

Resource Summary Report

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National Bio Resource Project for the Rat.

RRID:SCR_012774

Type: Tool

Proper Citation

National Bio Resource Project for the Rat. (RRID:SCR_012774)

Resource Information

URL: <http://www.anim.med.kyoto-u.ac.jp/nbr/default.aspx>

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Description: NBRP-Rat was established to overcome limitations associated with properly utilizing existing rat resources. The collection of existing strains and genetic sub strains, phenotypic and genotypic characterization, cryopreservation of embryos, distribution of the collected rat strains, and a publicly accessible database of all assembled data are the major goals of this project. Once achieved, this unique database including the unique rat strains will become a powerful tool for biomedical research. A catalog of comparable, standardized and well characterized rat strains will lead to new and more precise research topics as well as it will facilitate biomedical sciences, drug discovery, advanced chemical research, and contributes to life sciences worldwide. As mentioned before, the major goals of NBRP-Rat are the collection, preservation and supply of rat strains. The repository includes strains from Japan and abroad, spontaneous mutants, congenic and recombinant strains as well as transgenic and mutagenized rats. Deposited rat strains are not only conserved as cryopreserved embryos and sperm. Many reference and frequently used rat strains are also maintained as living animals under SPF conditions. Furthermore, NBRP-rat provides a unique database on various rat strain phenotypes accompanied with basic genetic information. This allows scientists the selection of standardized and research specific strains. The animals themselves are provided free of charge to the research community (except for shipping costs). Sponsors: This project is one part of the National BioResource Projects (NBRP) in Japan for more than 20 species including animals, plants, microbes, tissues and DNAs. It is founded by the Japanese Ministry of Education, Culture, Sports, Science and Technology (Monkasho) and started in 2002.

Synonyms: NBRP-Rat

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

Keywords: drug, embryo, gene, genetic, animal, biology, biomedical, characterization, chemical, cryopreservation, database, genotypic, mutant, phenotypic, rat, recombinant,

research, science, scientist, sperm, spontaneous, strain, transgenic

Resource Name: National Bio Resource Project for the Rat.

Resource ID: SCR_012774

Alternate IDs: nif-0000-32936

Record Creation Time: 20220129T080312+0000

Record Last Update: 20260801T190749+0000

Ratings and Alerts

No rating or validation information has been found for National Bio Resource Project for the Rat..

No alerts have been found for National Bio Resource Project for the Rat..

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 28 mentions in open access literature.

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

Mizuno-Iijima S, et al. (2024) Mammalian genome research resources available from the National BioResource Project in Japan. Mammalian genome : official journal of the International Mammalian Genome Society, 35(4), 497.

Ishizuka Y, et al. (2024) In vivo fertilization improved the cryotolerance and developmental ability of vitrified-warmed rat fertilized oocytes. Scientific reports, 14(1), 24198.

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Xie K, et al. (2019) Quantifying changes in the bacterial thiol redox proteome during host-pathogen interaction. Redox biology, 21, 101087.

Wang SJ, et al. (2019) Integrated curation and data mining for disease and phenotype models at the Rat Genome Database. Database : the journal of biological databases and curation, 2019.

Nonaka L, et al. (2018) Interplay of a non-conjugative integrative element and a conjugative plasmid in the spread of antibiotic resistance via suicidal plasmid transfer from an aquaculture Vibrio isolate. PloS one, 13(6), e0198613.

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- Igarashi H, et al. (2018) Targeted expression of step-function opsins in transgenic rats for optogenetic studies. *Scientific reports*, 8(1), 5435.
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