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Information Resources on Bats

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INTRODUCTION

While although some bats may cause damage to plants, animals or humans (fruit bats or vampire bats), many of them are beneficial to humans (insect eating bats) and a number of bats are being used in various areas of research, especially in auditory research, and exhibits. While there is a great deal of information on bats published in the literature, it is too voluminous to be presented here. This publication, therefore, contains references selected from a search of multiple scientific databases in a variety of areas focusing on the housing, behavior, physiology, and veterinary care of bats. It should be useful to those exhibiting bats in zoos or other captive wildlife centers or using bats in research, as well as those interested in learning more about these flying mammals. An additional section on selected web sites concerning bats is also included.

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GENERAL

Stokes Beginner's Guide to Bats. Williams, Kim; Stokes, Donald; Stokes, Lillian., New York: Little, Brown and Company, 2001. 144 p. ill. ISBN: 0316816582.
Descriptors: guide, bats.

The Families and Genera of Bats. Miller, Gerrit S., Caldwell: The Blackburn Press, 2000. 282 p. ill. ISBN: 1930665024.
Descriptors: bats, families, genera.

Zoonoses and bats: A look from human health viewpoint. Ghatak, S.; Banerjee, R.; Agarwal, R.K.; Kapoor, K.N., *Journal of Communicable Diseases*, Mar. 2000, v. 32 (1), p. 40-48. ISSN: 0019-5138.
NAL call no: RA643.7.I6
Descriptors: diseases, viral, bacterial, fungal, parasitic, transmission.

Bibliography on bats: 1989-1999. Anon. *Plecotus et al 2, 1989-1999*. p. 135-157.
Language: Russian.
Descriptors: Chiroptera, bibliographies, nearctic regions, palaeartic regions.

Bats (Chiroptera) - 1998. Pope, Colin R. *Proceedings of the Isle of Wight Natural History and Archaeological Society* 15, 1999, p. 67-68. ill. ISSN: 0140-3729.
Descriptors: Chiroptera, roost counts, annual report.

Bats of the United States. Harvey, Michael J.; Altenbach, J. Scott; Best, Troy L. Bat Conservation International, P.O. Box 162603, Austin, TX 78716-2603. Tel: 800-538-BATS.
NAL call no: QL737 C5 H37 1999
Descriptors: bats, biology, feeding behavior, reproduction, hibernation.

Australian bats. Churchill, Sue, Reed. New Holland, Sydney, Auckland, etc. 1998, i-x, p. 1-230. ISBN: 187633407X.
NAL call no: QL737.C5C59 1998
Descriptors: field guide, identification guide, netting, acoustic signals.

Bats (Chiroptera) - 1997. Pope, Colin R. *Proceedings of the Isle of Wight Natural History and Archaeological Society* 14, 1998, p. 77-79. ISSN: 0140-3729.

Descriptors: Chiroptera, annual report, distribution records.

Bat biology and conservation. Kunz, Thomas H.; Racey, Paul A. (Eds.), Smithsonian Institution Press, Washington, DC, 1998, i-xvi, p.1-365. ill. ISBN: 1560988258.

NAL call no: QL737.C5B367 1998

Descriptors: Chiroptera, bat research, symposia papers.

Mammals - bats. Childs, Joan; Aldhous, Tony. *Bedfordshire Naturalist*, 1997 (1998), v. 52 (1), p. 29-35. ill. ISSN: 0951-8959.

Descriptors: Chiroptera, atlases, roosting records, distribution maps.

Public veterinary medicine: Public health: Zoonoses and potential zoonoses transmitted by bats. Hoar, Bruce R.; Chomel, Bruno B.; Argaez, Rodriguez, Filipe De J.; Colley, Patricia A., *Journal of the American Veterinary Medical Association*, Jun. 1, 1998, v. 212 (11), p. 1714-1720. ISSN: 0003-1488.

NAL call no: 41.8 Am3

Descriptors: diseases, transmission, infection, virus, bacteria.

Zoonoses and potential zoonoses transmitted by bats. Hoar, B.R.; Chomel, B.B.; Argaez-Rodriguez, F. de J.; Colley, P.A. *Journal of the American Veterinary Medical Association*, Jun. 1, 1998, v. 212 (11), p. 1714-1720. ISSN: 0003-1488.

NAL call no: 41.8 Am3

Descriptors: zoonoses, Chiroptera, disease transmission, disease prevention.

Science an the conservation of bats. Brock, Fenton M. *Journal of Mammalogy*, Feb. 1997, v. 78 (1), p. 1-14. ill. ISSN: 0022-2372.

NAL call no: 410 J823

Descriptors: Chiroptera, diet, foraging, echolocation, habitat, research advances.

Walker's Bats of the World. Nowak, Ronald, M.; Kunz, Thomas H.; Pierson, Elizabeth D., Baltimore: Johns Hopkins University Press, Jan. 1995. 287 p. ill. ISBN: 0801849861.

NAL call no: QL737.C5N69 1994

Descriptors: science, zoology, bats.

Bats. Henderson, F.R.; Lee, C., Cooperative Extension Service, Kansas State University. no. 855. In subseries: *Urban Wildlife Damage Control*. Oct. 1992, 4 p.

NAL call no: 275.29 K13Le

Descriptors: housing, management, mycoses, control, histoplasmosis.

The complete bat. Robertson, J., 1990, i-x, p. 1-165. ill. Chatto & Windus, London.

NAL call no: QL737 C5R55 1990

Descriptors: Chiroptera, conservation, biology, mythology, care in captivity.

Carnivorous and insectivorous bats. Hopkins, C.S., *Care and Handling of Australian Native Animals. Emergency Care and Captive Management*. Hand, S.J. ed. Surrey, Beatty and Sons Pty Ltd. in association with Royal Zoological Society of New south Wales, Chipping Norton, 1990, i-x, p. 1-210. Chapter pagination: 171-184. ill.

NAL call no: SF996.4 C3

Descriptors: Microchiroptera, care in captivity, general and emergency care, injuries.

Age determination in bats. Anthony, E.L.P. *Ecological and Behavioral Methods for the Study of Bats*. Kunz, T.H. ed. 1988, p. 47-58. ISBN: 0874745969.

NAL call no: QL737.C5E3

Descriptors: aging methods, reviews, skeletal characteristics, Chiroptera.

Health precautions for bat researchers. Constantine, D.G., Kunz, T.H. ed. *Ecological and Behavioral Methods for the Study of Bats*. Smithsonian Institution Press, Washington, D.C., 1988, i-xxii, p. 1-533. Chapter pagination: 491-528.

NAL call no: QL737.C5E3

Descriptors: Chiroptera, health precautions for researchers, animals in medicine.

Natural history of vampire bats. Greenhall, A.M.(ed.); Schmidt, U. (ed.). 1988, p.p. 246. ref. CRC Press, Inc., Boca Raton, FL. American Museum of Natural History.

NAL call no: QL737 C52N38 1988

Descriptors: vertebrates, Chordata, animals.

Bats. 1987: 240-255. illustr. Racey, P.A. in Poole, T.B. (ed.) *The UFAW Handbook on the Care and Management of Laboratory Animals*, Longman Scientific & Technical, London. 6th Ed. 1987: I-X, 1-933.

NAL call no: QL55.U5 1987

Descriptors: techniques, care in captivity, breeding techniques, marking techniques.

Keeping, Handling and Releasing: 36-41, Illustr. Racey, P.A. In Mitchell-Jones, A.J. (ed.) *The Bat Worker's Manual*. Nature Conservancy Council, 1987, p. 1-108.

NAL call no: QL737.C5B36

Descriptors: techniques, care in captivity, diet, handling.

American Leaf-Nosed bats: 638-644, Illustr. Rasweiler, J.J. IV. In Fowler, M.E., *Zoo and Wildlife Medicine*.

W.B.Saunders, Co. 2nd Revised Ed. 1986: IXXIV, p. 1-1127.

Descriptors: techniques, care in captivity, breeding techniques.

Bats (Chiroptera). Introduction: 631-633, Illustr. Constantine, D.G. in Fowler, M.E. (ed.) *Zoo and Wild Animal Medicine*, W.B. Saunders, Co. Philadelphia. 2nd Revised ed. 1986: IXXIV, 1-1127.

NAL call no: SF996 Z66

Descriptors: care in captivity, biological notes, health precautions.

Insectivorous bats.. Constantine, D.G. pp. 650-655 in *Zoo and Wild Animal Medicine*, M.E. Fowler, ed. Philadelphia, W.B. Saunders, 1986. Illustr.

NAL call no: SF996 Z66

Descriptors: medicine, care, insectivorous bats.

The lesser long-eared bat. Parnaby, Harry. *Australian Natural History*, 1986-7, v. 22 (3), p. 123.

NAL call no: Q1 A3A53

Descriptors: history, care, lesser long-eared bat.

Old world fruit bats: 634-637, Illustr. Carpenter, R.E. in Fowler, M.E. *Zoo and Wild Animal Medicine*, W.B. Saunders, Co. Philadelphia. 2nd Revised ed. 1986: I-IXXIV, 1-1127.

NAL call no: SF996 Z66

Descriptors: techniques, care in captivity, parasites, diseases, disorders.

The secret world of bats. Hines, J.; Hines, M., *Methun*, London. 1986, p. 1-64, ill.

Descriptors: Chiroptera, roost box construction, care in captivity, general anatomy.

Vampire bats: 644-649, Illustr. Wimsatt, W.A. In fowler, M.E. (ed.) *Zoo and Wild Animal Medicine*, W.B. Saunders,

Co. 2nd Revised Ed. 1986, i-xxiv. p. 1-1127.

NAL call no: SF996 Z66

Descriptors: techniques, care in captivity, parasites, diseases, disorders.

Disease exchange between bats and researchers: Problems and precautions. Constantine, D.G., *Australian Mammalogy*, 1985, v. 8 (3-4), p. 325-329. ISSN: 0310-0049.

Descriptors: Chiroptera, disease, transmission, techniques, animals in medicine.

Terms commonly used and misused in the literature pertaining to bats. Kunz, T.H.; Gustafson, A.W. *Bat Research News*, 1983, v. 24 (2-3), p. 19-22. ISSN: 0005-6227.

NAL call no: QL737.C5 B328

Descriptors: Chiroptera, common terms, glossaries.

Ecology of bats. Fenton, M.B.; Marshall, A.G.; Kunz, T.H. (ed.). 1982, xviii, 425 pp. many fig., 230 X160 mm. many ref. Plenum Press, N.Y. ISBN: 030640950X.

Descriptors: feeding behavior, predators, hosts.

A synopsis of the families of bats - Part 1. Koopman, K.F. *Bat Research News*, 1982, v. 23 (2), p. 15-16. ISSN: 0005-6227.

NAL call no: QL737.C5 B328

Descriptors: Chiroptera, diagnosis, primitive characters.

A synopsis of the families of bats - Part 2. Koopman, K.F. *Bat Research News*, 1982, v. 23 (3), p. 26-27. ISSN: 0005-6227.

NAL call no: QL737.C5 B328

Descriptors: Chiroptera, diagnosis.

Bats. Fenton, Brock. *Nature Canada*, Jul.-Sept. 1978, v. 7 (3), p. 32.

Descriptors: bats, care, habitat.

Bats (Chiroptera). American leaf nosed bats. 500-507, Illustr. Rasweiler, J.J.IV. In Fowler, M.E. (ed.) *Zoo and Wild Animal Medicine*, W.B. Saunders, Co. Philadelphia, 1978: I-XVI, 1-951.

NAL call no: SF996 Z66

Descriptors: techniques, care in captivity, breeding techniques.

Bats (Chiroptera). Insectivorous bats. 513-521. Illustr. Constantine, D.G. in Fowler, M.E. (ed.) *Zoo and Wild Animal Medicine*, W.B. Saunders, Co. 1978: I-XVI. 1-951.

NAL call no: SF996 Z66

Descriptors: techniques, diseases, disorders, pathology, care in captivity.

Bats (Chiroptera). Old world fruit bat. 495-500, Illustr. Carpenter, R.E. in Fowler, M.E. (ed.) *Zoo and Wild Animal Medicine*, W.B. Saunders, Co. 1978, I-XVI. 10-951.

NAL call no: SF996 Z66

Descriptors: techniques, care in captivity, reproduction.

Old World fruit bats. Carpenter, R.E. pp. 495-500 in *Zoo and Wild Animal Medicine*, M.E. Fowler, (ed). Philadelphia, W.B. Saunders, 1978.

NAL call no: SF996 Z66

Descriptors: medicine, care, old world fruit bats.

Vampire bats. Wimsatt, W.A. Pp. 507-513 in *Zoo and Wild Animal Medicine*, M.E. Fowler, (ed.) Philadelphia, W.B.

Saunders, 1978.

NAL call no: SF996 Z66

Descriptors: medicine, care, vampire bats.

Bats. Racey, P.A. *The UFAW Handbook on the Care and Management of Laboratory Animals*, 1972, p. 296-308.

NAL call no: QL55 U5 1972

Descriptors: mammals, animals, vertebrates, Chordata.

A partial bibliography of the vampire bat (*Desmodus, Diphylla, Diaemus*). Linhart, Samuel B. Denver Wildlife

Research Center, Denver, CO. 1971, 53 p.

NAL call no: QL737.C5L5

Descriptors: Vampire bats, bibliography.

Management of Wild Mammals in Captivity. Crandall, L.S. 1964, Chicago, University of Chicago Press.

NAL call no: QL77.5 C7

Descriptors: management, captivity, wild animals.

Bats. Allen, G.M. Cambridge, Harvard University Press, 1962

Descriptors: bats, care, management.

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ANATOMY

Anatomical specific features of the oral cavity in the bat (*Nyctalus noctulus*). Papuc, I.; Miclaus, V.; Lisovschi, Chelesanu C.; Pasca, C.; Gudea, A.; Miresan, V. *Revista Romana de Medicina Veterinara*, 2000, v. 10 (2), p. 171-175. ref.

Language: Romanian.

NAL call no: SF604 R48

Descriptors: mouth, tongue, teeth, anatomy, palate.

Morphological study of the heart innervation of bats *Myotis daubentoni* and *Eptesicus serotinus* (*Microchiroptera: Vespertilionidae*) during hibernation. Pauziene, Neringa; Pauza, Dainius H.; Stropus, Rimvydas. *European Journal of Morphology*, Jul. 2000, v. 38 (3), p. 195-205. ill. ISSN: 0924-3860.

Descriptors: hibernation, nerves, heart, cardiac innervation.

Structure and function of the bat superior olivary complex. Grothe, B.; Park, T.J. *Microscopy Research and Technique*, Nov. 15, 2000, v. 51 (4), p. 382-402. ISSN: 1059-910X.

NAL call no: QH212 E4J69

Descriptors: superior olivary complex, function, structure.

Anatomical and functional imaging of the auditory cortex in awake mustached bats using magnetic resonance technology. Kamada, Kyousuke; Pekar, James J.; Kanwal, Jagmeet S. *Brain Research Protocols*, Dec. 1999, v. 4 (3), p. 351-359. ISSN: 1385-299X.

Descriptors: brain, auditory cortex, nervous system.

Ecomorphological implications of the microstructure on the tongue of the fawn roundleaf bat, *Hipposideros cervinus* (*Chiroptera: Hipposideridae*). Sharma, R.S.K.; Vidyadaran, M.K.; Zulkifli I.; Azlan, J. Mohd; Sumita, S.; Azilah, A.J.; Ho, O.K., *Australian Journal of Zoology*, 1999, v. 47 (4), p. 405-409. ISSN: 0004-

959X.

NAL call no: 410 Au73

Descriptors: tongue, microstructures, dental and oral system.

Shape differences in the cervical and upper thoracic vertebrae in rats (*Rattus norvegicus*) and bats (*Pteropus poiocephalus*): Can we see shape patterns derived from position in column and species membership?

Johnson, D.R.; McAndrew, T.J.; Oguz, Ozkan. *Journal of Anatomy*, Feb. 1999, v. 194 (2), p. 249-253. ill. ISSN: 0021-8782.

NAL call no: 447.8 J826

Descriptors: vertebral column, cervical and upper thoracic vertebrae.

Ultrastructure of the parotid gland in two species of naked-backed bats. Tandler, Bernard; Nagato, Toshikazu; Phillips, Carleton J. *Anatomical Record*, Jun. 1, 1999, v. 255 (2), p. 105-115. ill. ISSN: 0003-276X.

NAL call no: 447.8 AN1

Descriptors: salivary glands, parotid gland ultrastructure, evolutionary adaptation.

Form, function and evolution in skulls and teeth of bats. Freeman, Patricia W. Kunz, Thomas H. & Racey, Paul A. (Eds). *Bat Biology and Conservation*, 1998, i-xvi, p. 1-365. Chapter pagination: 140-156. ill. ISBN: 15609-88258.

NAL call no: QL737 C5B367 1998

Descriptors: Chiroptera, teeth, skull, form, function, diet, evolution.

Studies on naso-laryngeal region in Schneider's leaf-nosed bat, *Hipposideros speoris* (Schneider, 1800). Part 1: Anatomy. Korad, V.S.; Joshi, P.V. *Journal of Animal Morphology and Physiology*, Jun.-Dec. 1998, v. 45 (1-2), p. 44-55. ill. ISSN: 0021-8804.

NAL call no: 444.8 J823

Descriptors: larynx, nasal passages, morphology, function.

Studies on naso-laryngeal region in Schneider's leaf-nosed bat, *Hipposideros speoris* (Schneider, 1800) in relation to sound production. Part 2.: Histology. Korad, V. S.; Joshi, P.V. *Journal of Animal Morphology and Physiology*, Jun.-Dec. 1998, v. 45 (1-2), p. 56-65. ill. ISSN: 0021-8804.

NAL call no: 444.8 J823

Descriptors: larynx, nasal passages, histology and function.

Vomer nasal organ in bats and primates: Extremes of structural variability and its phylogenetic implications.

Bhatnagar, K.P.; Meisami, E. *Microscopy Research and Techniques*, Dec. 15, 1998, v. 43 (6), p. 465-475. ISSN: 1059-910X.

NAL call no: QH212 E4J69

Descriptors: anatomy, histology, embryology, ultrastructure.

Allometric patterning in the limb skeleton of bats: Implications for the mechanics and energetics of powered flight. Swartz, Sharon M., *Journal of Morphology*, Dec. 1997, v. 234 (3), p. 277-294. ISSN: 0362-2525.

NAL call no: 444.8 J826

Descriptors: Chiroptera, limb bones, biomechanics, energetics, powered flight.

Crystalloids in the excretory ducts of the accessory submandibular gland of the long-winged bat, *Miniopterus magnator*. Tandler, B.; Nagato, T.; Phillips, C.J. *Microscopy Research and Techniques*, Jun. 1-15, 1997, v. 37 (5-6), p. 592-597. ISSN: 1059-910X.

NAL call no: QH212 E4J69

Descriptors: anatomy, histology, ultrastructures.

Scanning electron microscopic observations on the dorsal lingual surface of the lesser dog-faced fruit bat,

Cynopterus brachyotis (Megachiroptera, Pteropodidae): Adaptations to frugivory. Sharma, R.S.K.; Vidyadaran, M.K.; Azlan, J.M.; Sumita, S.; Shanti, G.; Azilah, A.J.; Ho, O.K. *Jurnal Veterinar Malaysia*, 1997, v. 9 (2), p.67-77. ref. ISSN: 9128-2506.

Descriptors: scanning electron microscopy, morphology, tongue, anatomy.

Anatomical basis for audio-vocal integration in echolocating horseshoe bats. Metzner, W. *Journal of Comparative Neurology*, 1996, v. 368 (2), p. 252-269. ISSN: 0021-9967.

NAL call no: QP351.J68

Descriptors: midbrain, paralemniscal-tegmentum, echolocation.

Anatomical and physiological investigation of auditory input to the superior colliculus of the echolocating megachiropteran bat *Rousettus aegyptiacus*. Thiele, A.; Reubsamen, R.; Hoffmann, K.P. *Experimental Brain Research*, 1996, v. 112 (2), p. 223-236. ISSN: 0014-4819.

Descriptors: acoustic stimulation, peroxidase, nervous system.

Morphology and function of the shoulder joint of bats: Chiroptera. Schlosser, Strum E.; Schliemann, H. *Journal of Zoological Systematics and Evolutionary Research*, Jun. 1995, v. 33 (2), p. 88-98. ill.

NAL call no: QL351 Z4

Descriptors: Chiroptera, articulation, pectoral girdle, shoulder joint morphology, function and evolution, phylogeny, flight.

Patella of selected bats: Patterns of occurrence or absence and associated modification of the quadriceps femoris tendon. Smith, Bonnie J.; Holladay, Steven D.; Smith, Stephen A., *Anatomical Record*, 1995, v. 242 (4), p. 575-580. ISSN: 0003-276X.

NAL call no: 447.8 AN1

Descriptors: morphology, skeletal system, muscular system, histology.

Imaging the cochlea by magnetic resonance microscopy. Henson, M.M.; Henson, O.W.; Gewalt, S.L.; Wilson, J.L.; Johnson, G.A. *Hearing Research*, May 1994, v. 75 (1-2), p. 75-80. ISSN: 0378-5955.

Descriptors: cochlea anatomy, histology, magnetic resonance imaging.

Anatomical study of the nasal cavity of the bats (*Rhinolophus ferrumequinum micadoi*). Maeada, H.; Kimura, J.; Tsukise, A.; Okano, M., *Bulletin of the College of Agriculture and Veterinary Medicine*, Nihon University, No. 49, 1992, p. 73-81. ill. ISSN: 0078-0839.

Language: Japanese.

NAL call no: 41.9 T5762

Descriptors: chemoreception, nasal cavity anatomy, nasal passages, significance in chemoreception.

Anatomical study of the vomeronasal organ of bats (*Miniopterus schreibersi fuliginosus*). Arai, H.; Kimura, J.; Tsukise, A.; Okano, M., *Bulletin of the College of Agriculture and Veterinary Medicine*, Nihon University, No. 49, 1992, p. 42-52. ill. ISSN: 0078-0839.

Language: Japanese.

NAL call no: 41.9 T5762

Descriptors: chemoreception, vomeronasal organ anatomy.

Anatomy of the nose of the oriental frosted bat (*Vespertilio orientalis*). Shiota, M.; Mukohyama, M.; Kogure, N.; Mizoguchi, S.; Kimura, J.; Tsukise, A.; Okano, M., *Bulletin of the College of Agriculture and Veterinary Medicine*, Nihon University No. 47, 1990, p. 97-106. ill. ISSN: 0078-0839.

NAL call no: 41.9 T5762

Language: Japanese.

Descriptors: snout, nasal passages, anatomy.

Developmental aspects of the neocortex of the bat. Ferrer, I. *Neuroscience Research*, Aug. 1989, v. 6 (6), p. 573-580. ISSN: 0168-0102.

Descriptors: anatomy, histology, growth, development.

Tension fibroblasts and the connective tissue matrix of the spiral ligament. Henson, M.M.; Henson, O.W. *Hearing Research*, Sep. 15, 1988, v. 35 (2-3), p. 237-258. ISSN: 0378-5955.

Descriptors: cochlea ultrastructure, fibroblasts, anatomy, histology.

Anatomical study of neural projections to the superior colliculus of the big brown bat, *Eptesicus fuscus*. Zhang, S.Q.; Sun, K.D.; Jen, P.H. *Brain Research*, Jul. 28, 1987, v. 416 (2), p. 375-380. ISSN: 0006-8993.

NAL call no: Film S-1779

Descriptors: acoustic stimulation, brain mapping, anatomy, histology.

A study of the spinal cord of fruit bat (*Macrochiroptera*). Gaber, M.A.; Mohamed, R.S., *Assiut Veterinary Medical Journal* 15, No. 29, 1985, p. 57-64. ISSN: 1012-5873.

NAL call no: SF604 A77

Descriptors: spinal cord, anatomy.

A suspected infrared-recipient nucleus in the brainstem of the vampire bat, *Desmodus rotundus*. Kishida, R.; Goris, R.C.; Terashima, S.; Dubbeldam, J.L. *Brain Research*, Nov. 26, 1984, v. 322 (2), p. 351-355. ISSN: 0006-8993.

NAL call no: Film S-1779

Descriptors: anatomy, histology, Chiroptera, infrared rays, sensation physiology.

The cervical vertebrae of some bats. Fenton, M.B.; Crear, L.M. *Bat Research News*, 1983, v. 24 (4), p. 52. ISSN: 0005-6227.

NAL call no: QL737.C5 B328

Descriptors: Chiroptera, biophysics, vertebral column, cervical vertebrae.

The cells of Boettcher in the bat, *Pteronotus p. parnellii*. Henson, M.M.; Jenkins, D.B.; Henson, O.W. *Hearing Research*, May, 1982, v. 7 (1), p. 91-103. ISSN: 0378-5955.

Descriptors: ultrastructure, anatomy, histology, cytology.

Bone cell changes in the bat, *Myotis lucifugus*, as a result of hibernation. Doty, S.B.; Nunez, E.A. *Bat Research News*, 1981, v. 22 (4), p. 37. ISSN: 0005-6227.

NAL call no: QL737.C5 B328

Descriptors: hibernation, mineral metabolism, bone cell changes, calcium metabolism.

Phylogenetic analysis of chiroptean dentition. Koopman, K.F.; MacIntyre, G.T. *Proceedings of the International Bat Research Conference 5*, 1980, p. 279-288. ill.

NAL call no: QL737 C5I55 1978

Descriptors: Chiroptera, dentition, phylogenetic use, phylogeny.

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Isoflurane anaesthesia in rabbits, rodents, bats and hedgehogs. Hochleithner, M.; Hochleithner, C.; Engel, K. *Kleintierpraxis*, 1996, v. 41 (3), p. 187-190. ref. ISSN: 0023-2076.
Language: German
NAL call no: 41.8 K67
Descriptors: anaesthesia, anaesthetics, recovery, inhaled anaesthetics.

Ketamine and ketamine: xylazine ED-50 for short-term immobilization of the island flying fox (*Pteropus hypomelanus*). Heard, Darryl J.; Beale, Chris; Owens, John. *Journal of Zoo and Wildlife Medicine*, 1996, v. 27 (1), p. 44-48. ISSN: 1042-7260.
NAL call no: SF601 J6
Descriptors: ketamine, heart rate, immobilization, ketamine/xylazine, respiration rate.

Bat anaesthesia. (Correspondence), Routh, A., *Veterinary Record*, UK, 1995, v. 137 (18), p. 472. ISSN: 0042-4900.
NAL call no: 41.8.V641
Descriptors: anaesthesia, inhaled anaesthetics, animal welfare.

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AUDITORY / HEARING

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NAL call no: QP351 N48

Descriptors: 2-deoxy-D-glucose, uptake, mapping, correlation, flight activity, brain.

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NAL call no: Film S-1779

Descriptors: brain, neurons, sound, sound reception, auditory neurons.

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NAL call no: QP351.J68

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NAL call no: Film S-1779

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NAL call no: QC221.A27

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Descriptors: auditory cortex, echolocation, acoustic stimulation, neurons.

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NAL call no: Film S-1779

Descriptors: auditory cortex, physiology, echolocation, neurons.

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NAL call no: 442.8 B77

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NAL call no: QP33 J68

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NAL call no: QC221.A27

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- Corticofugal influences on the responses of bat inferior collicular neurons to sound stimulation.** Sun, X.D.; Jen, P.H.; Sun, D.X.; Zhang, S.F. *Brain Research*, Aug. 21, 1989, v. 495 (1), p. 1-8. ISSN: 0006-8993.
NAL call no: Film S-1779
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- Electrical stimulation of bat superior colliculus influences responses of inferior collicular neurons to acoustic stimuli.** Sun, X.D.; Jen, P.H. *Brain Research*, Sep. 18, 1989, v. 497 (2), p. 214-222. ISSN: 0006-8993.
NAL call no: Film S-1779
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NAL call no: QC221.A27
Descriptors: echolocation, Chiroptera, cortex, mapping.
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NAL call no: 472 N21

Descriptors: Doppler shift, neuronal basis, echo location.

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NAL call no: QP33.J68

Descriptors: auditory perception, physiology, ear, hearing.

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NAL call no: Film S-1779

Descriptors: auditory pathways, echolocation, physiology, motion perception.

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Descriptors: pina, echolocating, pressure transformation.

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NAL call no: QP351.J68

Descriptors: cochlear nucleus, catecholamine fibers, bats.

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NAL call no: QP351 N3

Descriptors: auditory cortex, anatomy, histology, autoradiography.

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NAL call no: Film S-1779

Descriptors: auditory cortex physiology, audiometry, brain mapping.

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Descriptors: auditory pathways, anatomy, histology, cochlea.

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Descriptors: cochlea, anatomy, histology, innervation.

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Descriptors: auditory pathways, physiology, echolocation.

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NAL call no: Film S-1779

Descriptors: auditory pathways, physiology, orientation.

Auditory spatial response areas of single neurons and space representation in the cerebellum of echo locating bats. Sun, X.D.; Jen, P.H.; Zhang, W.P. *Brain Research*, Jun. 30, 1987, v. 414 (2), p. 314-322. ISSN: 0006-8993.

NAL call no: Film S-1779

Descriptors: acoustic stimulation, auditory threshold, brain mapping, neurons.

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NAL call no: QP33.J68

Descriptors: ontogeny, sounds, echolocating.

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NAL call no: QL750 B52

Descriptors: insect flight sounds, detection.

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Descriptors: echolocation, orientation, cues, movement, sound.

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NAL call no: QP33.J68

Descriptors: Doppler shift, frequency tracking, constant frequency.

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Descriptors: auditory threshold, brain mapping, sound localization.

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Descriptors: biomechanics, ligaments physiology, Chiroptera.

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NAL call no: Film S-1779

Descriptors: auditory perception, superior colliculus physiology.

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NAL call no: Film S-1779

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Descriptors: maintenance, breeding, captivity.

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Descriptors: Cryptosporidium, mammalian hosts, protozoan parasites, Chiroptera.

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Descriptors: immunochemistry, wounds, amyloidosis.

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NAL call no: QL737.C5 B328

Descriptors: helminths, Chordata, Mammalia, parsitology.

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Descriptors: hyperostosis, diagnosis, flurosis, bone diseases, nutritional disorders.

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Descriptors: neoplasms, case reports, histology, lymphoma, diagnosis.

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Descriptors: coccidiosis, kidneys, diagnosis, histopathology, parasites.

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NAL call no: 448.3 Ac85

Descriptors: biochemistry, ecology, molecular biophysics, genetics, microbiology.

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Descriptors: blood, new species, parasites helminths.

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Descriptors: blood, lymphatics, infection, digestive system, kidney, liver.

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NAL call no: 41.8 V641

Descriptors: bacterial diseases, microbial flora, Chiroptera.

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Descriptors: isoenzymes, chemotaxonomy, zymodemes, parasites, protozoa.

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Descriptors: nervous system diseases, etiology, vitamin B12 deficiency.

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Descriptors: hosts, ectoparasites, wild animals.

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NAL call no: 421.J828

Descriptors: macronyssidae, biometry, morphology, parasites, new genus.

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NAL call no: 436.8 W63

Descriptors: helminths, parasites.

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Descriptors: ecology, helminths, immunity, parasites, Chiroptera.

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NAL call no: 436.8 C33

Descriptors: ectoparasites, hosts, sampling, traps, CO₂, bait.

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NAL call no: SF601 V44

Descriptors: monoclonal antibodies, biotechnology, viral diseases, rabies virus.

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NAL call no: 475 SCI23

Descriptors: viral diseases, reservoir hosts, epidemiology, reviews.

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NAL call no: 448.9 IN74

Descriptors: biochemistry, membranes, polypeptides, chemotaxonomy.

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Descriptors: ectoparasites, hosts, taxonomy, new species.

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Descriptors: new species, Taxonomy, morphology, parasites.

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Descriptors: vectors, life history, intermediate hosts, transmission.

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Descriptors: diets, food organisms, seasonal variation.

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Descriptors: reproductive condition, foraging behavior, female, effect.

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Descriptors: diets, frugivores, food selection, analysis, nectarivores, Chiroptera.

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Descriptors: analysis, nectarivores, frugivores, nutrition, Chiroptera.

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Descriptors: feeding behavior, foraging, captive fruit bats.

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Descriptors: metabolism, disease models, nervous system.

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Descriptors: Pteropodidae, energetics, food intake, diets, fruits.

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Descriptors: echolocation, predatory behavior, feeding behavior, foraging.

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Descriptors: cobalamin analogs in plasma, nervous system, liver, gases, neurological changes, nitrous oxide.

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Descriptors: food location, analysis, behavior,

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Descriptors: young red bats, artificial diet.

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An immunohistochemical study of gut endocrine cells in piscivorous bat (Chiroptera: *Noctilio leporinus*). Komori, Manabu; Taddei, Valdir A.; Hondo, Eiichi, Kitamura, Nobuo, Pai, Vitalino D.; Choliq, Chairun N.; Yamada, Junzo. *Japanese Journal of Zoo and Wildlife Medicine*, Mar. 2000, v. 5 (1), p. 45-54. ill. ISSN: 1342-6133.
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Descriptors: housing techniques, diseases and disorders, pathologies, air exchange.

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Descriptors: anatomy, histology, metabolism, pituitary gland, hormones.

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Descriptors: Miniopterus, Murina, Vespertilio, blood vessels, cerebral, innervation.

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NAL call no: 448.8 In22

Descriptors: anatomy, histology, stomach, Chiroptera.

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Descriptors: digestive system, endocrine cells, endocrine system, types.

An immunohistochemical study of gut endocrine cells in nectarivorous and frugi-nectarivorous phyllostomid bats (*Chiroptera: Anoura caudifer* and *Carollia perspicillata*). Ashihara, Nagatoshi; Taddei, Valdir A.; Hondo, Eiichi; Kitamura, Nobuo; Pai, Vitalino D.; Campos, Valencio J.D.M.; Choliq, Chairun N.; Yamada, Junzo. *Japanese Journal of Zoo and Wildlife Medicine*, Sept. 1999, v. 4 (2), p. 125-133. ISSN: 1342-6133.

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Descriptors: microbial flora, intestines, microorganisms, bacterial diseases.

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Descriptors: stomach, fundic gland region, histology and histochemistry.

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NAL call no: 470 C16D

Descriptors: prey, nutrition, digestion, biology, Chiroptera.

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Descriptors: fungal parasite survival, survival in gastrointestinal tract, parasites.

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Descriptors: transit time, food, digestive tract.

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Descriptors: stomach anatomy and histology, Chiroptera.

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Descriptors: digestive tract, transit time.

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Chiropteran muscle biology: A perspective from molecules to function. Hermanson, John W., Kunz, Thomas H. & Racey, Paul A. (eds). *Bat Biology and Conservation*. Smithsonian Institution Press, Washington, D.C., 1998, i-xvi, 1-365. Chapter pagination: 127-139, ill. ISBN: 1560988258.

NAL call no: QL737 C5B367 1998

Descriptors: Chiroptera, wings, flight muscles, skeletal muscles, structure, function.

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Descriptors: muscle contraction, hibernation temperature.

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Descriptors: Chiroptera, skeletal musculature, ventral muscles, comparative morphology.

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NAL call no: QL737.C5 B328

Descriptors: cytoplasmic inclusions, lipid droplets, mitochondria, enzymes, ventricle.

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NAL call no: QL737.C5 B328

Descriptors: Chiroptera, muscle function, downstroke muscles, flight.

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***Rhinolophus rouxi*.** Schweizer, H.; Ruebsaman, R.; Ruehle, C. *Brain Research*, Dec. 28, 1981, v. 230 (1-2), p. 41-50. ISSN: 0006-8993.

NAL call no: Film S-1779

Descriptors: laryngeal muscles, innervation, motor neurons, anatomy.

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Descriptors: bats, energetics.

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Descriptors: Flying foxes, physiology.

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Descriptors: melatonin, influence, reproductive physiology.

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Descriptors: physiological, ecological, adaptation, insectivorous bats.

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Descriptors: embryo development, transport to uterus, implantation.

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Descriptors: behavior, development, postnatal growth, thermoregulation.

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NAL call no: 410 J825

Descriptors: weight, plasma, serum, hormones, testosterone, androstenedione.

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NAL call no: 410 J823

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Descriptors: lipids, sperm, fertilization, reproductive system, sperm storage.

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NAL call no: 410 J823

Descriptors: reproduction, copulation, birth, lactation.

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NAL call no: 442.8 J8222

Descriptors: hormones, ovary, delayed ovulation, Androstenedione production.

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NAL call no: 442.8 J8222

Descriptors: ovarian function, captive, black mastiff bat.

Seasonal changes in the ovary of the bat: 1. Late arousal from hibernation. Takeva, Z. *Dokladi Na B"lgarskata Akademiya Na Naukite*, 1998, v. 51 (5-6), p. 79-82. ill. ISSN: 0861-1459. Dept. of Anatomy & Histology, Medical University, Sofia, Bulgaria.

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Descriptors: melengesterol, contraceptives, bats.

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Descriptors: behavior, biophysics, endocrine system, reproductive system.

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Descriptors: genetics, Spermatocytes, X-Chromosome, Chiroptera.

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Descriptors: reproduction, reproductive biology, Chiroptera.

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Descriptors: care of young, carrying duration, infant size.

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NAL call no: 41.9 T5762
Descriptors: sperm storage in uterus, ovary, histology, hibernation, sperm.

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NAL call no: QL1.Z68

Descriptors: sperm storage, pregnancy, changes.

The male reproductive pattern and histology of the testes of the lesser yellow house bat, *Scotophilus borbonicus E. geoffroy 1803 Chiroptera Vespertilionidae*. van der Merwe, N.J.; Rautenbach, I.L. *Journal of the South African Veterinary Association*, v. 60 (2), p. 83-86. 1989. ISSN: 0037-9840.

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Descriptors: male reproductive pattern, histology, testes.

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NAL call no: QL1 J68

Descriptors: care of the young, suckling behavior.

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Descriptors: sperm, delayed capacitation, Japanese house bat.

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Descriptors: embryonic development, new pattern, lesser yellow house bat.

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NAL call no: 442.8 J8222

Descriptors: ovarian function, black mastiff bat.

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Descriptors: placenta and fetal membranes, lesser yellow house bat.

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Descriptors: reproductive status, sex determination, methodology, Chiroptera.

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Descriptors: spermatozoa, fate, genital tracts.

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NAL call no: QL1 J68

Descriptors: reproduction, behavior, breeding habits, shared nursing.

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Descriptors: sperm ducts, seminal vesicles histopathology.

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NAL call no: 442.8 J8222

Descriptors: testicular migration, spermatogenesis, temperature regulation.

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Descriptors: embryology, delayed development, influencing factors.

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NAL call no: QL1.Z68

Descriptors: morphology epithelial cells, sperm storage.

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Descriptors: reproductive behavior, care of young, maternal behavior, reproduction.

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NAL call no: 447.8 AM32

Descriptors: morphology, thyroid cells.

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Descriptors: biometrics, digestion, nutrition, energy requirements, growth rate.

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NAL call no: 442.8 J8222

Descriptors: receptivity, male, female, spermatozoa.

Rearing orphan *Pteropus* spp. (Chiroptera: Pteropidae) for release to the wild. Luckhoff, H. *Aust. Mammal*, 1987, v. 10 (2), p. 127-128.

Descriptors: care in captivity, hand rearing, techniques.

Seasonal changes in spermatogenesis (including germ cell degeneration) and plasma testosterone concentration in the grey-headed fruit bat, *Pteropus poliochphalus*. McGuckin, Michael A.; Blackshaw, Alan W.

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NAL call no: 442.8 AU72

Descriptors: seasonal changes, spermatogenesis, plasma testosterone.

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NAL call no: 447.8 AM32

Descriptors: ovulation, embryonic development, timing.

Control of sex steroid-binding protein in the male little brown bat, *Myotis lucifugus*, relationship of plasma thyroxine levels to the induction of plasma sex steroid-binding protein in immature males. Kwiecinski, G.G.; Damassa, D.A.; Gustafson, A.W. *Journal of Endocrinology*, 1986, v. 110 (2), p. 271-278.

NAL call no: 448.8 J8293

Descriptors: sex steroid-binding protein, thyroxine levels, plasma.

Implications of prolonged sperm storage from the viewpoint of capacitation in the Japanese house-dwelling bat, *Pipistrellus abramus*. Mori, T.; Son, S.W.; Uchida, T.A. Fifth International Symposium on Spermatology, Fujiyoshida, Japan. Aug. 25-29, 1986. *Dev Growth Differ*, v. 28 (suppl.), p.74.

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Descriptors: prolonged sperm storage, implications.

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Descriptors: maternal care, postnatal development, bats.

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NAL call no: QP1.P4

Descriptors: metabolic strategies, reproduction.

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NAL call no: QL1.Z68

Descriptors: morphology, fuzz filaments, spermatozoa.

The annual activity and breeding cycles of Gould's long eared bat, *Nyctophilus gouldi* (Microchiroptera: Vespertilionidae). Phillips, W.R.; Inwards, S.J., *Australian Journal of Zoology*, 1985, v. 33 (2), p. 111-126. ISSN: 0004-959X.

NAL call no: 410 Au73

Descriptors: reproduction, seasonal functions, breeding season, sexual maturation.

Annual variations in plasma sex steroid-binding protein and testosterone concentrations in the adult male little brown bat: Relation to the asynchronous recrudescence of the testis and accessory reproductive organs. Gustafson, A.W.; Damassa, D.A. *Biology of Reproduction*, Dec. 1985, v. 33 (5), p. 1126-1137. ISSN: 0006-3363.

NAL call no: QL876.B5

Descriptors: variations, sex-steroid binding protein, testosterone, bat.

Control of plasma sex steroid-binding protein (SBP) in the little brown bat. Effects of thyroidectomy and

treatment with L-and D-thyroxine on the induction of SBP in adult males. Damassa, D.A.; Gustafson, A.W.; Kwiecinski, G.G.; Pratt, R.D., *Biology of Reproduction*, 1985, v. 33 (5), p. 1113-1146. Ill. ISSN: 0006-3363.

NAL call no: QL876.B5

Descriptors: plasma, sex steroid binding protein, thyroxine, effect on plasma proteins.

Prolonged survival of the Graafian follicle and fertilization in the Japanese greater horseshoe bat, *Rhinolophus ferrumequinum nippon*. Oh, Y.K.; Mori, T.; Uchida, T.A. *Journal of Reproduction and Fertility*, Jan. 1985, v. 73 (1), p. 121-126. ISSN: 0022-4251.

NAL call no: 442.8 J8222

Descriptors: Graafian follicle, survival, fertilization.

Relationship of food intake to the induction of plasma sex steroid-binding protein and testicular activity in immature male little brown bats, *Myotis lucifugus lucifugus*. Damassa, D.A.; Gustafson, A.W. *Journal of Reproduction and Fertility*, Jul. 1985, v. 74 (2), p. 701-798. ISSN: 0022-4251.

NAL call no: 442.8 J8222

Descriptors: food intake, sex-steroid binding protein, testicular activity.

The Tasmanian Pipistrelle: *Pipistrellus Tasmaniensis gould* 1858: Annual activity and breeding cycles. Phillips, W.R.; Tidemann, C.R.; Inwards, S.J.; Winderlich, S. *Mancroderma*, 1985, v. 1 (1), p. 2-11. ill.

Descriptors: cyclic functions, seasonal functions, whole animal physiology.

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NAL call no: 470 Sci2

Descriptors: reproduction, care of young, communal nursing, group behavior.

Composition of mammary secretion from the epauletted fruit bat, *Epomophorus wahlbergi*. Quicke, G.V.; Sowler, S.; Berry, R.K.; Geddes, A.M. *South African Journal of Science*, 1984, v. 80 (10), p. 481-482. ref.

NAL call no: 515 SO84

Descriptors: mammary secretion, composition, fruit bat.

Control of plasma sex steroid-binding protein in the little brown bat, *Myotis lucifugus*, effects of photoperiod and orchietomy on the induction of steroid-binding protein in immature males. Damassa, D.A.; Gustafson, A.W. *Endocrinology*, 1984, v. 115 (6), p. 2355-2361.

NAL call no: 448.8 EN2

Descriptors: plasma, sex steroid-binding protein, photoperiod, orchietomy.

Luteinizing hormone-releasing hormone (LH-RH) cells and their projections in the forebrain of the bat *Myotis lucifugus lucifugus*. King, J.C.; Anthony, E.L.; Gustafson, A.W.; Damassa, D.A. *Brain Research*, Apr. 30, 1984, v. 298 (2), p. 289-301. ISSN: 0006-8993.

NAL call no: Film S-1779

Descriptors: brain metabolism, sex behavior, estrus, hibernation.

Melatonin influences the reproductive physiology of male pallid bats. Beasley, L.J.; Smale, L.; Smith, E.R. *Biol Reprod*, Mar. 1984, v. 30 (2), p. 300-305. ISSN: 0006-3363.

NAL call no: QL876.B5

Descriptors: melatonin, reproductive physiology, male bats.

Myometrial ultrastructure and innervation in *Myotis lucifugus*, the little brown bat. Buchanan, G.D.; Garfield, R.E. *Anatomical Record*, Nov. 1984, v. 210 (3), p. 463-475. ISSN: 0003-276X.

NAL call no: 447.8 AN1

Descriptors: Chiroptera, anatomy, histology, myometrium ultrastructure.

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NAL call no: 448.8 EN2

Descriptors: plasma sex steroid-binding protein, testosterone, puberty.

Photoperiod influences the annual reproductive cycle of the male pallid bat, *Antrozous pallidus*. Beasley, L.J.; Zucker, I. *Journal of Reproduction and Fertility*, Mar. 1984, v. 70 (2), p. 567-573. ISSN: 0022-4251.

NAL call no: 442.8 J8222

Descriptors: photoperiod, reproductive cycle, male bat.

Sperm invasion of the oviducal mucosa, fibrinoplastic phagocytosis and endometrial sloughing in the Japanese greater horseshoe bat, *Rhinolophus ferrumequinum*. Uchida, T.A.; Mori, T.; Oh, Y.M. *Cell and Tissue Research*, 1984, v. 236 (2), p. 327-331. ISSN: 0302-766X.

NAL call no: QH581.A1Z4

Descriptors: sperm transport, endometrium ultrastructure, oviducts ultrastructure.

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Descriptors: basilar membrane physiology, cochlea physiology, vibration.

Birth of triplets in the Pallid bat, *Antrozous pallidus*. Bassett, J.; Schultz, M.; Stamps, L.; Heald, R.; Wiederhielm, C. *Bat Research News*, 1983, v. 24 (1), p. 2-4.

NAL call no: QL737.C5 B328

Descriptors: reproduction, behavior at birth, care of young.

Breeding and feeding habits of some Indian microchiroptera. Khajuria, H. *Saugetierkundliche Mitt*, 1983 (1984) v. 31 (2-3), p. 127-134. ill.

Descriptors: feeding, feeding behavior, reproductive behavior, birth.

Reproduction in the female short nosed fruit bat, *Cynopterus sphinx* Vahl. Krishna, A.; Dominic, C.J., *Periodicum Biologorum*, 1983, v. 85 (1), p. 23-30. ill. ISSN: 0031-5362.

NAL call no: QH301.P43

Descriptors: weight, reproduction, gestation period, care of young, sexual maturation.

Female reproductive cycle in the mouse-tailed bat, *Rhinopoma hardwickei hardwickei*. Banerjee, S.; Karim, K.B., *Bat Research News*, 1982, v. 23 (4), p. 58. ISSN: 0005-6227.

NAL call no: QL737.C5 B328

Descriptors: reproduction, gestation period, care of young, sexual maturation, age.

Luteinizing hormone releasing hormone immunoreactive cells and fibers in the forebrain of the little brown bat, *Myotis lucifugus lucifugus*. Anthony, E.L.P.; King, J.C.; Gustafson, A.W.; Damassa, D.A. *Bat Research News*, 1982, v. 23 (4), p. 57. ISSN: 0005-6227.

NAL call no: QL737.C5 B328

Descriptors: endocrine system, hormones, ovarian cycle, forebrain.

Apparent allomaternal care in an insectivorous bat, *Hipposideros speoris*. Marimuthu, G.; Selvanayagam, P.F.L. *Journal of Bombay Natural History Society*, 1981, no. 16, p. 55-69. ill.

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NAL call no: RB145.A1B57

Descriptors: plasminogen activator, therapeutic use, pulmonary embolism.

Vampire bat salivary plasminogen activator promotes rapid and sustained reperfusion without concomitant systemic plasminogen activation in a canine model of arterial thrombosis. Mellott, M.J.; Stabilito, I.I.; Holahan, M.A.; Cuca, G.C.; Wang, S.; Li, P.; Barrett, J.S.; Lynch, J.J.; Gardell, S.J. *Arteriosclerosis and Thrombosis*, Feb. 1992, v. 12 (2), p. 212-221. ISSN: 1049-8834.

Descriptors: arterial occlusive diseases, blood, fibrin metabolism, thrombosis.

Vampire bat salivary plasminogen activator exhibits a strict and fastidious requirement for polymeric fibrin as its cofactor, unlike human tissue-type plasminogen activator: A kinetic analysis. Bergum, P.W.; Gardell, S.J. *The Journal of Biological Chemistry*, Sep. 5, 1992, v. 267 (25), p. 17726-17731. ISSN: 0021-9258.

NAL call no: 381 J824

Descriptors: fibrin metabolism, salivary glands, plasminogen activators metabolism.

Vampire bat salivary plasminogen activator promotes robust lysis of plasma clots in a plasma milieu without causing fluid phase plasminogen activation. Hare, T.R.; Gardell, S.J. *Thrombosis and Haemostasis*, Aug. 1, 1992, v. 68 (2), p. 165-169. ISSN: 0340-6245.

Descriptors: antiplasmin pharmacology, fibrin, thrombosis drug therapy.

Ventilatory response to hypoxia and hypercapnia in the torpid bat, *Eptesicus fuscus*. Szewczak, J.M.; Jackson, D.C. *Respiration Physiology*, v. 88 (1-2), p. 217-232. 1992.

NAL call no: QP121 A1R4

Descriptors: hypoxia, hypercapnia, ventilatory response.

Apneic oxygenation in the torpid bat *Eptesicus fuscus*. Szewczak, J.M.; Jackson, D.C. Annual meeting of the American Society of Zoologists, American Microscopical Society, Animal Behavior Society, The Crustacean Society and The International Association of Astacology, Atlanta, GA Dec. 27-30, 1991. *Am Zool*, v. 31 (5), p. 75A, 1991.

NAL call no: 410 Am3

Descriptors: apnea, oxygenation, torpid bat.

Doppler radar a non-invasive technique for measuring ventilation rate in resting bats. Hays, G.C.; Webb, P.I.; French, J.; Speakman, J.R. *Journal of Experimental Biology*, v. 150 (0), p. 443-448. 1990.

NAL call no: 442.8 B77

Descriptors: ventilation rate, resting bats, measuring.

ON-OFF units in the mustached bat inferior colliculus are selective for transients resembling "acoustic glint" from fluttering insect targets. Lesser, H.D.; O'Neill, W.E.; Frisina, R.D.; Emerson, R.C. *Experimental Brain Research*, 1990, v. 82 (1), p. 137-148. ISSN: 0014-4819.

Descriptors: physiology, inferior colliculus, neurons, acoustic stimulation.

Recent literature. Griffiths, T. *Bat Research News*, 1990, v. 31 (3), p. 55-57. ISSN: 0005-6227.

NAL call no: QL737.C5 B328

Descriptors: Chiroptera, bibliographies, recent literature.

Recent literature. Anon. *Bat Research News*, 1990, v. 31 (2), p. 26-29. ISSN: 0005-6227.

NAL call no: QL737.C5 B328

Descriptors: Chiroptera, bibliographies, recent publications.

Seasonal changes in pancreatic insulin and glucagon in the little brown bat, *Myotis lucifugus*. Bauman, W.A. *Pancreas*, May, 1990, v. 5 (3), p. 342-346. ISSN: 0885-3177.

Descriptors: Glucagon metabolism, Insulin metabolism, seasons, pancreas.

Temperature effects on metabolism, ventilation and oxygen extraction in a neotropical bat. Chappell, M.A.; Roverud, R.C. *Respiration Physiology*, v.81 (3), p. 401-412. 1990

NAL call no: QP121 A1R4.

Descriptors: temperature, metabolism, ventilation, oxygen extraction.

The 20th Annual North American Symposium on Bat Research. Hoyst, G.R. *Bat Research News*, 1990, v. 31 (4), p. 67. ISSN: 0005-6227.

NAL call no: QL737.C5 B328

Descriptors: Chiroptera, meetings, North American Symposium on Bat Research.

Vampire bat salivary plasminogen activator is quiescent in human plasma in the absence of fibrin unlike human tissue plasminogen activator. Gardell, S.J.; Hare, T.R.; Bergum, P.W.; Cuca, G.C.; O'Neill, Palladino L.; Zavodny, S.M. *Blood*, Dec. 1990, v. 76 (12), p. 2560-2564. ISSN: 0006-4971.

NAL call no: RB145.A1B57

Descriptors: plasminogen inactivators, fibrin, fibrinogen, activator.

Isolation, characterization, and cDNA cloning of a vampire bat salivary plasminogen activator. Gardell, S.J.; Duong, L.T.; Diehl, R.E.; York, J.D.; Hare, T.R.; Register, R.B.; Jacobs, J.W.; Dixon, R.A.; Friedman, P.A. *The Journal of Biological Chemistry*, Oct. 25, 1989, v. 264 (30), p. 17947-17952. ISSN: 0021-9258.

NAL call no: 381 J824

Descriptors: cloning, molecular, DNA, genetics.

Subcellular localization of prolactin in the anterior pituitary cells of the female Japanese house bat (*Pipistrellus abramus*). Ishibashi, T.; Shiino, M. *Endocrinology*, Philadelphia, 1989, v. 124 (2), p. 1056-1063. ref. ISSN: 0013-7227.

NAL call no: 448.8 EN2

Descriptors: prolactin, anterior pituitary, cells.

The use of microchip implants for identifying big brown bats, *Eptesicus fuscus*. Barnard, S.M. *Animal Keepers Forum*, 1989, v. 16, p. 50-52.

NAL call no: QL77.5 A54

Descriptors: microchip, implant, identification.

Variation in secretory granule ultrastructure in the submandibular gland of three species of house bats. Tandler, B.; Phillips, C.J. 102 annual meeting of the American Association of Anatomists, New Orleans, LA. Apr. 8-12, 1989. *Anatomical Record*, v. 223 (4), p. 113A. 1989.

NAL call no: 447.8 AN1

Descriptors: submandibular gland, secretory granules, ultrastructure.

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NAL call no: 447.8 AR2

Descriptors: warm, cols, receptor activity, bats, mice.

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Descriptors: hemoglobin, bat, reindeer, biochemical studies.

Bovine leukemia virus. VII. In vitro replication of virus in bat lung cell culture NBL BLV 2. Patrascu, I.V. *Virologie*, Jul.-Sep. 1988, v. 39 (3), p. 199-205. ISSN: 0377-8177.

NAL call no: 448.3 R323

Descriptors: bovine leukemia virus, replication, bat lung cell culture.

Capture methods and holding devices. Kunz, T.H.; Kurta, A. *Ecological and Behavioral Methods for the Study of Bats*. Kunz, T.H. (ed.) 1988, p. 1-29. ISBN: 0874745969.

NAL call no: QL737.C5E3

Descriptors: capture, cages, Chiroptera.

Design and interpretation of laboratory thermoregulation studies. Kurta, A.; Fujita, M.S. *Ecological and Behavioral Methods for the Study of Bats*. Kunz, T.H. (ed.) 1988, p. 333-352. ISBN: 0874745969.

NAL call no: QL737.C5E3

Descriptors: thermoregulation, Chiroptera, body temperature, design.

Ecological and behavioral methods for the study of bats. Kunz, T.H. (ed.) Smithsonian Institution Press, Washington, DC, 1988, 533 p. ISBN: 0874745969.

NAL call no: QL737.C5E3

Descriptors: methodology, ecology, behavior, books, Chiroptera, laboratories.

How sensitive are bats to insecticides? Clark, D.R. Jr. *Wildlife Society Bulletin*, 1988, v. 16 (4), p. 399-403. ref. ISSN: 0091-7648.

NAL call no: SK357.A1W5

Descriptors: pesticides, insecticides, toxicity, organochlorine, milk.

Methods in Chiropteran mitotic chromosomal studies. Baker, R.J.; Qumsiyeh, M.B. *Ecological and Behavioral Methods for the Study of Bats*. Kunz, T.H. (ed.) 1988, p. 425-438. ISBN: 0874745969.

NAL call no: QL737.C5E3

Descriptors: mitosis, chromosomes, banding, Chiroptera, evolution.

Methods for determining water balance in bats. Bassett, J.E.; Studier, E.H. *Ecological and Behavioral Methods for the Study of Bats*. Kunz, T.H. (ed.) 1988, p. 373-386. ISBN: 0874745969.

NAL call no: QL737.C5E3

Descriptors: water balance, Chiroptera, methodology.

Methods of energy budget analysis. Kunz, T. H.; Nagy, K.A. *Ecological and Behavioral Methods for the Study of Bats*. Kunz, T.h. (ed.) 1988, p. 277-302. ISBN: 087475969.

NAL call no: QL737.C5E3

Descriptors: energy budget, food consumption, Chiroptera, radio active labeling.

Methods of measuring metabolic rate: Respirometry. Stack, M.H.; Rossi, D.J. *Ecological and Behavioral Methods for the Study of Bats*. Kunz, T.H. (ed.) 1988, p. 353-371. ISBN: 0874745969.

NAL call no: QL737.C5E3

Descriptors: metabolic rate, measuring techniques, Chiroptera.

Microclimate methods. Bakken, G.S.; Kunz, T.H. *Ecological and Behavioral Methods for the Study of Bats*. Kunz, T.H. (ed.) 1988, p. 303-333. ISBN: 0874745969.

NAL call no: QL737.C5E3

Descriptors: microclimate, air temperature, body temperature, Chiroptera.

Radiotelemetry: Techniques and analysis. Wilkinson, G.S.; Bradbury, J.W. *Ecological and Behavioral Methods for the Study of Bats*. Kunz, T.H. (ed.) 1988, p. 105-124. ISBN: 0874745969.

NAL call no: QL737.C5E3

Descriptors: radio-tagging, movements, technology analysis, chiroptera.

Training bats for behavioral studies. Gaudet, C.L. *Ecological and Behavioral Methods for the Study of Bats*. Kunz, T.H. (ed.) 1988, p. 265-275. ISBN: 0874745969.

NAL call no: QL737.C5E3

Descriptors: training, operant conditioning, motivation, unconditioned response.

The use of microchip implants for identifying big brown bats, *Eptesicus fuscus*. Barnard, S.M. *Animal Keepers Forum*, 1989, v. 16, p. 50-52.

NAL call no: QL77.5 A54

Descriptors: microchip implants, identifying, bats.

VIP-like immunoreactivity in the anterior hypothalamic area of a hibernating bat varies with physiological state.

Laemle, L.K.; Cotter, J.R. *Brain Research*, Feb. 16, 1988, v. 441 (1-2), p. 398-402. ISSN: 0006-8993.

NAL call no: Film S-1779

Descriptors: body temperature, heart rate, immunoenzyme techniques.

Characterization of LH-RH immunoreactivity in mammalian pituitary neural lobe by HPLC. Anthony, E.L.; Wu, P.; Bruhn, T.O.; Jackson, I.M. *Brain Research*, Oct. 27, 1987, v. 424 (2), p. 258-263. ISSN: 0006-8993.

NAL call no: Film S-1779

Descriptors: chromatography, radioimmunoassay, pituitary gland.

Comparative size of vestibular nuclei in relation to flight behavior in Chiroptera. Baron, G.; Stephan, H.; Frahm, H. *European Bat Research 1987*. Proceedings of the Fourth European Bat Research Symposium. Prague, Czechoslovakia. Aug. 18-23, 1987. i-xxiii. 1-718: Chapter pagination 263-268. ill.

Descriptors: Chiroptera, size, comparative study, flight capacity, brain, flight.

Chromosome studies in Finnish bats. Hongell, K.; Hagner, N.; Lokki, J.; Stjernberg, T. *European Bat Research 1987*. Proceedings of the Fourth European Bat Research Symposium. Prague, Czechoslovakia. Aug. 18-23, 1987. Charles University Press, Prague, 1989. i-xxiii. 1-718: Chapter pagination 101-104. Descriptors: *Eptesicus nilssonii*, *Myotis*, karyotype.

Evaporative water loss in hibernating bats. Cloutier, D. *Bat Research News*, 1987, v. 28 (3-4), p. 33. ISSN: 0005-6227.
NAL call no: QL737.C5 B328
Descriptors: water relations, evaporative loss during hibernation, hibernation.

The fruit bat as an experimental model of the neuropathy of cobalamin deficiency. Metz, J.; Westhuyzen, J. van der. *Comparative Biochemistry and Physiology A: Comparative Physiology*, 1987, v. 88 (2), p. 171-177. ref. ISSN: 0300-9629.
NAL call no: QP1.C6
Descriptors: vitamin B12, deficiency, nervous system diseases, disease models.

Load carrying by flying bats. Rayner, J.M.V.; Jones, G.; Hughes, P.M. *European Bat Research 1987*. Proceedings of the Fourth European Bat Research Symposium. Prague, Czechoslovakia. Aug. 18-23, 1987. Charles University Press, Prague, 1989: i-xxiii, 1-718. Chapter pagination 235-245. ill.
Descriptors: *Eptesicus serotinus*, biomechanics, aerodynamics, effect of load carrying, skeletal musculature, flight, performance.

Peripheral nerve conduction in the fruit bat with nitrous oxide induced vitamin B12 deficiency. Wright, P.G.; Westhuyzen, J. van der. *Comparative Biochemistry and Physiology: A Comparative Physiology*, 1987, v. 88 (2), p. 253-255. ref. ISSN: 0300-9629.
NAL call no: QP1.C6
Descriptors: vitamin B12 deficiency, nervous system diseases.

The taxonomic implication of different morphological systems in bats. Tiunov, M.P. *European Bat Research 1987*. Proceedings of the Fourth European Bat Research Symposium. Prague, Czechoslovakia. Aug. 18-23, 1987. Charles University Press, Prague, 1989: i-xxiii, 1-718. Chapter pagination 67-75. ill.
Descriptors: Chiroptera, tongue, accessory glands of male, morphology.

Tissue folates in fruit bats (*Rousettus aegyptiacus*) with nitrous oxide-induced vitamin B12 deficiency and neurological impairment. Westhuyzen, J. van der; Davis, R.E.; Icke, G.C.; Metz, J. *British Journal of Nutrition*, 1987, v. 58 (3), p. 485-491. ref. ISSN: 0007-1145.
NAL call no: 389.8 B773
Descriptors: vitamin B12, deficiency nervous system diseases.

Recent advances in the study of bats. Fenton, M. Brock (Melville Brockett), 1943; Racey, Jeremy M..V., International Bat Research Conference 3rd, University of Aberdeen. Cambridge University Press, 1987, xii, 470 p., ill. ISBN: 0521321603.
NAL call no: QL737.C5R29
Descriptors: Bats, Congress.

Scanning electron microscopic observations of the dorsal tongue surface in the Japanese house bat, *Pipistrellus abramus*. Iwasaki, S.; Miyata, K.; Wakasugi, C.; Kobayashi, K. *Journal Mammal. Soc.*, Japan, 1986, v. 11 (3-4), p. 155-164. ill.
Descriptors: dorsal tongue surface, bat, scanning electron microscope.

Studies on the metabolism of piperine: Absorption, tissue distribution and excretion of urinary conjugates in bats. Ganesh, Bhat B.; Chandrasekhara, N. *Toxicology*, 1986, v. 40 (1), p. 83-92.

NAL call no: RA1190 T69

Descriptors: piperine, metabolism, excretion, rats, tissues.

Chromosomes of house bat *Pipistrellus abramus temminck*. Yin Liuyong; Xie Xingfu; Shi Yijun; Shan Caihua. *Acta Zool. Sin.* 1985, v. 31 (3), p. 296-298. ill.

NAL call no: 410 AC87

Descriptors: chromosomes, house bat.

Interspecific comparison of subcutaneous tissue fluid pressure in the bat wing. Bassett, J.E.; Wiederhielm, C.A.; Hogan, R.D. *Microvascular Research*, 1985, v. 30 (1), p. 75-79. ill. ISSN: 0026-2862.

Descriptors: forelimbs, osmotic relations, wing subcutaneous fluid pressure.

Plasma amino acids and tissue methionine levels in fruit bats (*Rousettus aegyptiacus*) with nitrous oxide induced vitamin B-12 deficiency. Westhuyzen, J.van der; Tonder, S.V. van; Gibson, J.E.; Kilroe-Smith, T.A.; Metz, J. *British Journal of Nutrition*, 1985, v. 53 (3), p. 657-662. ref. ISSN: 0007-1145.

NAL call no: 389.8 B773

Descriptors: vitamin B12, deficiency, amino-acids, blood, methionine.

The sensory basis of prey location by the California leaf-noses bat, *Macrotus californicus* (Chiroptera: Phyllostomidae). Bell, Gary P. *Behavioral Ecology & Sociobiology*, 1985, v. 16 (4), p. 343-347. ISSN: 0340-5443.

NAL call no: QL751.B4

Descriptors: predatory behavior, foraging behavior.

Ventilation and lung oxygen extraction in the bat *Pteropus poliocephalus* acutely exposed to simulated altitudes from 0 to 11 kilometers. Thomas, S.P.; Thomas, D.B.; Thomas, G.S. 69th Annual Meeting of the Federation of American Societies for Experimental Biology, Anaheim, CA. Apr. 21-26, 1985. *Fed Proc*, v. 44 (4), p. 1349.

NAL call no: 442.9 F31P

Descriptors: lung oxygen extraction, ventilation, altitudes.

Betaine delays the onset of neurological impairment in nitrous oxide-induced vitamin B-12 deficiency in fruit bats. Westhuyzen, J. van der; Metz, J. *Journal of Nutrition*, 1984, v. 114 (6), p. 1106-1111. ref. ISSN: 0022-3182.

NAL call no: TX341.J6

Descriptors: vitamin B12, deficiency, nervous system diseases, betaine.

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NAL call no: QL737.C5 B328

Descriptors: Chiroptera, stomach, neurosecretion, hormones, neuropeptides.

Effect of L-dihydroxyphenylalanine (L-dopa) and methionine on tissue S-adenosylmethionine concentrations in cobalamin-inactivated fruit bats. Gibson, J.; Westhuyzen, J. van der. *International Journal for Vitamin and Nutrition Research*, 1984, v. 54 (4), p. 329-332. ref. ISSN: 0300-9831.

NAL call no: 389.8 Z33

Descriptors: vitamin B12, deficiency, tissues, adenosylmethionine, dopa, supplements.

Lipid composition of the brain in the cobalamin inactivated fruit bat *Rousettus aegyptiacus*. Westhuyzen, J. van der; Gibson, J.E. *International Journal for Vitamin and Nutrition Research*, 1984, v. 54 (2-3), p. 205-210. ref. ISSN: 0300-9831.

NAL call no: 389.8 Z33

Descriptors: vitamin B12, deficiency, lipids, brain, folic acid, supplements.

A suspected infrared-recipient nucleus in the brainstem of the vampire bat, *Desmodus rotundus*. Kishida, R.; Goris, R.C.; Terashima, S.; Dubbeldam, J.L. *Brain Research*, Nov. 26, 1984, v. 322 (2), p. 351-355. ISSN: 0006-8993.

NAL call no: Film S-1779

Descriptors: physiology. Phylogeny, snakes anatomy, Chiroptera.

Unusual smooth endoplasmic reticulum in submandibular acinar cells of the male round-eared bat, *Tonatia sylvicola*. Nagato, T.; Tandler, B.; Phillips, C.J. *Journal of Ultrastructure Research*, 1984, v. 87 (3), p. 275-284. ill.

NAL call no: 440.8 J822

Descriptors: endoplasmic reticulum, salivary glands, gland acinar cells, submandibular.

Ventilation and oxygen extraction in the bat *Phyllostomus hastatus* during rest and steady flight. Thomas, S.P.; Lust, M.R.; Van Riper, H.J. *Physiological Zool.* 1984, v. 57 (2), p. 237-250. ill.

NAL call no: 410 P56

Descriptors: ventilation, oxygen extraction, rest, steady flight.

Vitamin B12 deficiency alters the distribution of membrane proteins on linear sucrose gradients in the fruit bat brain. McLoughlin, J.L.; Cantrill, R.C. *Neuroscience Letters*, Aug. 24, 1984, v. 49 (1-2), p. 175-180. ISSN: 0304-3940.

NAL call no: QP351 N3

Descriptors: brain chemistry, metabolism, vitamin B12 deficiency, Chiroptera.

Effect of vitamin B12 deficient diet on lipid and fatty acid composition of spinal cord myelin in the fruit bat.

Westhuyzen, J. van der; Cantrill, R.C.; Fernandes, Costa F.; Metz, J. *Journal of Nutrition*, 1983, v. 113 (3), p. 531-537. ref. ISSN: 0022-3166.

NAL call no: 389.8 J82

Descriptors: fatty acids, myelin, spinal cord, vitamin B12, deficiency.

Tissue S-adenosylmethionine levels in fruit bats (*Rousettus aegyptiacus*) with nitrous oxide-induced neuropathy.

Westhuyzen, J. van der; Metz, J. *British Journal of Nutrition*, 1983, v. 50 (2), p. 325-330. ref. ISSN: 0007-1145.

NAL call no: 389.8 B773

Descriptors: nervous system diseases, aetiology, nitrous oxide, adenosylmethionine.

Visual accommodation in the flying fox, *Pteropus giganteus*. Murphy, C.J.; Howland, H.C.; Kwiecinski, G.G.; Kern, T.; Kallen, F. *Vision Research*, 1983, v. 23 (6), p. 617-620. ISSN: 0042-6989.

Descriptors: ocular, ciliary body, ultrastructure, muscle, microscopy.

Cobalamin inactivation by nitrous oxide produces severe neurological impairment in fruit bats: Protection by methionine and aggravation by folates. Westhuyzen, J. van der; Fernandes, Costa F.; Metz, J. *Life Sciences*, UK, 1982, v. 31 (18), p. 2001-2010. ref.

NAL call no: 442.8 L62

Descriptors: vitamin B12, inactivation, nitrous oxide, methionine, supplements.

A guide to some apparatus for research on ultrasound. Woodside, D. *Australian Bat Research News*, 1982, v. 18, p. 4.

NAL call no: QL737.C5 B328

Descriptors: sound recording techniques, ultra sound apparatus, guide.

Habitat aridity and intraspecific differences in the urine concentrating ability of insectivorous bats. Bassett, J.E.

Comparative Biochemistry and Physiology A: 1982, v. 72A (4), p. 703-708.

NAL call no: QP1.C6

Descriptors: renal function, water balance, habitat, arid zones.

Role of immunoglobulin classes in experimental histoplasmosis in bats. McMurray, D.N.; Stroud, J.; Murphy, J.J.;

Car Iomagna, M.A.; Greer, D.L. *Dev Comp Immunol*, Summer 1982, v. 6 (3), p. 557-567. ISSN: 0145-305X.

NAL call no: QR180.D4

Descriptors: immunoglobulins, role, histoplasmosis.

A test of the validity of two currently used methods of determining bat prey preferences. Rabinowitz, A.R.; Tuttle,

M.D. *Acta Theriol*, 1982, v. 27 (13-24), p.283-293.

NAL call no: 410 AC88

Descriptors: test, validity, methods, prey preference.

Training bats for behavioral studies in the laboratory. Gaudet, C.L. *Bat Research News*, 1982, v. 23 (3), p. 27-29.

ISSN: 0005-6227.

NAL call no: QL737.C5 B328

Descriptors: learning, training to fly to target in laboratory.

Are CNS neurons polyploid? A critical analysis based upon cytophotometric study of the DNA content of cerebellar and olfactory bulbar neurons of the bat. Swartz, F.J.; Bhatnagar, K.P. *Brain Research*, Mar. 16, 1981, v. 208 (2), p. 267-281. ISSN: 0006-8993.

NAL call no: Film S-1779

Descriptors: cerebellum cytology, DNA metabolism, olfactory bulb cytology.

Lipid composition of the brain in the vitamin B12 deficient fruit bat (*Rousettus aegyptiacus*) with neurological impairment. Westhuyzen, J. van der; Cantrill, R.C.; Fernandes, Costa, F.; Metz, J. *Journal of Neurochemistry*, 1981, v. 37 (3), p. 543-549. ref. ISSN: 0022-3042.

NAL call no: QP351 J6

Descriptors: brain, lipids, vitamin B12, deficiency.

Organization of the retinofugal fibers to the dorsal lateral geniculate nucleus of *Pteropus giganteus*. Petney, R.P.;

Cotter, J.R. *Experimental Brain Research*, 1981, v. 41 (3-4), p. 427-430. ISSN: 0014-4819.

Descriptors: geniculate bodies, anatomy, histology, retina anatomy and histology.

The pineal gland of nocturnal mammals. II. The ultrastructure of the pineal gland in the pipistrelle bat (*Pipistrellus pipistrellus* L.): Presence of two populations of pinealocytes. Pevet, P.; Racey, P.A. *Cell and Tissue Research*, 1981, v. 216 (2), p. 253-271. ISSN: 0302-766X.

NAL call no: QH581.A1Z4

Descriptors: pineal body, ultrastructure, anatomy, cell nucleus ultrastructure.

Ventilation and oxygen extraction in the bat *Pteropus gouldii* during rest and steady flight. Thomas, S.P. *Journal of Experimental Biology*, 1981, v. 94, p. 231-250. ill.

NAL call no: 442.8 B77

Descriptors: ventilation, oxygen extraction, bat, rest, flight.

Comparative electroretinography in phyllostomid and vespertilionid bats. Hope, G.M.; Bhatnagar, K.P.

Proceedings of the International Bat Research Conference 5, 1980, p. 79-89. ill.

NAL call no: QL737 C5I55 1978

Descriptors: functioning of eye, electroretinogram.

Care and management of the long-tongued bat, *Glossophaga soricina* (Chiroptera: Phyllostomatidae), in the laboratory, with observations on estivation induced by food deprivation. Rasweiler, J.J. IV. *Journal of Mammalogy*, May 1973, v. 54 (2), p. 391-404. ISSN: 0022-2372.

NAL call no: 410 J823

Descriptors: care, management, long-tongued bat, laboratory.

An improved cage design for maintaining vampire bats, *Desmodus*, and other bats for experimental purposes, Wimsatt, W.A.; Guerriere, A.; Horst, R. *Journal of Mammalogy*, Feb. 1973, v. 54 (1), p. 251-254. ISSN: 0022-2372.

NAL call no: 410 J823

Descriptors: cage design, vampire bats and others, maintaining.

Maintaining frugivorous phyllostomatid bats in the laboratory: *Phyllostomus*, *Artibeus*, and *Sturnira*. Rasweiler, J.J. IV.; Ishiyama, V. *Laboratory Animal Science*, Feb. 1973, v. 23 (1), p. 56-61. ISSN: 0023-6764.

NAL call no: 410.9 P94

Descriptors: frugivorous bats, maintaining, laboratory.

Preparation of the bat wing for in vivo microscopy. Wiedeman, M.P. *Microvascular Research*, May, 1973, v. 5 (3), p. 417-422. ISSN: 0026-2862.

Descriptors: catheterization, methods, micromanipulation, microscopy.

Laboratory maintenance methods for some nectarivorous and frugivorous phyllostomatid bats. Rasweiler, J.J. IV.; DeBonilla, H. *Laboratory Animal Science*, Oct. 1972, v. 22 (5), p. 658-663. ISSN: 0023-6764.

NAL call no: 410.9 P94

Descriptors: laboratory maintenance, nectarivorous, frugivorous, bats.

A new method of bleeding small and infant bats. Baer, G.M.; McLean, R.G. *Journal of Mammalogy*, 1972, v. 53, p. 231-232. ISSN: 0022-2372.

NAL call no: 410 J823

Descriptors: method, bleeding, infant bats.

An atypical bat thyroid extrafollicular cell. Nunez, E.A. *Journal of Ultrastructure Research*, Aug. 1971, v. 36 (3), p. 411-418. ISSN: 0022-5320.

NAL call no: 440.8 J822

Descriptors: thyroid gland cytology, Chiroptera, cell membrane and nucleus.

Operant conditioning in the bat *Phyllostomus hastatus*. Beecher, M.D. *Journal of the Experimental Analysis of Behavior*, Sept. 1971, v. 16 (2), p. 219-223. ISSN: 0022-5002.

Descriptors: conditioning, reinforcement, Chiroptera, behavior, learning.

The breeding, care and management of vespertilionid bats in the laboratory. Racey, P.A. *Laboratory Animals*, Oct. 1970, v. 4 (2), p. 171-183. ISSN: 0023-6772.

NAL call no: QL55.A1L3

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http://www.health.gov.au/internet/main/Publishing.nsf/Content/cda-pubs-other-bat_lyssa.htm

Information on pre and post exposure and treatment plus State and Territory Public Health contacts from the Australian Department of Public Health and Ageing.

AZA Bat Taxon Advisory Group.

<http://www.aza.org/ConScience/ConScienceTAGFact>

Members Only Database. From the American Zoo and Aquarium Association. Education, species listing, husbandry manual, regulatory, enrichment and links.

Bat Atlas.

<http://fennerschool-associated.anu.edu.au/batatlas/index.html>

Up-to-date information on flying-foxes, especially in Australia.

Bat Brood and Nesting Boxes.

<http://dragonet.com/bat/>

Purchase bat brooding and nest boxes.

Bat Conservation International.

www.batcon.org/

Bat information, conservation information, publications, annual report.

Bat Conservation and Management.

www.batmanagement.com/

Services related to bats, roosts, links, etc.

Bat Ecology and Bioacoustic Lab. - Bristol.

<http://www.bio.bris.ac.uk/research/bats/index.htm>

Journal papers, books, short works, etc. Bat web, bioacoustics.

Bat Facts.

<http://nationalzoo.si.edu/animals/smallmammals/fact-bats.cfm>

General information on bats from the Smithsonian Institution.

BATS - Management Initiatives for the Sustainability of Bat Populations.

<http://users.erols.com/nolan/vivian/bats.htm>

Lots of good information on managing and sustaining bat populations.

Information on bats, animal printouts, label me printouts for kids.

Bat Research Laboratory.

<http://www.cs.iupui.edu/~bat/>

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www.cccoe.k12.ca.us/bats/welcome.html

Resources, publications, science, art, environment.

Big Brown Bat.

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General information of the Big Brown Bat from the Nature Center.

Big Brown Bat Coloring Page.

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Build a Bat House.

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From the University of Nebraska Cooperative Extension. Instructions on how to build a bat house.

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<http://pw1.netcom.com/~t-rex/BatDetector.html>

Instructions on how to build a simple bat detector plus kits and assembled detectors.

Canadian Bat Resources.

www.cancaver.ca/bats/

Information on Canadian bats and conservation.

Centre chauves-sauves Suisse occidentale/Swiss Bat Centre.

www.ville-ge.ch/musinfo/mhng/cco/

Database of more than 900 scientific bibliographic references in English and French.

Chiroptera Cabin Company.

www.chiropteracabins.com

Cabins and condos for Chiroptera Cuties. Bat houses, cabins, boxes, condos.

Chiroptera Neotropical.

www.unb.br/ib/zoo/chiroptera/

Newsletter of the World Conservation Union & Chiroptera specialists Group. Articles, news, publications, links.

Chiroptera Nightfliers.

www.ucmp.berkeley.edu/mammal/eutheria/chiroptera.html

Fossil records, Life history & Ecology, Systematics morphology.

D.I.Y. Bat Detector (low cost).

www.btinternet.com/~mr.pentops/bat.htm

A project to convert a small transistor radio into an ultrasonic detector for listening to bats. Instructions on how to do it.

The Evolution Store.

www.evolutionnyc.com/IBS/SimpleCat/Shelf/Hierarchy/020y.html

Prints, books, medical models, fossils, etc.

The Hoary Bat.

<http://www.batcon.org/SPprofiles/detail.asp?articleID=103>

General information about the hoary bat.

House Bat Management - USGS.

<http://www.npwrc.usgs.gov/resource/mammals/housebat/index.htm>

Information and procedures on managing house bats, hazards, problems, public health hazards, repellents, bat proofing, etc.

Infant Insectivorous Bat Rehabilitation.

www.skypoint.com/members/mikefry/bat.html

Information on raising and rehabilitating of infant insectivorous bats.

Kaushik Ghose: attention in the bat's echolocation system.

<http://www.bsos.umd.edu/psyc/batlab/>

Research information from the University of Maryland Bat Lab and links.

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www.wildlife.state.nh.us/Wildlife/Wildlife_profiles/profile_LB_bat.htm

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Mammal Image Library Catalog.

<http://www.mammalogy.org/image-library>

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Mexican Free-Tailed Bat.

www.thewildones.org/Animals/mexFree.html

General information about the Mexican Free-Tailed Bat plus other information about bats for kid. In Spanish and English.

Model Systems in Neuroethology-Echolocation in the Bat.

http://nelson.beckman.uiuc.edu/courses/neuroethol/models/bat_echolocation/bat_echolocation.html

Information on echolocation and the auditory cortex in bats.

North American Symposium on Bat Research.

www.nasbr.org/

A society to promote and develop the scientific study of bats. workshops and conferences.

Order Chiroptera.

<http://animaldiversity.ummz.umich.edu/chordata/mammalia/chiroptera.html>

Information on Megachiroptera and Microchiroptera from the University of Michigan Museum of Zoology.

Scott's Bat House Page.

<http://users.ms11.net/~habitat/bat/bathome.htm>

Bat house designs and links to other sites.

South-Eastern Australia Bat Call Library.

<http://batcall.csu.edu.au/batcall1.html>

A directory of recorded bat calls and an exchange for bat calls. A central source of reference calls of SE Australian bats.

Walker's Mammals of the World Online - Order Chiroptera.

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Information on bat families from Johns Hopkins University Press.

Western Red Bat.

http://www.gf.state.az.us/w_c/nongame_western_red_bat.shtml

General information on the Western Red Bat.

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