin antagonism improves Rett syndrome phenotype in symptomatic Mecp2-deficient mice. *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*, 23(3), e00910.

Punnakkal AR, et al. (2026) 3D Mitochondria Shape Library for Optical Microscopy (3DMSL): A multimodal dataset for deep learning based mitochondrial analysis. *Data in brief*, 65, 112507.

Schmidt A, et al. (2026) Medical gas plasma modifies Nrf2 signaling in diabetic wound healing. *Journal of advanced research*, 80, 179.

Huang L, et al. (2026) Adissp activates insulin-independent glucose disposal and energy expenditure in white fat to treat diabetes and cardiometabolic disease. *Science advances*, 12(17), eaed2780.

Wagner MR, et al. (2026) Stromal and Neuronal Sources of Slit2/3 Ligands in the Adult Pancreas Exhibit Distinct Expression Patterns Independent of Robo2 Receptor Expression in the Islet. *bioRxiv : the preprint server for biology*.

Weger M, et al. (2026) Feeding-regulated glycogen metabolism drives rhythmic liver protein secretion. *Nature metabolism*, 8(2), 327.

Torrico EC, et al. (2026) High-fat diet causes rapid loss of intestinal group 3 innate lymphoid cells through microbiota-driven inflammation and mitochondrial stress. *Immunity*, 59(4), 988.

McKimpson WM, et al. (2026) Activation of a Yap1-mesenchymal-like program in β -cells during diabetes. *Cell reports*, 45(7), 117596.

Ruiz CF, et al. (2026) Diet-induced phospholipid remodeling dictates ferroptosis sensitivity and tumorigenesis in the pancreas. *Cancer discovery*.

Wang X, et al. (2025) Assessing Wound Healing in Vivo Using a Dual-Function Phosphorescent Probe Sensitive to Tissue Oxygenation and Regenerating Collagen. *ACS applied materials & interfaces*, 17(1), 398.

Gou Y, et al. (2025) AgRP neuron hyperactivity drives hyperglycemia in a mouse model of type 2 diabetes. *The Journal of clinical investigation*, 135(10).

Medharametla S, et al. (2025) Abnormalities in the genioglossus muscle and its neuromuscular synapse in leptin-deficient male mice. *Skeletal muscle*, 15(1), 18.

Xiao L, et al. (2025) Divergent roles of m6A in orchestrating brown and white adipocyte transcriptomes and systemic metabolism. *Nature communications*, 16(1), 533.

Park BI, et al. (2025) Hyperinsulinemia-induced upregulation of adipocyte TPH2 contributes to peripheral serotonin production, metabolic dysfunction, and obesity. *The Journal of clinical investigation*, 135(14).

Montazerian H, et al. (2025) Boosting hydrogel conductivity via water-dispersible conducting polymers for injectable bioelectronics. *Nature communications*, 16(1), 3755.

Sáenz de Miera C, et al. (2025) Nutritionally responsive PMv DAT neurons are dynamically regulated during pubertal transition. *bioRxiv : the preprint server for biology*.