Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 1, 2025

B6;129S-Oxt$^{tm1.1(cre)Dolsn}$/J

RRID:IMSR_JAX:024234
Type: Organism

Proper Citation

RRID:IMSR_JAX:024234

Organism Information

URL: https://www.jax.org/strain/024234

Proper Citation: RRID:IMSR_JAX:024234

Description: Mus musculus with name B6;129S-Oxt$^{tm1.1(cre)Dolsn}$/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: oxytocin|; mutant stock: Oxt|

Affected Gene: oxytocin|

Genomic Alteration: targeted mutation 1.1; David P Olson

Catalog Number: JAX:024234

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: live

Alternate IDs: IMSR_JAX:24234

Organism Name: B6;129S-Oxt$^{tm1.1(cre)Dolsn}$/J

Record Creation Time: 20230509T193319+0000

Record Last Update: 20240104T175105+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S-Oxt$^{tm1.1(cre)Dolsn}$/J.

No alerts have been found for B6;129S-Oxt$^{tm1.1(cre)Dolsn}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 29 mentions in open access literature.

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

Wolf D, et al. (2024) Oxytocin induces the formation of distinctive cortical representations and cognitions biased toward familiar mice. Nature communications, 15(1), 6274.

Li Y, et al. (2024) Loss of transient receptor potential channel 5 causes obesity and postpartum depression. Cell, 187(16), 4176.

Zhang Y, et al. (2024) Interaction of acetylcholine and oxytocin neuromodulation in the hippocampus. Neuron, 112(11), 1862.

Zhan S, et al. (2024) Oxytocin neurons mediate stress-induced social memory impairment. Current biology : CB, 34(1), 36.

Li H, et al. (2024) Single-neuron projectomes of mouse paraventricular hypothalamic nucleus oxytocin neurons reveal mutually exclusive projection patterns. Neuron.

Gruber T, et al. (2023) High-calorie diets uncouple hypothalamic oxytocin neurons from a gut-to-brain satiation pathway via ?-opioid signaling. Cell reports, 42(10), 113305.

Meng JJ, et al. (2023) Light modulates glucose metabolism by a retina-hypothalamus-brown adipose tissue axis. Cell, 186(2), 398.

Huang YF, et al. (2023) Light disrupts social memory via a retina-to-supraoptic nucleus circuit. EMBO reports, 24(10), e56839.

Liu Y, et al. (2023) Molecular and cellular mechanisms of the first social relationship: A conserved role of 5-HT from mice to monkeys, upstream of oxytocin. Neuron, 111(9), 1468.

Musardo S, et al. (2022) Oxytocin neurons mediate the effect of social isolation via the VTA circuits. eLife, 11.

Choe KY, et al. (2022) Oxytocin normalizes altered circuit connectivity for social rescue of

the Cntnap2 knockout mouse. Neuron, 110(5), 795.

Göz Aytürk D, et al. (2022) Mouse Lines with Cre-Mediated Recombination in Retinal Amacrine Cells. eNeuro, 9(1).

Hu J, et al. (2022) Melanopsin retinal ganglion cells mediate light-promoted brain development. Cell, 185(17), 3124.

Papazoglou I, et al. (2022) A distinct hypothalamus-to-? cell circuit modulates insulin secretion. Cell metabolism, 34(2), 285.

Guo L, et al. (2022) Different oxytocin and corticotropin-releasing hormone system changes in bipolar disorder and major depressive disorder patients. EBioMedicine, 84, 104266.

Yu H, et al. (2022) Social touch-like tactile stimulation activates a tachykinin 1-oxytocin pathway to promote social interactions. Neuron, 110(6), 1051.

Inada K, et al. (2022) Plasticity of neural connections underlying oxytocin-mediated parental behaviors of male mice. Neuron, 110(12), 2009.

Sheng W, et al. (2021) Dendritic osmosensors modulate activity-induced calcium influx in oxytocinergic magnocellular neurons of the mouse PVN. eLife, 10.

Glover LR, et al. (2020) A prefrontal-bed nucleus of the stria terminalis circuit limits fear to uncertain threat. eLife, 9.

Jensen-Cody SO, et al. (2020) FGF21 Signals to Glutamatergic Neurons in the Ventromedial Hypothalamus to Suppress Carbohydrate Intake. Cell metabolism, 32(2), 273.