

Comprehensive Study on the Effective Use of Laboratory Animals which have been Developed and held in Different Institutions

メタデータ	言語: jpn 出版者: 公開日: 2022-05-23 キーワード (Ja): キーワード (En): 作成者: Hayakawa, Jun-ichiro メールアドレス: 所属:
URL	https://doi.org/10.24517/00057269

This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 3.0 International License.



1991 Fiscal Year Final Research Report Summary

Comprehensive Study on the Effective Use of Laboratory Animals which have been Developed and held in Different Institutions

Research Project

Project/Area Number

01304055

Research Category

Grant-in-Aid for Co-operative Research (A)

Allocation Type

Single-year Grants

Research Field

Laboratory animal science

Research Institution

Kanazawa University

Principal Investigator

HAYAKAWA Jun-ichiro Kanazawa University School of medicine Associate Professor, 医学部, 助教授 (50110622)

Co-Investigator(Kenkyū-buntansha)

KASAI Magosaburo Kouchi University, College of Agriculture, Associate Professor, 農学部, 助教授 (60152617)

KASAI Noriyuki Hokkaido University School of Medicine Associate Professor, 医学部, 助教授 (60001947)

KAGIYAMA Naoko Central Institute for Laboratory Animals, Laboratory Animal Medicine, Chief, 室長 (50124269)

HANDA Sumio Kyushu University School of Medicine Associate Professor, 医学部, 助教授 (50037503)

MORIWAKI Kazuo National Institute of Genetics Cytogenetics, Professor, 細胞遺伝研究部門, 教授 (50000229)

Project Period (FY)

1989 – 1990

Keywords

Laboratory animals / Information / Database / Microbiology / Genetics / Embryo freezing / Embryo transportation

Research Abstract

The results of this two-year co-operative research indicate that at the present the following methods on information, quality control, transportation of laboratory animals are best for the mutual utilization of the animals between the different institutions.

(1) Construction and use of database. The distribution of diskette which is operated by MS-DOS is the most effective to use the database on the laboratory animals, because most institutions have installed microcomputers which operated by the system but not on-line operated computer system.

(2) Quality control of animals. ELISA kit for the detection of the antibodies against the specific pathogens is simple and effective for microbiological quality control. Enzyme electrophoresis by a simple device which developed during this research could be used for genetic quality control of mice and rats.

(3) Transportation of animals. Non-frozen and frozen embryos can be transferred between the institutions. The methods are promised future use for the transportation of animals.

Research Products (12 results)

All Other

All Publications (12 results)

[Publications] T.Koizumi,M.Katsuki,M.Kimura,J.Hayakawa: "Localization of the gene encoding myelin basic protein in mouse chromosome 18E3→4 and rat chromosome 1p11→p12." Cytogenetics & Cell Genetics. ▼

[Publications] S.Tanaka,K.Moriwaki et al.: "Gene responsible for deficient activity of the subunit of C8,eighth component of complement,is located on chromosome 4." Immunogenetics. 33. 18-23 (1991) ▼

[Publications] T.Higashiguchi,J.Yamada et al.: "Identification of inbred strains of rats by DNA fingerprints using chemiluminescence." Transpl.Proc.22. 2564-2565 (1990) ▼

[Publications] N.Kagiyama et al.: "Studies on the development of an ELISA kit for microbiological monitoring.Evaluation of the reliability of prototype kit by field test." Exp.Anim.39. 89-96 (1990) ▼

[Publications] T.Miyoshi,N.Kasai et al.: "Useful short-range transport of mouse embryos by mean of a nonfreezing technique." Laboratory Animal Sci. ▼

[Publications] M.Kasai et al.: "A simple method for mouse embryo cryoreservation in a low toxicity vitrification solution,without appreciable loss of viability." J.Reprod.Fert.89. 91-97 (1990) ▼

[Publications] T. Koizumi, M. Katsuki, M. Kimura and J. Hayakawa: "Localization of the gene encoding myelin basic protein in mouse chromosomes and rat chromosomes" Cytogenetics & Cell Genetics. (1991) ▼

[Publications] S. Tanaka, K. Moriwaki et al.: "Gene responsible for deficient activity of the subunit of C8, eighth component of complement is located on chromosome 4." Immunogenetics. 33. 18-23 (1991) ▼

[Publications] T. Higashiguchi, J. Yamada et al.: "Identification of inbred strains of rats by DNA fingerprints using chemiluminescence." Transpl. Proc.22. 2564-2565 (1990) ▼

[Publications] N. Kagiyama et al.: "Studies on the development of an ELISA kit for microbiological monitoring. Evaluation of reliability of prototype kit by field test." Exp. Anim.39. 89-96 (1990) ▼

[Publications] T. Miyoshi, N. Kasai et al.: "Useful short-range transport of mouse embryos by means of a nonfreezing technique" Laboratory Animal Science. ▼

[Publications] M. Kasai et al.: "A simple method for mouse embryo cryoreservation in a low toxicity vitrification solution, without appreciable loss of viability." J. Reprod. Fert.89. 91-97 (1990) ▼

URL: https://kaken.nii.ac.jp/report/KAKENHI-PROJECT-01304055/013040551991kenkyu_seika_hokoku_

Published: 1993-03-15