Resource Summary Report

Generated by dkNET on Apr 16, 2025

SPARC Project

RRID:SCR_017041
Type: Tool

Proper Citation

SPARC Project (RRID:SCR_017041)

Resource Information

URL: https://sparc.science

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Description: The SPARC data repository as of 2023 is an open data repository developed as part of the NIH SPARC initiative and has been used by SPARC funded investigator groups to curate and publish high quality datasets related to the autonomic nervous system. We are thrilled that as of August 2022, SPARC is accepting datasets from investigators that are not funded through the NIH SPARC program. The NIH's Common Fund Stimulating Peripheral Activity to Relieve Conditions (SPARC) program aims to transform our understanding of these nerve-organ interactions and ultimately advance neuromodulation field toward precise treatment of diseases and conditions for which conventional therapies fall short.

Abbreviations: SPARC.science

Synonyms: , SPARC Repository, Stimulating Peripheral Activity to Relieve Conditions, SPARC Portal

Resource Type: data repository, service resource, storage service resource

Defining Citation: PMID:34248680, DOI:10.1101/2021.02.10.430563

Keywords: Nervous system, periphery, organ, human, FASEB list, repository, curated

Funding: NIH Office of the Director OD025349;
NIH Office of the Director OD030213;
NIH Office of the Director OD032619;
NIH Office of the Director OD030541;
NIH Office of the Director OD026585;

NIH Office of the Director OD024908;
NIH Office of the Director OD025306;
NIH Office of the Director OD023849

Availability: Free, Freely available, Public, Acknowledgement requested

Resource Name: SPARC Project

Resource ID: SCR_017041

Alternate IDs: DOI:10.26275

Alternate URLs: https://commonfund.nih.gov/sparc, https://docs.sparc.science/, https://data.sparc.science/, https://doi.org/10.26275, https://doi.dx/10.26275, https://sparc.science/data?type=dataset

License: CC-BY license (unless otherwise specified)

License URLs: https://docs.sparc.science/docs/terms-of-service

Record Creation Time: 20220129T080333+0000

Record Last Update: 20250416T063811+0000

Ratings and Alerts

No rating or validation information has been found for SPARC Project.

No alerts have been found for SPARC Project.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 107 mentions in open access literature.

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

Bueckle A, et al. (2025) Construction, Deployment, and Usage of the Human Reference Atlas Knowledge Graph for Linked Open Data. bioRxiv : the preprint server for biology.

Sorensen L, et al. (2024) Gut Analysis Toolbox - automating quantitative analysis of enteric neurons. Journal of cell science, 137(20).

Tompkins JD, et al. (2024) Comparative specialization of intrinsic cardiac neurons in

humans, mice, and pigs. bioRxiv : the preprint server for biology.

Glass TJ, et al. (2024) Developmental deglutition and intrinsic tongue muscle maturation phenotypes in the Ts65Dn mouse model of Down syndrome. Frontiers in neurology, 15, 1461682.

Verma N, et al. (2023) Microneurography as a minimally invasive method to assess target engagement during neuromodulation. Journal of neural engineering, 20(2).

Jaffey DM, et al. (2023) Vagal preganglionic axons arborize in the myenteric plexus into two types: nitrergic and non-nitrergic postganglionic motor pools? American journal of physiology. Regulatory, integrative and comparative physiology, 324(3), R305.

Blanz SL, et al. (2023) Spatially selective stimulation of the pig vagus nerve to modulate target effect versus side effect. Journal of neural engineering, 20(1).

Münzberg H, et al. (2023) Sensory spinal interoceptive pathways and energy balance regulation. Molecular metabolism, 78, 101817.

Ma J, et al. (2023) Spinal afferent innervation in flat-mounts of the rat stomach: anterograde tracing. Scientific reports, 13(1), 17675.

Yang PC, et al. (2023) A multiscale predictive digital twin for neurocardiac modulation. The Journal of physiology, 601(17), 3789.

Zhang Y, et al. (2023) Topographical mapping of catecholaminergic axon innervation in the flat-mounts of the mouse atria: a quantitative analysis. Scientific reports, 13(1), 4850.

Ivich F, et al. (2023) Ratiometric fluorescence sensing and quantification of circulating blood sodium sensors in mice in vivo. Biomedical optics express, 14(11), 5555.

Gee MM, et al. (2023) Closed-loop modeling of central and intrinsic cardiac nervous system circuits underlying cardiovascular control. AIChE journal. American Institute of Chemical Engineers, 69(4).

Buyukcelik ON, et al. (2023) Deep-learning segmentation of fascicles from microCT of the human vagus nerve. Frontiers in neuroscience, 17, 1169187.

Chen J, et al. (2023) Neuromodulation for functional upper gastrointestinal diseases. Gut microbiota and integrative wellness, 1.

Davis CJ, et al. (2023) Fibers in smaller fascicles have lower activation thresholds with cuff electrodes due to thinner perineurium and smaller cross-sectional area. Journal of neural engineering, 20(2).

Musselman ED, et al. (2023) Validated computational models predict vagus nerve stimulation thresholds in preclinical animals and humans. Journal of neural engineering, 20(3).

Ma J, et al. (2023) Mapping the Organization and Morphology of Calcitonin Gene-Related Peptide (CGRP)-IR Axons in the Whole Mouse Stomach. bioRxiv : the preprint server for biology.

Gee MM, et al. (2023) Unpacking the multimodal, multi-scale data of the fast and slow lanes of the cardiac vagus through computational modelling. Experimental physiology.

Elfers K, et al. (2023) Distension evoked mucosal secretion in human and porcine colon in vitro. PloS one, 18(4), e0282732.