Resource Summary Report

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NIA Aged Rodent Colonies

RRID:SCR_007317
Type: Tool

Proper Citation

NIA Aged Rodent Colonies (RRID:SCR_007317)

Resource Information

URL: http://www.nia.nih.gov/research/dab/aged-rodent-colonies-handbook

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Description: Colonies of barrier-raised, Specific Pathogen-Free (SPF) rodents under contractual arrangement with commercial vendors, specifically for use in aging research. They are not available for use as a general source of adult animals for unrelated areas of research. Animals from the NIA aged rodent colonies are available to investigators at academic and non-profit research institutions under the terms described on the Eligibility Criteria page. Orders must be submitted through the online rodent ordering system (ROS) (http://arc.niapublications.org/acb/stores/1/). Available strains: * Inbred Rats: Fischer 344 (F344), Brown Norway (BN) * Hybrid Rats: F344xBN F1 (F344BN); * Inbred Mice: BALB/cBy, CBA, C57BL/6, DBA/2 * Hybrid Mice: CB6F1 (BALB/cBy x C57BL/6), B6D2F1 (C57BL/6 x DBA/2) * Caloric Restricted Rats: F344 (males only), F344BN F1 (males only) * Caloric Restricted Mice: C57BL/6; B6D2F1 (males only)

Abbreviations: Aged Rodent Colonies

Synonyms: NIA Aged Rodent Colonies Handbook, Aged Rodent Colonies Handbook, Aging-Related Rodent Colonies, Aging-Related Rat Colonies

Resource Type: biomaterial supply resource, material resource, organism supplier

Keywords: rodent, inbred mouse strain, inbred rat strain, hybrid rat strain, hybrid mouse strain, caloric restricted, male, mouse strain, adult mouse, rat strain

Related Condition: Aging, Inbred mouse strain, Inbred rat strain, Hybrid rat strain, Hybrid mouse strain, Caloric Restricted

Funding: NIA ;
NIH Blueprint for Neuroscience Research

Availability: Public: For use in aging research only. Available to investigators at academic and non-profit research institutions - see Eligibility Criteria page.

Resource Name: NIA Aged Rodent Colonies

Resource ID: SCR_007317

Alternate IDs: nif-0000-00184

Old URLs: http://www.nia.nih.gov/ResearchInformation/ScientificResources/default.htm

Record Creation Time: 20220129T080241+0000

Record Last Update: 20260912T195653+0000

Ratings and Alerts

No rating or validation information has been found for NIA Aged Rodent Colonies.

No alerts have been found for NIA Aged Rodent Colonies.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 26 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Barach GL, et al. (2026) Age-related differences in asymmetric synapses across the central inferior colliculus in the Fischer Brown Norway rat. Aging brain, 9, 100158.

Kaya U, et al. (2026) Sleep lowers waking theta frequency in the rat hippocampus. Cell reports, 45(7), 117593.

Huang W, et al. (2026) Core gastric microbiota linked to pathogenesis and preserved across age-stratified cohorts. Cell reports. Medicine, 7(7), 102905.

Smallridge DZ, et al. (2026) Age-related ultrastructural differences in the dorsal cortex of the inferior colliculus in the fischer brown Norway rat. Neurobiology of aging, 157, 1.

Carpenter RS, et al. (2026) Aging disrupts sympathetic innervation of the thymus. Cell reports, 45(4), 117126.

Almassri LS, et al. (2026) Clarin-1 mRNA expression in the central auditory system of Fischer Brown Norway rats. Hearing research, 479, 109713.

Almassri LS, et al. (2025) Ultrastructural characterization of neuropeptide Y synapses in the central inferior colliculus of the Fischer Brown Norway rat. Neuropeptides, 114,

102566.

Almassri LS, et al. (2025) Neuropeptide Y mRNA expression in the aging inferior colliculus of fischer brown norway rats. Frontiers in aging neuroscience, 17, 1626021.

Wawrzyniak A, et al. (2025) Age-related differences in GABAergic synapses across the central inferior colliculus in the Fischer Brown Norway rat. Neurobiology of aging, 153, 30.

Mellott JG, et al. (2024) Age-related upregulation of dense core vesicles in the central inferior colliculus. Frontiers in cellular neuroscience, 18, 1396387.

Palmer JW, et al. (2024) Quiescence and aging of melanocyte stem cells and a novel association with programmed death-ligand 1. iScience, 27(10), 110908.

Alvarez-Kuglen M, et al. (2024) ImAge quantitates aging and rejuvenation. Nature aging, 4(9), 1308.

Almassri LS, et al. (2023) Age-related upregulation of perineuronal nets on inferior collicular cells that project to the cochlear nucleus. Frontiers in aging neuroscience, 15, 1271008.

Petrashen AP, et al. (2023) A cluster of X-linked miRNAs are de-repressed with age in mouse liver and target growth hormone signaling. Frontiers in aging, 4, 1261121.

Alvarez-Kuglen M, et al. (2023) Imaging-based chromatin and epigenetic age, ImAge, quantitates aging and rejuvenation. Research square.

Koehler CC, et al. (2023) Age-related Changes of GAD1 mRNA Expression in the Central Inferior Colliculus. Translational medicine of aging, 7, 20.

Mafi AM, et al. (2022) Age-related ultrastructural changes in the lateral cortex of the inferior colliculus. Neurobiology of aging, 120, 43.

Mafi AM, et al. (2021) Inferior collicular cells that project to the auditory thalamus are increasingly surrounded by perineuronal nets with age. Neurobiology of aging, 105, 1.

Santeford A, et al. (2021) Loss of Mir146b with aging contributes to inflammation and mitochondrial dysfunction in thioglycollate-elicited peritoneal macrophages. eLife, 10.

Noftz WA, et al. (2021) Dense cholinergic projections to auditory and multisensory nuclei of the intercollicular midbrain. Hearing research, 411, 108352.