
The Rat A Study In Behavior

rats - biology & husbandry - research - rats - biology & husbandry • *rattus norvegicus* (2n=42): the "norway rat" is thought to have originated in temperate asia. it expanded into europe in the 8th century and eventually into the americas in the late 1700's. by now it spread worldwide. the name of "norway rat" has no particular geographic **the facts about rats** - the black rat, primarily an arboreal species, is an expert climber and wire scaler, and moderately susceptible to plague infection. this rat is found in agricultural areas, wooded gulches, kiawe forests, and both wet and dry forests. the black rat has now displaced the norway rat as the most common **rrrrenewal agreement travel "rat" "rat** - "dodds rat travel voucher" traveler's chec klist for civilian rat settlement voucher (dd1351 -2) updated 11 may 2009 in block 15block 15block 15, columns (a) through (e) must be completed using dates and not times, modes of travel, and reason for stops. refer to the reverse page of the dd 1351-2 for correct "modes of **norway rats - icwdm home page** - the norway rat (*rattus norvegicus*, fig. 1) is a stocky burrowing rodent, unin-tentionally introduced into north america by settlers who arrived on ships from europe. also called the brown rat, house rat, barn rat, sewer rat, gray rat, or wharf rat, it is a slightly larger animal than the roof rat (fig. 2). adult norway rats weigh an **calculation of rat breathing rate based on bodyweight** - rat breathing rate is a sensitive parameter in models used to characterize health risks, and predictive models of minute volume in rats are available in the peer-reviewed literature and in government reports. a comprehensive analysis of rat minute volume data has not been undertaken since 1988, and since that time, new methods to assess **rat and mouse control - university of florida** - rat and mouse control 2 norway rats in florida, norway rats are most common along the sea coasts and canals. they thrive particularly in areas where garbage is not properly stored. although norway rats generally prefer to eat fresh meat, fish, and grain, they can survive quite well on an ounce per day of garbage or **the laboratory rat (handbook of experimental animals)** - the laboratory rat, like its wild counterpart, is an extremely intelligent animal, probably more so than the other rodents commonly used for biomedical research. this is reflected in its behaviour and, when treated properly and sympathetically, its tolerance to handling and restraint. although feared by many **sprague dawley rat - taconic biosciences** - sprague dawley ® rat sprague dawley ® rat model taconic biosciences. the sprague dawley ® model is used across a span of biomedical disciplines including reproductive toxicology, embryonic development, nutritional studies, and many others. the excellent reproductive performance of the sprague dawley ® model makes it a preferred choice for ... **rat terrier - united kennel club** - the rat terrier is an energetic, alert dog whose curiosity and intelligence make him easy to train. the rat terrier has sometimes been described as having a dual personality. he is a fearless, tenacious hunter with seemingly unlimited energy. when he is not hunting, however, the rat terrier is an exceptionally friendly **general appearance: size, proportion, substance** - general appearance: the rat terrier was originally bred for ratting and farm work. a multipurpose companion dog that is capable of hunting rodents and vermin above and below ground, and to course small game. he is a sturdy, compact, small-to-medium sized parti-colored **va sop for mouse and rat husbandry** - va sop for mouse and rat husbandry routine mouse husbandry procedures 1. general animal room procedures: see "cage exchange" sop. 2. temperature: room temperature must be maintained at 68-79 degrees f (20-26 degrees c). ideally, temperatures should be 72 degrees, plus or minus 2 degrees. **integrated pest management in the home and landscape** - and cabinets. the roof rat has a more limited geographical range (fig. 3) than the norway rat, preferring ocean-influenced, warmer climates. in areas where the roof rat occurs, the norway rat may also be present. if you are un-sure of the species, look for rats at night with a strong flashlight or trap a few. figure 4 illustrates some of the **rat dissection guide - philipdarrenjones** - nares - the nares (plural) or naris (singular) are the external openings into the nasal cavity. female urogenital structures urethral orifice - is the opening into the urethra (part of the urinary system). vaginal orifice - is the opening into the vagina (part of the reproductive system). male urogenital structures penis - is hidden on the male rat beneath a fold of skin (the foreskin or prepuce). **rat dissection - msu** - pulled free from the body wall and removed entirely. save the skin to wrap around your rat if you need to stop and begin again at another time. now you're ready to find particular muscles. use the diagram to find the muscles described. place your rat, ventral side down, on the dissecting tray. the external oblique is a thin sheet of **rat housing guidelines - uc berkeley animal care and use ...** - of floor space for housing a female rat and her litter. given rat social dynamics and a lack of any observed adverse effects in the current standard caging, uc berkeley allows one male, one female, and their unweaned litter in breeding cages (except in lab products single "one cage"). 4. **is a giant inflatable rat an unlawful secondary picket ...** - is a giant inflatable rat an unlawful secondary picket under section 8(b)(4)(ii)(b) of the national labor relations act? tzvi mackson-landsberg* introduction in january of 2003, several members of the sheet metal workers' international association, a labor union, stood in front of brandon **the rat terrier breed - imageevent** - earth dogs, the rat terrier will follow most quarry to ground but are more suited to trailing, flushing, treeing game and hunting rabbits and vermin. *one rat terrier is reported to have killed over 2,500 rats in a span of only seven hours in a rat infested barn. the rat terrier is a hard-working farm **routine dosing in rodents - usf** - rat restrainers (cont'd) stopper is at half-way point of restrainer, preventing rat from moving forward. rat is positioned "head in." can be used with the "stopper" positioned

midway for hindquarter bleeds or injections. the animals head is placed within the device to prevent biting, while leaving access to the hindquarters. **rat and mouse control - maine** - rat and mouse control 2 reach sexual maturity in 3-5 months. they have 8-12 young per litter and up to 7 litters per year. roof rats thrive in attics, roof spaces, palm trees, **rat immunology - from genes to proteins to cells** - oratory rat was developed from the brown rat, *rattus norvegicus*, at the beginning of the twentieth century, and most laboratory rat strains originate from animals held at the wistar institute of anatomy and biology in philadelphia, usa. a large number of genetically well-defined inbred laboratory rat strains are now available for experimental ... **volume 2 joint travel regulations change 438** - renewal agreement travel (rat). the ftr (41 c.f.r. §301-1.13(b)(3)) allows an alternative destination for rat. since the ftr specifically authorizes an alternate location, that location should be considered an official travel location and the contract city pair fare should be available/used. c2204. **background rat care - aspca** - • a bored rat is an unhappy rat! provide pvc tubes for your pets to run through, and ladders and tree branches for climbing. parrot toys, including swings and ropes, are great for rats. • some rats love exercise wheels. get one with a solid surface without wire rungs, so your pets' tails cannot get caught while running. **rat eradication declaration for demolition projects** - the rat eradication program for the site as approved by a licensed pest eradication company is attached. this program complies with any guidelines and recommendations adopted by the seattle king county public health department for rat abatement and use of pesticides. **to rodent control - department of public health** - the norway rat, roof rat, and house mouse often live in close association with humans and can be serious pests under certain conditions. they can carry and transmit organisms that can cause disease, damage or destroy buildings and electronic equipment by their gnawing behavior, and contaminate surfaces with their waste products. **honors biology unit 6 - monona grove** - the rat that you will be dissecting is (what is referred to as) a common 'lab rat'. these white (albino) rats are the result of interbreeding of two wild rat species: brown and black rats. this type of breeding has produced a rat that is much smaller and far less aggressive than its ancestors, so they can easily used by humans in a lab setting. **methods of sewer rat control - lincoln research** - methods of sewer rat control joe e. brooks bureau of vector control, california department of public health, berkeley the control of rats in the urban environment involves more than merely dealing with the above-ground populations. the average urban sewage system provides a vast labyrinth of passages and nesting places for the norway rat, **the norway rat in downtown los angeles** - rat damage. they have tight fitting lids which can be locked to prevent pilferage. the norway rat in downtown los angeles testing of norway rats in downtown los angeles continues to provide evidence of viral and bacterial agents, enforcing the need for strict management practices. **basic rat handling and technique workshop unc-iacuc "first ...** - place the rat into a restrainer and dilate the blood vessels by warming them if needed. warm water, a heat lamp, or hand warmers may be used for this purpose. locate the dorsal vein. when the rat is in an upright position it will be near the 12' o clock position. mark the dorsal vein with a marker, and then locate the left and right **table of contents - ecoclear products** - ratx™ can also be placed directly into rat holes, nesting or feeding areas. wrap 40-60 grams or 1 1/2 to 2 ounces of ratx™ per rat and 10-15 grams or 1/3 or 1/2 ounce per mouse in clinging food packaging ~lm and push down the burrow. rats carry disease so never use unprotected hands. push product into burrows with a long stick or similar. **how much animal data are required to move into clinical ...** - • you spend \$500k to perform your glp rat and dog studies - the dog tolerates doses up to 1000 mg/kg • see liver effects at highest dose - rat does not tolerate drug • noel is 1 mg/kg - you will need a 10x safety factor **rat root river walleye sampling - minnesota department of ...** - rat root river walleye sampling . by: ben vondra, mndnr . the minnesota department of natural resources (dnr) has been conducting periodic monitoring of the walleye spawning run in the rat root river near ericsburg since the early **the updated rat manual - charles sevilla** - 1 attorney at law, law offices of charles sevilla, san diego, ca lifornia. formerly chief deputy state public defender 1979-1983. 2 attorney at law in private practice in los angeles, formerly san diego deputy federal defender (1985-1989) and deputy state public defender (1989-1992). the updated rat manual: **welcome long-distance moving customers - 1-800-pack-rat** - welcome long-distance . moving . customers. thank you for choosing 1-800-pack-rat for your long-distance move. our long distance move coordination team is here to help you every step of the way. please take a moment to review the following information and compile any questions you may have. a move coordinator will be in touch with you soon ... **effect of early and later colony housing on oral ingestion ...** - when a rat entered the tunnel, a photoelectrically activated video camera recorded the dye mark on its back and the number of drops released by the previous rat as displayed on the digital counters. any overflow from a well was drawn off by a vacuum pump into separate containers for each fluid. **control of roof rats in fruit trees - university of florida** - control of roof rats in fruit trees 3 reproduction roof rats reach sexual maturity at 3 to 4 months of age. in florida, they breed year-round, with peak breeding activity in spring and fall. the litter of 5 to 8 pups are born after a gestation period of 21 to 23 days. a female roof rat can have 4 or 5 litters per year. control **rat pth (irma) kit - quidel corporation** - active rat intact pth with this kit can provide a precise and sensitive assessment of changes in bone and mineral metabolism. test principle the rat intact pth elisa kit is a two-site enzyme-linked immunosorbent assay (elisa) for the measurement of pth in rat serum, plasma or cell culture media. **rats!!! - second chance wildlife center** - rats!!! rats!!! the most common rat in our area,

and what you might see in your backyard, is the norway rat. they most likely have built an elaborate home under your back deck or patio. this article is intended to educate the homeowner about the norway rat and to make suggestions as to how to control the rat population. do rats spread the ... **cardiac puncture blood collection (terminal procedure) sop ...** - cardiac puncture blood collection (terminal procedure) sop #pro-002 equipment required: • mouse: 23-25 gauge needle and 1-3 ml syringe • rat: 20-25 gauge needle and 10-20 ml syringe • anesthesia technique: 1. anesthetize animal. (surgical plane of anesthesia is required!) 2. test for reaction by corneal reflex and toe pinch. 3. **rat: analgesia and anesthesia formulary not - unc research** - rat: analgesia and anesthesia formulary the appropriate use of pain medications (analgesics) and anesthetics is a critical aspect of the proper care and use of animals in research. not only are they required by both the ethical conduct of research and regulatory agencies when an **key to rodent skulls - uf erc** - key to rodent skulls cotton rat (*sigmodon hispidus*) 1. all teeth large compared to other rodents of similar size. 2. tooth bed is oval shaped, not teardrop shaped. 3. front molars emerge straight from tooth bed, not at an angle. 4. molar groove shaped like: Σ 5. upper rim of eye socket is rounded, does not have a pointed edge. 6. **ntp technical report on the toxicology and carcinogenesis ...** - toxicology studies were conducted in rat peripheral blood erythrocytes and leukocytes, brain cells, and liver cells. study design 28-day studies beginning on gestation day (gd) 6, groups of 20 time-mated f 0 female rats were housed in specially-designed . t. of . **ratformulary\$ - indiana university bloomington** - sodium\$ pentobarbital\$ (nembutal)\$ 30-\$50mg/kg\$ip\$ lightanesthesia lasting\$15[60\$minutes.\$ recommended\$for\$ terminal/acute\$ procedures\$only,\$with\$ **where do rats live outside? - little ferry** - where do rats live outside? under wood piles or lumber that is not being used often under bushes, vines and in tall grasses that are not trimmed or cut back high grass or weeds sometimes provides a cozy and more private environment for rats to burrow. maintain lawns at no more than 4 to 6 inches in height. under rocks in the garden ...

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