

1. Record Nr.	UNINA9910446560303321
Autore	Willan, R.I.
Titolo	Guide de manipulation des semences forestières : dans le cas particulier des régions tropicales / Etabli par R.L. Willan pour le Centre des semences forestières de DANIDA
Pubbl/distr/stampa	Roma, : FAO, 1992
ISBN	92-5-202291-0 1014-2894
Descrizione fisica	444 p. : ill. ; 28 cm
Collana	Étude FAO: Forêts ; 020
Disciplina	634.9564
Locazione	FAGBC
Collocazione	60 COLL. FAO 02/020 2
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910970118603321
Titolo	Immunodeficient rodents : a guide to their immunobiology, husbandry, and use // Committee on Immunologically Compromised Rodents, Institute of Laboratory Animal Resources, Commission on Life Sciences, National Research Council
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1989
ISBN	9786610215003 9781280215001 1280215003 9780309536332 0309536332 9780585028798 0585028796
Edizione	[1st ed.]
Descrizione fisica	1 online resource (256 p.)
Disciplina	599.32/30429
Soggetti	Immunological deficiency syndromes - Animal models Rodents - Immunology Rodents as laboratory animals
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Immunodeficient Rodents -- Copyright -- Preface -- Contents -- 1 Introduction -- IMMUNE SYSTEM FUNCTION -- Host Defense Systems -- The Nature of Adaptive Immunity -- Immunologic Specificity -- Afferent, Central, and Efferent Limbs of the Immune System -- Afferent Limb -- Central Limb -- Efferent Limb -- Immunodeficiency -- EFFECT OF ENVIRONMENTAL FACTORS ON IMMUNE FUNCTION -- Noninfectious Agents -- Infectious Agents -- GENERAL CONSIDERATIONS FOR MAINTAINING IMMUNODEFICIENT RODENTS -- MUTATIONS -- GENE MARKERS AND CHROMOSOME MAPS -- NOMENCLATURE AND SOURCES OF IMMUNODEFICIENT RODENTS -- General Reading -- 2 Hereditary Immunodeficiencies -- MICE WITH SINGLE MUTATIONS -- Bcgr, Bcgs (Resistance and Susceptibility to Mycobacterium bovis) -- Ityr, Itys (Resistance and Susceptibility to Salmonella... -- Genetics --

Pathophysiology -- Husbandry -- Reproduction -- bg (Beige) --  
Genetics -- Pathophysiology -- Husbandry -- Reproduction -- db  
(Diabetes) -- Genetics -- Pathophysiology -- Husbandry --  
Reproduction -- df (Ames Dwarf) -- Genetics -- Pathophysiology --  
Husbandry -- Reproduction -- Dh (Dominant Hemimelia) -- Genetics  
-- Pathophysiology -- Husbandry -- Reproduction -- dw (Dwarf) --  
Genetics -- Pathophysiology -- Husbandry -- Reproduction -- gl  
(Grey-Lethal) -- Genetics -- Pathophysiology -- Husbandry --  
Reproduction -- gld (Generalized Lymphoproliferative Disease) --  
Genetics -- Pathophysiology -- Husbandry -- Reproduction -- Hc0  
(Hemolytic Complement Absent) -- Genetics -- Pathophysiology --  
Husbandry -- Reproduction -- hr (Hairless) -- hrrh (Rhino) -- Genetics  
-- Pathophysiology -- Husbandry -- Reproduction -- lh (Lethargic) --  
Genetics -- Pathophysiology -- Husbandry -- Reproduction -- lpr  
(Lymphoproliferation) -- Genetics -- Pathophysiology -- Husbandry --  
Reproduction -- Lpsd (Lipopolysaccharide Response, Defective) --  
Genetics.  
Pathophysiology -- Husbandry -- Reproduction -- Me (Motheaten) --  
Mev (Viable Motheaten) -- Genetics -- Pathophysiology -- Husbandry  
-- Reproduction -- mi (Microphthalmia) -- Genetics --  
Pathophysiology -- Husbandry -- Reproduction -- nu (Nude) -- nustr  
(Streaker) -- Genetics -- Pathophysiology -- Husbandry --  
Reproduction -- ob (Obese) -- Genetics -- Pathophysiology --  
Husbandry -- Reproduction -- oc (Osteosclerotic) -- Genetics --  
Pathophysiology -- Husbandry -- Reproduction -- op (Osteopetrosis)  
-- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- scid  
(Severe Combined Immunodeficiency) -- Genetics -- Pathophysiology  
-- Husbandry -- Reproduction -- Tol-1 (Tolerance to Gamma-  
Globulin) -- Genetics -- Pathophysiology -- Husbandry --  
Reproduction -- vit (Vitiligo) -- Genetics -- Pathophysiology --  
Husbandry -- Reproduction -- W (Dominant Spotting) -- Wv (Viable  
Dominant Spotting) -- Genetics -- Pathophysiology -- Husbandry --  
Reproduction -- wst (Wasted) -- Genetics -- Pathophysiology --  
Husbandry -- Reproduction -- xid (X-Linked Immune Deficiency) --  
Genetics -- Pathophysiology -- Husbandry -- Reproduction -- Yaa (Y-  
Linked Autoimmune Accelerator) -- Genetics -- Pathophysiology --  
Husbandry -- Reproduction -- S-Region-Linked Genes Controlling  
Murine C4 -- Genetics and Pathophysiology -- Husbandry --  
Reproduction -- MICE WITH MULTIPLE MUTATIONS -- gld (Generalized  
Lymphoproliferative Disease) -- xid (X-Linked Immune Deficiency) --  
lpr (Lymphoproliferation) -- nu (Nude) -- lpr (Lymphoproliferation) --  
xid (X-Linked Immune Deficiency) -- lpr (Lymphoproliferation) -- Yaa  
(Y-Linked Autoimmune Accelerator) -- nu (Nude) -- bg (Beige) -- nu  
(Nude) -- xid (X-Linked Immune Deficiency) -- nu (Nude) -- bg (Beige)  
-- xid (X-Linked Immune Deficiency) -- nu (Nude) -- Dh (Dominant  
Hemimelia) -- Yaa (Y-Linked Autoimmune Accelerator) -- bg (Beige).  
Yaa (Y-Linked Autoimmune Accelerator) -- xid (X-Linked Immune  
Deficiency) -- INBRED STRAINS OF MICE -- BSVR, BSVS -- Genetics --  
Pathophysiology -- Husbandry -- Reproduction -- BXSb/Mp Females  
-- Genetics -- Pathophysiology -- Husbandry -- Reproduction --  
DBA/2Ha -- Genetics -- Pathophysiology -- Husbandry --  
Reproduction -- MRL/Mp -- Genetics -- Pathophysiology --  
Husbandry -- Reproduction -- NOD (Non-Obese Diabetic) -- Genetics  
-- Pathophysiology -- Husbandry -- Reproduction -- NON (Non-  
Obese Normal) -- Genetics -- Pathophysiology -- Husbandry --  
Reproduction -- NZB (New Zealand Black) -- Genetics --  
Pathophysiology -- Husbandry -- Reproduction -- NZB x NZW F1  
Hybrids -- Pathophysiology -- Husbandry -- Reproduction -- NZB x

SWR F1 or SWR x NZB F1 Hybrids -- Genetics -- Pathophysiology -- PN (Palmerston North) -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- SAM-P (Senescence Accelerated Mouse) -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- SJL/J -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- SL/Ni -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- OUTBRED MICE -- SWAN (Swiss Antinuclear) -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- RAT MUTANTS -- ia (Incisor Absent) -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- op (Osteopetrosis) -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- rnu (Rowett Nude) -- rnuN (nznu, New Zealand Nude) -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- tl (Toothless) -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- C4 Deficiency -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- INBRED STRAINS OF RATS -- BB/Wor and Other Sublines -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- LOU/C -- GUINEA PIG MUTANTS -- C2 Deficiency -- Genetics -- Pathophysiology -- Husbandry. Reproduction -- C3 Deficiency -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- C4 Deficiency -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- HAMSTER MUTANTS -- nu (Nude) -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- C6 Deficiency -- Genetics -- Pathophysiology -- Husbandry -- Reproduction -- 3 Induced Immunodeficiencies -- CHEMICAL INDUCERS -- Diethylstilbestrol -- Heavy Metals -- Lead -- Cadmium -- Phenols -- Alkylating Agents -- Glucocorticoids -- INFECTIOUS AGENTS -- NUTRITION -- IONIZING AND ULTRAVIOLET RADIATION -- BIOLOGICAL INDUCERS -- THYMECTOMY -- 4 Maintenance of Rodents Requiring Isolation -- GENERAL CONSIDERATIONS -- SPECIAL FACILITIES AND EQUIPMENT -- Plastic Cages with Filter Covers -- HEPA-Filtered Laminar-Air-Flow Systems -- Germfree Isolators -- Individually Ventilated Cage Racks -- SPECIALIZED HUSBANDRY -- General Considerations -- Environmental Conditions -- Temperature -- Humidity, Ventilation, and Lighting -- Food and Water -- Bedding -- CONTROL OF INFECTION -- Arrival of Stock from Commercial Sources and Transfer of Animals -- Disease Surveillance -- 5 Mating Systems for Mutants -- INBREEDING -- Brother x Sister Inbreeding -- Brother x Sister Inbreeding with Homozygosity -- Brother x Sister Inbreeding with Forced Heterozygosity -- Inbreeding a Balanced Stock -- Transferring a Mutation to an Inbred Background -- Backcross Matings -- Cross-Intercross Matings Using Homozygotes -- Cross-Intercross Matings Using Heterozygotes -- Cross-Intercross Matings Using Ovarian Transplantation -- PROPAGATION WITHOUT INBREEDING -- Transferring a Mutation to a Hybrid Background -- Backcross Matings -- Cross-Intercross Matings -- Cross-Intercross Matings Using Ovarian Transplantation -- 6 Genetic Mechanisms Governing Resistance or Susceptibility to Infectious Diseases -- References -- Appendix. Glossary -- Index.

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## Sommario/riassunto

This volume is an indispensable reference on the nature of immune defects in rodents and the special techniques necessary to maintain and breed them. The authors describe 64 inbred, hybrid, and mutant strains of rodents, each with some immune defect; explain mechanisms for ensuring genetic purity; and provide a standardized nomenclature for different varieties. Subsequent sections summarize and provide references on the genetics, pathophysiology, husbandry, and reproduction of each of the various strains as well as sound advice on planning for the selection, transportation, housing, and maintenance of

these animals.

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