Resource Summary Report

Generated by NIF on Sep 10, 2026

NIH PRECISION Human Pain Network

RRID:SCR_025458
Type: Tool

Proper Citation

NIH PRECISION Human Pain Network (RRID:SCR_025458)

Resource Information

URL: https://sparc.science/about/consortia/precision

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Description: Project titled Program to Reveal and Evaluate Cells-to-gene Information that Specify Intricacies, Origins, and Nature of Human Pain (PRECISION) Network to develop meaningful resource for knowledge transfer, and to integrate and share Human Pain Associated Genes and Cell Datasets. Building knowledge platform to visualize, query, and interact with these data will support researchers and help accelerate dissemination of vital data to the larger scientific community. These goals align with NIH Helping to End Addiction Long-term (HEAL) Initiative, which seeks to accelerate the discovery and successful translation of non-addictive pain therapeutics. PRECISION Human Pain Network will leverage prior interdisciplinary collaboration to create workflows, tools, and infrastructure to define data and metadata types, to improve data management and sharing, and to integrate datasets and visualization tools.

Synonyms: PRECISION Pain Network

Resource Type: data or information resource, disease-related portal, portal, topical portal

Keywords: Human pain network, human pain associated genes and cell datasets, knowledge platform, HEAL, integrated data,

Funding: NIH

Availability: Free, Freely available

Resource Name: NIH PRECISION Human Pain Network

Resource ID: SCR_025458

Record Creation Time: 20240911T053247+0000

Record Last Update: 20260905T133505+0000

Ratings and Alerts

No rating or validation information has been found for NIH PRECISION Human Pain Network.

No alerts have been found for NIH PRECISION Human Pain Network.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Ahlgreen OA, et al. (2026) Mapping Satellite Glial Cell Heterogeneity Reveals Distinct Spatial Organization and Implies Functional Diversity in the Dorsal Root Ganglion. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(1), e11569.

Lesnak JB, et al. (2026) An improved preservation method for human dorsal root ganglion neurons enables wider access to human molecular pain neuroscience. Cell reports methods, 6(5), 101412.

Mazhar K, et al. (2026) Satellite microglia-like cells in human dorsal root ganglia and changes with diabetic neuropathy. bioRxiv : the preprint server for biology.

Domalogdog KC, et al. (2026) Live cell imaging reveals paclitaxel-induced lysosome motility and function disruption in DRG neurons. bioRxiv : the preprint server for biology.

Arendt-Tranholm A, et al. (2026) Transcriptome of the human C2 dorsal root ganglia in C1-2 arthrodesis surgery: insight for neck pain. Brain : a journal of neurology, 149(4), 1349.

Palomino SM, et al. (2026) Nav1.8 mediates peripheral-to-central nociceptive transmission independently of central presynaptic mechanisms in human DRG-spinal cord circuits. bioRxiv : the preprint server for biology.

Wangzhou A, et al. (2025) Detection of probable neuronal gene expression changes in skin biopsies from patients with paclitaxel-induced peripheral neuropathy. bioRxiv : the preprint server for biology.

Curatolo M, et al. (2025) Patient phenotyping for molecular profiling of neck and low back pain - Study protocol. Neurobiology of pain (Cambridge, Mass.), 18, 100186.

Lesnak JB, et al. (2025) Enabling wider access to human molecular neuroscience research in pain: A simple preservation method for human dorsal root ganglion neurons in Hibernate A media. bioRxiv : the preprint server for biology.

McIlvried LA, et al. (2025) Intrinsic adaptive plasticity in mouse and human sensory neurons. The Journal of general physiology, 157(1).

O'Brien JA, et al. (2025) Peripheral nerve-targeting and pain-promoting transcriptomic signatures in early Guillain-Barré syndrome. bioRxiv : the preprint server for biology.

Shiers SI, et al. (2025) Nageotte nodules in human dorsal root ganglia reveal neurodegeneration in diabetic peripheral neuropathy. Nature communications, 16(1), 4168.

Arendt-Tranholm A, et al. (2025) Single-cell characterization of the human C2 dorsal root ganglion recovered from C1-2 arthrodesis surgery: implications for neck pain. bioRxiv : the preprint server for biology.

Franco-Enzástiga Ú, et al. (2025) Type I IFNs enhance human dorsal root ganglion nociceptor excitability and induce TRPV1 sensitization. JCI insight, 10(19).

Gabriel KA, et al. (2025) A molecular map of the human spinal dorsal and ventral horn defines arrangement of neuronal types and glial sex differences. bioRxiv : the preprint server for biology.

Davis OC, et al. (2025) Glutamatergic and GABAergic Synapses in the Human Spinal Dorsal Horn Revealed With Immunohistochemistry. The Journal of comparative neurology, 533(10), e70091.

Newton MD, et al. (2025) Cross-platform transcriptomic data integration identifies an overactive neuro-immune signature in human osteoarthritis synovium. Osteoarthritis and cartilage.

O'Brien JA, et al. (2025) Ectopic Nociceptor Sprouting as a Key Peripheral Driver of Pain in Rheumatoid Arthritis. Current rheumatology reports, 27(1), 30.

Mwirigi JM, et al. (2025) Expansion of OSMR expression and signaling in the human dorsal root ganglion links OSM to neuropathic pain. bioRxiv : the preprint server for biology.

O'Brien JA, et al. (2025) Neuropharmacology and physiology of human dorsal root ganglion neurons responsible for nociception: state-of-the-art and future directions. Pain, 166(11S), S8.