

# 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:** 20260808T185906+0000

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## 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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 26 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [T1D](#) .

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.