

Resource Summary Report

Generated by ASWG on Sep 20, 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: 20260919T054808+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 [ASWG](#) .

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.

Hof A, et al. (2025) Myeloperoxidase impacts vascular function by altering perivascular adipocytes' secretome and phenotype in obesity. *Cell reports. Medicine*, 6(5), 102087.

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).

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