Resource Summary Report

Generated by NIF on Apr 17, 2025

Pain Genes database

RRID:SCR_004771
Type: Tool

Proper Citation

Pain Genes database (RRID:SCR_004771)

Resource Information

URL: http://www.jbldesign.com/jmogil/enter.html

Proper Citation: Pain Genes database (RRID:SCR_004771)

Description: Database of genes regulated by pain derived from published manuscripts describing results of pain-relevant knockout studies. The database has two levels of exploration: across-gene and within-gene. The across-gene level, the PainGenesdbSelector, is encountered first. All genes in the database can be accessed and sorted by their gene name, protein name, common names and acronyms, or genomic position (by navigating a graphic representation of the mouse genome). The gene and protein names can be selected from an alphabetical list, or by typing a text string into a search box.

Abbreviations: PainGenesdb

Synonyms: PainGenes DB

Resource Type: database, data or information resource

Defining Citation: PMID:17574758

Keywords: knock out mouse, pain sensation, mice, mutant, knockout, gene, genome, protein

Related Condition: Pain

Funding: Louise Edwards Foundation

Resource Name: Pain Genes database

Resource ID: SCR_004771

Alternate IDs: nlx_77039

Record Creation Time: 20220129T080226+0000

Record Last Update: 20250412T054919+0000

Ratings and Alerts

No rating or validation information has been found for Pain Genes database.

No alerts have been found for Pain Genes database.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 15 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Kringel D, et al. (2021) Computational Functional Genomics-Based AmpliSeq™ Panel for Next-Generation Sequencing of Key Genes of Pain. International journal of molecular sciences, 22(2).

Grégoire S, et al. (2021) Epigenetic signature of chronic low back pain in human T cells. Pain reports, 6(4), e960.

Tanaka T, et al. (2020) Teriparatide relieves ovariectomy-induced hyperalgesia in rats, suggesting the involvement of functional regulation in primary sensory neurons by PTH-mediated signaling. Scientific reports, 10(1), 5346.

Campbell CM, et al. (2019) Designing and conducting proof-of-concept chronic pain analgesic clinical trials. Pain reports, 4(3), e697.

Lötsch J, et al. (2018) Use of Computational Functional Genomics in Drug Discovery and Repurposing for Analgesic Indications. Clinical pharmacology and therapeutics, 103(6), 975.

Kringel D, et al. (2018) A machine-learned analysis of human gene polymorphisms modulating persisting pain points to major roles of neuroimmune processes. European journal of pain (London, England), 22(10), 1735.

Barry AM, et al. (2018) Region-Resolved Quantitative Proteome Profiling Reveals Molecular

Dynamics Associated With Chronic Pain in the PNS and Spinal Cord. Frontiers in molecular neuroscience, 11, 259.

Kringel D, et al. (2018) Development of an AmpliSeqTM Panel for Next-Generation Sequencing of a Set of Genetic Predictors of Persisting Pain. Frontiers in pharmacology, 9, 1008.

Ono T, et al. (2014) A novel method for gathering and prioritizing disease candidate genes based on construction of a set of disease-related MeSH® terms. BMC bioinformatics, 15, 179.

Recla JM, et al. (2014) Precise genetic mapping and integrative bioinformatics in Diversity Outbred mice reveals Hydin as a novel pain gene. Mammalian genome : official journal of the International Mammalian Genome Society, 25(5-6), 211.

Norcini M, et al. (2014) An approach to identify microRNAs involved in neuropathic pain following a peripheral nerve injury. Frontiers in neuroscience, 8, 266.

Kasai S, et al. (2013) Reduced supraspinal nociceptive responses and distinct gene expression profile in CXBH recombinant inbred mice. The journal of pain, 14(6), 648.

Sv?tlík S, et al. (2013) Pharmacogenetics of chronic pain and its treatment. Mediators of inflammation, 2013, 864319.

Bubier JA, et al. (2012) Accelerating discovery for complex neurological and behavioral disorders through systems genetics and integrative genomics in the laboratory mouse. Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics, 9(2), 338.

Tremblay J, et al. (2010) Genetics of pain, opioids, and opioid responsiveness. Metabolism: clinical and experimental, 59 Suppl 1, S5.