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Reproduction -- df (Ames Dwarf) -- Genetics -- Pathophysiology --
Husbandry -- Reproduction -- Dh (Dominant Hemimelia) -- Genetics
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Pathophysiology -- Husbandry -- Reproduction -- Me (Motheaten) --
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(Nude) -- xid (X-Linked Immune Deficiency) -- nu (Nude) -- bg (Beige)
-- xid (X-Linked Immune Deficiency) -- nu (Nude) -- Dh (Dominant
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-- Pathophysiology -- Husbandry -- Reproduction -- NON (Non-
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Pathophysiology -- Husbandry -- Reproduction -- NZB x NZW F1
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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.

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.
