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BUF, Rat Strain

National Cancer Institute

Source

National Cancer Institute. *BUF, Rat Strain*. NCI Thesaurus. Code C14396.

Derived from Buffalo stock of H. Morris to the NIH in 1950 and disseminated from Charles River since 1998, the Buffalo is a white albino rat, genotype c. The incidence of spontaneous tumor formation includes anterior pituitary and adrenal cortex in upwards of 30% of aged rats. The Buffalo rat is used most commonly in oncology and carcinogenesis research. Low incidence of dental caries. Spontaneous tumors of anterior pituitary 30%, and of adrenal cortex 25% in older animals. Survival 58% at 2 years of age with thyroid carcinoma in 25% (Lindsey et al 1968). Low incidence of renal neoplasms (Snell 1967). High incidence of tumors of the anterior pituitary, adrenal medulla and adrenal cortex in animals over 18 months old (Snell 1965).