

9. References

List of 613 references to earlier literature on the rhinoceros in captivity.

- Achard PL, McCulloch B (1967) Creation of a Zoo in Tanzania: Saanane Island Game Reserve. *International Zoo Yearbook* 7:235-240
- Adcock K, Emalie R (1994) The role of trophy hunting in white rhino conservation, with special reference to Bop parks. In: Penzhorn BL, Kriek NRJ (eds) *Proceedings of a Symposium on Rhinos as Game Ranch Animals*, Onderstepoort, Republic of South Africa, 9-10 September 1994, pp 35-41
- Albinus BS (1747) *Tabulae sceleti et musculorum corporis humani*. Lugduni Batavorum
- Ali SA (1927) The breeding of the Indian rhinoceros (*Rhinoceros unicornis*) in captivity. *Journal of the Bombay Natural History Society* 31(4):1031
- Ali SA, Santapau H (1958) Birth of a great Indian rhinoceros in captivity. *Journal of the Bombay Natural History Society*, 55(1):157-158, 1 pl
- Amato G, Wharton D, Zainuddin ZZ, Powell JR (1995) Assessment of conservation units for the Sumatran rhinoceros (*Dicerorhinus sumatrensis*). *Zoo Biology* 14:395-402
- Andersen S (1963) Sumatran rhinoceros (*Didemocrus sumatraensis*) at Copenhagen Zoo. *International Zoo Yearbook*, 3:56-57
- Anderson J (1872) Notes on *Rhinoceros sumatrensis*, Cuvier. *Proceedings of the Zoological Society of London* 1872:129-132
- Anderson J (1883) *Guide to the Calcutta Zoological gardens*. Calcutta
- Anonymous (1835) [The rhinoceros.] *Dublin Penny Journal* 4(165):68-69, 1 pl
- Anonymous (1872) The Sumatra rhinoceros. *Illustrated London News* 23 March 1872:284
- Anonymous (1878) *List of Animals in the Zoological Gardens, Calcutta*. Printed at the Bengal Secretariat Press
- Anonymous (1895) The Sumatra rhinoceros in the Leipzig zoological garden. *Scientific American* 72(16):245, 1 fig
- Anonymous (1896a) All about animals for old & young: popular, interesting, amusing. London
- Anonymous (1896b) *Geschäftsbericht für das Breslauer Zoologische Garten für das Jahr 1895*. *Zoologische Garten* 37(9):278-283
- Anonymous (1918) Death of the Indian rhinoceros. *Zoological Society Bulletin*, New York 21(5):1673
- Anonymous (1924) Indian rhino, young female. *Zoological Society Bulletin*, New York, 27(3):72, 1 fig
- Anonymous (1930) *Nachrichten aus Dresden*. *Zoologische Garten (NF)* 2:352-353
- Anonymous (1952) A rhinoceros at last. *Zoonooz*, San Diego 25(10):2-3, 2 figs
- Anonymous (1955) [Arrival of Kanakbala.] *America's First Zoo*, Philadelphia 7(4):1-2
- Anonymous (1959) [Arrival of Sumatran rhinoceros in Basel.] *Freunde des Kölner Zoo* 2(3):24, 1 fig
- Anonymous (1966) White rhino in Kenya. *Africana* 2(8):19
- Anonymous (1974) The birth of an Indian rhinoceros. *The Zoogoer*, Washington 3(2):3-7, 4 figs
- Anonymous (1990) *Mysore Zoo and Baroda Zoo. Zoos' Print*, Coimbatore 5(6):24
- Anonymous (1992) *Rhinoceros: The Horn of a Dilemma*. National Museums & Galleries on Merseyside, Liverpool
- Anonymous (1995) A rhino named Jafar. *Zoonooz*, San Diego 68(2):7, 2 figs
- Antonius O (1937) *Bilder aus dem früheren und jetzigen Schönbrunner Tierbestand. I. Nashörner*. *Zoologische Garten (NF)* 9:18-26, figs 1-7
- Aritake T (1959) Transporting 'King of Tama', the male Indian rhinoceros. *Animals and Zoo*, Tokyo 11(2):16-18, 3 figs
- Aschaffenburg R, Gregory ME, Rowland SJ, Thompson SY, Kon VM (1961) The composition of the milk of the African black rhinoceros (*Diceros bicornis*; Linn.). *Proceedings of the Zoological Society of London* 137:475-479, fig 1
- Atkins T (1838) *List of the animals in the Liverpool Zoological Gardens, with notices respecting them*. Liverpool
- Baetens R (1993) *De roep van het paradijs: 150 jaar Antwerpse Zoo*. Tiel
- Ball V (1877) Notes on certain mammals occurring in the Basin of Mahanadi. *Proceedings of the Asiatic Society of Bengal*, July 1877:168-172
- Barnaby D (1988) *The Elephant who Walked to Manchester*. Plymouth
- Barnaby D (1995) Dispersal of the animals from the Broughton Zoological Gardens. *Journal, The Bartlett Society* 6:24-25
- Barrow JH (1832) *Characteristic sketches of animals, principally in the Zoological Gardens, Regent's Park, drawn from the life and engraved by Thomas Landseer: with descriptive and illustrative notices*. London
- Barth JM (1747) *Schreiben an einen guten Freund*. Regensburg
- Bartlett AD (1873) On the birth of a Sumatran rhinoceros. *Proceedings of the Zoological Society of London* 1873:104-105, 1 pl
- Basel Zoo (1980) Tobler K, Rüedi D (eds) *International Studbook for the Great Indian Rhinoceros *Rhinoceros unicornis**, 2nd edn. Basel
- Basel Zoo (1982) *Idem*, 3rd edn
- Basel Zoo (1985) *Idem*, 4th edn
- Basel Zoo (1988) *Idem*, 5th edn
- Basel Zoo (1991) *Idem*, 6th edn
- Basel Zoo (1993) *Idem*, 7th edn
- Basel Zoo (1995) *Idem*, 8th edn
- Basel Zoo (1997) *Idem*, 9th edn, Wirz-Hlavacek G, Studer P (eds)
- Bastin J (1990) The natural history researches of Dr Thomas Horsfield (1773-1859), first American naturalist of Indonesia. In: Thomas Horsfield, *Zoological Researches in Java, and the Neighbouring Islands*. Singapore, pp 1-97
- Basu B (1910-1913) Report of the Honorary Commit-

- tee for the Management of the Zoological Garden, for the year 1909-1910 [1910]; 1911-1912 [1912]; 1912-1913 [1913].
- Bean EH (1941) Baby rhinoceros at Chicago zoological park. *White Tops*, Christmas 1941:8
- Beaux O de (1912) Über einige Säugetiere in Carl Hagenbecks Tierpark in Stellingen. *Zoologische Anzeiger* 39:561-575, figs 1-6
- Beddard FE, Treves F (1887) On the anatomy of the Sondaic rhinoceros. *Transactions of the Zoological Society of London* 12:183-198, pls 33-37, 3 figs
- Beddard FE, Treves F (1889) On the anatomy of Rhinoceros sumatrensis. *Proceedings of the Zoological Society of London* 1889:7-25, figs 1-10
- Begg TB (1986) Transportation of the rhinos from Sumatra. *Help Newsletter*, Friends of Howletts and Port Lympne 8:24-25
- Begg TB (1988) The Sumatran Rhino project. *Help Newsletter*, Friends of Howletts and Port Lympne 10:12-13, 2 figs
- Bergen CA von (1746) *Oratio de rhinocerote*. Francofurti ad Viadrum
- Bergh W van den (1955) Nos rhinocéros blancs (*Ceratotherium simum cottoni* Lydekker). *Zoologische Garten* (NF) 21(3):129-151, figs 1-17
- Berkheij J le Franq van (1784) *Eerste catalogus van de uitgebreide systematische natuurkundige verzameling van teekeningen, printen en afgezette afbeeldingen*. Amsterdam
- Bernier F (1699) *Voyages, contenant la description des Etats du Grand Mogol, de l'Hindoustan, du Royaume de Kachimiri*, vol 2. Amsterdam
- Bhandary SR, Tuladhar BS, Thapa BR, Jha JS (1990) Malicious poisoning in rhinoceroses: a case report. *Bulletin Veterinarian Science & Animal Husbandry*, Kathmandu 17/18:19-24
- Bhatia CL, Desai JH (1971) Breeding of the Indian rhinoceros (*Rhinoceros unicornis*) at Delhi zoological park. *Journal of the Bombay Natural History Society* 68(3):820-823, 1 pl
- Bhatia CL, Desai JH (1975) Breeding the Indian rhinoceros at Delhi zoological park. In Martin RD (ed) *Breeding Endangered Species in Captivity*, pp 303-307, figs 1-2. London
- Bhattacharyya BK, Goswami UC (1987) Some observations on the process of parturition, neonate and maternal behaviour in Great Indian one horned rhinoceros (*Rhinoceros unicornis*). *Zoos' Print*, Coimbatore 2(8):6-8, 1 fig
- Bigalke R (1946) The regeneration of the anterior horn of the black rhinoceros, *Diceros bicornis* (Linn.). *Proceedings of the Zoological Society of London* 115:323-326, pls 1-2
- Bigalke R (1947) Pretoria zoo has a baby white rhinoceros. *Animal Kingdom* 50(2):48-55, figs 1-8
- Bigalke R (1961) White rhinos at Pretoria Zoo. *International Zoo Yearbook* 2:43-44
- Bigalke R (1975) Das Breitmaulnashorn (*Ceratotherium simum simum*) zum ersten Male in einem Zoo. *Zoologische Garten* (NF) 45(1):4-8, figs 1-3
- Bigalke R, Steyn T, De Vos D, De Waard K (1950) Observations on a juvenile female square-lipped rhinoceros (*C.s.simum* (Burch.)) in the National Zoological Gardens of South Africa. *Proceedings of the Zoological Society of London* 120:519-528, pls 1-3
- Bingley W (1804) *Animal Biography; Or, Authentic Anecdotes or the Lives, Manners, and Economy, of the Animal Creation, Arranged According to the System of Linnaeus*, 2nd edn, vol 1: Quadrupeds. London
- Blaszkiewicz B (1980) Gedanken zur Haltung des Panzernashorns (*Rhinoceros unicornis* Linné, 1758). *Zoologische Beiträge* (NF) 26:69-108
- Blaszkiewicz B (1983) Nashörner im Zoo (gefährdete Riesen in Menschenhand). *Sitzungsberichte der Gesellschaft naturforschender Freunde zu Berlin* (NF) 23:54-57, 1 fig
- Blaszkiewicz B (1986) *Diceros 'tricornis': ein dreihörniges Spitzmaulnashorn im Berliner Zoo*. Bongo, Berlin 11:123-124
- Blaszkiewicz B (1991a) Anmerkungen zu Lebensalter und Reproduktionsrate Berliner Nashörner. In: Klös and Frese 1991, pp 37-43, figs 1-5
- Blaszkiewicz B (1991b) Panzernashorn (*Rhinoceros unicornis*): Bilder aus dem Tierpark Berlin-Friedrichsfelde. *Milu*, Berlin 7(3):229-235, figs 1-8
- Blaszkiewicz B (1992) Das neue Elefantenhaus im Tierpark Berlin-Friedrichsfelde. *Zoologische Garten* (NF) 62(4):212-221, figs 1-11
- Blaszkiewicz B (1993a) 32jähriges Breitmaulnashorn (*Ceratotherium simum*) gestorben. *Zoologische Garten* (NF) 63(3):207
- Blaszkiewicz B (1993b) Breitmaulnashorn (*Ceratotherium simum*): Bilder aus dem Tierpark Berlin-Friedrichsfelde. *Milu*, Berlin 7:51-56, figs 1-7
- Blaszkiewicz B (1994a) Erneut: Stirnhorntragendes Nashorn. *Zoologische Garten* (NF) 64(2):111, fig 1
- Blaszkiewicz B (1994b) Spitzmaulnashorn (*Diceros bicornis*): Bilder aus dem Tierpark Berlin-Friedrichsfelde. *Milu*, Berlin 8:110-115, figs 1-7
- Blaszkiewicz B (1995) Frühe Geschlechtsreife bei einem Panzernashorn-♀ (*Rhinoceros unicornis*). *Zoologische Garten* (NF) 65 (4):267
- Blumenbach JF (1791) Anmerkungen in: J. Bruce, *Reisen zur Entdeckung der Quellen des Nils in den Jahren 1768, 1769, 1770, 1771, 1772, und 1773*, vol 5. Leipzig
- Blunt W (1976) *The Ark in the Park: The Zoo in the Nineteenth Century*. London
- Blyth E (1862) A memoir of the living Asiatic species of rhinoceros. *Journal of the Asiatic Society of Bengal* 31(2):151-175, pls 1-4
- Blyth E (1863) *Catalogue of the Mammalia in the Museum Asiatic Society*. Calcutta
- Blyth E (1868/1869) Rhinoceros shedding their horns. *Journal of Travel and Natural History* 1:70
- Blyth E (1875) *Catalogue of the mammals and birds of Burma*. *Journal of the Asiatic Society of Bengal* 44(extra No):1-167
- Böer M, Hamza H (1996) Haltung und Zucht des Breitmaulnashorns (*Ceratotherium s. simum*) in Serengeti Safaripark Hohenhausen. *Zoologische Garten* (NF) 66(6):349-364, figs 1-7
- Bölsche W (1910) *Het Paard in Zijne Natuurlijke Ontwikkeling*, Bewerkt door B.C. Goudsmit. Zutphen (Original German from 1909)
- Bolau H (1900) Das Ende des Indischen Nashorns im Hamburger Zoologischen Garten. *Zoologische Garten* (AF) 41(11):334-336
- Bonal BS, Sharma R, Barthakur T, Barua B, Das DC, Boro S (1995) Birth of a female Indian rhino calf in Assam State Zoo. *Zoos' Print*, Coimbatore 10(9):28-29, 2 figs



Fig. 162. Male black rhinoceros in Tel Aviv (now Ramat Gan) in 1970.

- Bonannius P (1773) *Rerum naturalium historia*, vol 1. Rome
- Bosi EJ (1996) Mating Sumatran rhinoceros at Sepilok Rhino Breeding Centre, Sandakan, Sabah, Malaysia. *Pachyderm*, Nairobi 21:24-27, 1 fig
- Brachetka J (1947) *Schönbrunn und sein Tiergarten*. Vienna
- Brandes G (1935) *Dresden. Zoologische Garten* (NF) 8:171-172
- Brehm AE (1877) *Thierleben, allgemeine Kunde des Thierreichs. Große Ausgabe, 2. Umgearbeitete und vermehrte Auflage. Säugethiere*, vol 3. Leipzig
- Brentjes B (1969) Eine Darstellung des Bengalischen Javanashorns *Rhinoceros sondaicus inermis* Lesson, 1840. *Säugetierkundliche Mitteilungen* 17:209-211, figs 1-2
- Brentjes B (1973) Naturschutz und Tierparks im alten Orient. *Zoologische Garten* (NF) 43:248-255, figs 1-6
- Brentjes B (1978) Die Nashörner in den alten orientalischen und afrikanischen Kulturen. *Säugetierkundliche Mitteilungen* 26(2):150-160, figs 1-14
- Bridges W (1962) Two square-lipped rhinoceroses come to the zoo. *Animal Kingdom*, New York 65(5):146-150, 7 figs
- Brod WM (1958) 'Jungfer Clara'. *Mainfränkische Bilder* 59:2-3, figs 6-9
- Broom R (1946) The first white rhino in captivity. *Natural History* 55(9):432-433, 3 figs
- Brouard P (1978) Lisbon's unusual zoo guest: a 3-horn black rhino (*Diceros bicornis*). *International Zoo News* 25(2):12-13, 2 figs
- Bruggen AC van (1965) Waar komen onze breedlip-neushoorns vandaan? *Blijdorp Geluiden*, Rotterdam 13(9):2-3, 1 fig
- Buck F (1930) *Bring 'em Back Alive*. New York
- Buck F, Fraser W (1941) *All in a Lifetime*. New York
- Buckland CT (1889) Birth of a Rhinoceros at Calcutta. *Field*, 2 March 1889: 308 [summarized in *Zoologische Garten* (AF) 30(7):223 (1889)]
- Buckland F (1858) The wild beast show. *The Field, the Farm, the Garden* 12(309), 27 November 1858:436
- Buckland F (1870) Strange ice accident to the rhinoceros. *Land and Water*, December 31, 1870:484
- Buckland F (1872) A new rhinoceros at the Zoological Gardens. *Land and Water*, August 10, 1872:89
- Buckland F (1882) *Curiosities of Natural History*, 3rd edn. London
- Buechner HK, Mackler SF (1978) Breeding behavior in captive Indian rhinoceros. *Zoologische Garten* (NF) 48:305-322, figs 1-6
- Buechner HK, Stroman HR, Xanten WA (1975) Birth of an Indian rhinoceros, *Rhinoceros unicornis*, at the National Zoological Park, Washington. *International Zoo Yearbook* 15:160-165
- Buffon GL Leclerc de (1764) *Histoire Naturelle, Générale et Particulière, Avec la description du Cabinet du Roi*, vol 11. Paris
- Buffon GL Leclerc de (1778) Addition a l'article Rhinocéros. In: *Histoire Naturelle, Générale et Particulière, Servant de Suite a l'Histoire des Animaux Quadrupèdes*, new edn, Suppl IV, pp 133-135, pl 67. Amsterdam

- Buntaran L (1987) Preparation to breed the Sumatran rhinoceros in England. *Rimba Indonesia* 21(1):59-61
- Burne RH (1905) On the viscera of an Indian rhinoceros. *Proceedings of the Zoological Society of London* 1905:56-58
- Buyts D (1987) A summary of the introduction of white rhino onto private land in the Republic of South Africa. Report for the Rhino and Elephant Foundation
- Buyts D, Anderson J (1989) Disquiet was justified: white rhinos on private land in South Africa. *The Rhino & Elephant Journal* 2:26-31, 2 figs
- Camper P (1782) *Natuurkundige Verhandeling over den Orang Outang, en eenige andere Aapsoorten; over den Rhinoceros met den Dubbelen Horen; en over het Rendier*. Amsterdam
- Carnio J (1992) Zoo reports significant rhino birth. *AAZPA Communique*, April 1992
- Cave AJE (1985) An unrecorded specimen of the Javan rhinoceros (*Rhinoceros sondaicus*). *Journal of Zoology, London (A)* 207:527-535, pls I-IV, fig 1
- Cave AJE, Aumonier FJ (1962) Lymph node structure in the Sumatran rhinoceros. *Journal of the Royal Microscopical Society*, 81(2):73-77
- Cave AJE, Aumonier FJ (1963) The visceral histology of the Sumatran rhinoceros. *Journal of the Royal Microscopical Society* 82:29-37
- Chardin J (1711) *Voyage en Perse*. Amsterdam
- Cheminaud G (1939) *Mes Chasses au Laos: Les Bêtes Sauvages de l'Indochine*. Paris
- Chenu JC, Desmarest E [1858] *Encyclopédie d'Histoire Naturelle ou Traité Complet de Cette Science*, vol 4. Paris
- Chowdhury T (1966) A note on breeding Indian rhinoceroses at Gauhati Zoo. *International Zoo Yearbook* 6:197
- Christopher SA (1916) *Big Game Shooting in Lower Burma*. Rangoon
- Chijs JA van der (1889) *Dagh-Register gehouden int Casteel Batavia vant passerende daer ter plaetse als over geheel Nederlandts-India, anno 1661*. Batavia
- Cillie H (1949) *Zuluana die Witrenoster*. Pretoria
- Clarke TH (1974) The iconography of the rhinoceros, part II: The Leyden rhinoceros. *Connoisseur* 185(744):113-122, figs 1-23
- Clarke TH (1984) Two rhinoceros drawings re-attributed. *Burlington Magazine*, October 1984:625-629, figs 28-33
- Clarke TH (1986) *The Rhinoceros from Dürer to Stubbs, 1515-1799*. London
- Coenraad-Uhlig V (1933) Vom Gefangenleben eines jungen Nashorns. *Zoologische Garten (NF)* 6:114-116, figs 1-5
- Colls D, Descamps C, Faure M, Guérin C (1985) The bronze black rhinoceros from Port Vendres III. *Antiquity* 59:106-112, pl 17, fig 1
- Conklin G (1921) *The Ways of the Circus*. New York/London
- Coryat T (1616) *Traveller for the English Wits: Greetings*. Reprinted by William Foster (ed) 1921. Early travels in India 1583-1619. London
- Coryndon RT (1894) On the occurrence of the white or Burchell's rhinoceros in Mashonaland. *Proceedings of the Zoological Society of London*, 1894:329-334, pl 18
- Crandall LS (1964) *The Management of Wild Mammals in Captivity*. Chicago/London
- Crandall LS (1966) *A Zoo Man's Notebook*. Chicago/London
- Crotty M (1982) Indian rhinoceros born at Los Angeles Zoo. *AAZPA Newsletter* 23(4):20
- Croij, Duc de (1906) *Journal inédit 1718-1784*, vol 2. Paris
- Cuvier G (1804) *Le rhinocéros unicorne*, *Rhinoceros unicornis*. In: Lacépède, De la Ville BGE, Cuvier G (eds) *La Ménagerie du Muséum National d'Histoire Naturelle*, vol IX, pp 1-8, pl 33. Paris
- Das AK (1985) Birth of rhino calf in Alipore Zoological Garden. *Indian Zoo Bulletin* 4(1):13-14
- Dittrich L (1965) Geburt eines Spitzmaulnashorns im Zoo Hannover. *Freunde des Kölner Zoo* 8(3):90-92, 3 figs
- Dittrich L (1967) Breeding the black rhinoceros, *Diceros bicornis*, at Hanover Zoo. *International Zoo Yearbook* 7:161-162, fig 44
- Dittrich L (1971) Beobachtungen zur Jugendentwicklung eines Breitmaulnashorns (*Ceratotherium s. simum*) im Zoo Hannover. *Zeitschrift des Kölner Zoo* 14(2):73-81, figs 1-9
- Dittrich L (1972) Birth and growth of a male white rhinoceros *Ceratotherium simum* at Hanover Zoo. *International Zoo Yearbook* 12:122-125
- Dittrich L, Rieke-Müller A (1990) Ein Garten für Menschen und Tiere. Hannover
- Dixon A, MacNamara M (1981) Observations on the social interactions and development of sexual behaviour in three sub-adult, one-horned Indian rhinoceros (*Rhinoceros unicornis*) maintained in captivity. *Zoologische Garten (NF)* 51(1):65-70
- Dolan JM Jr, Killmar LE, Penny CG (1990) The mammal collection of the Zoological Society of San Diego, a historical perspective, Part IV: Orycteropodidae to Camelidae. *Zoologische Garten (NF)* 60: 93-132, figs 1-21
- Douliez H (1979) Planckendael en dierentuin ruilen neushoorns. *Zoo, Antwerpen* 44(4):140-142, 5 figs
- Douliez H (1986) Zoologische aanwinsten in het Domein Planckendael. *Zoo, Antwerpen* 51(3):30-31
- Dutta AK (1991) *Unicornis: the Great Indian One-Horned Rhinoceros*. Delhi
- Edwards G (1758) *Gleanings of Natural History*, vol 5. London
- Edwards J (1996a) London Zoo from old Photographs 1852-1914. London
- Edwards J (1996b) The value of old photographs. In: Hoage RJ, Deiss WA (eds) *New World, New Animals: From Menagerie to Zoological Park in the Nineteenth Century*, pp 141-150. Baltimore/London
- Ehrlinger D (1993) *The Cincinnati Zoo and Botanical Garden: from Past to Present*. Cincinnati
- Ellison BC (1922) H.R.H. The Prince of Wales' shoots in India in 1921 and 1922. *Journal of the Bombay Natural History Society* 28(3):675-697, 9 pls
- Emmerig H (1978) Das Rhinoceros in Europa 1741-1758 und seine Medaillen. *Money Trend* 10(5):20-25, 50-52
- Epstein L (1897) Schilderungen aus dem Zoologischen Garten zu Frankfurt a.M. *Zoologische Garten* 38(6):174-179
- Epstein L (1899) Ein Ausflug nach den zoologischen Gärten von Holland und Belgien. *Zoologische Garten* 40:5-14

- Eriksen E (1977) Birth of two white rhinoceroses (*Ceratotherium simum simum*) at the Copenhagen Zoo. *Zoologische Garten (NF)* 47(1):33-44, figs 1-8
- Ettinghausen R (1950) Studies in Muslim iconography, I: The unicorn. Freer Gallery of Art, Occasional Papers, Washington, 1(3):i-xii, 1-209
- Ezzat MA Elmoneim (1945) Helminth parasites of some ungulates from the Giza zoological gardens, Egypt. With an appendix on some nematodes from the African rhinoceros. *Bulletin Technical and Scientific Service (veterinary section), Ministry of Agriculture, Egypt* 241:i-vi, 1-104, pls 1-55
- Falkner M (1991) Talking with rhinos. *Friends of the Zoo, Virginia Zoological Society* 5(1):1-5
- Faust I (1978) Jungfer Clara im Ballhof. *Zoofreund, Hannover* 18:2-3, 4 figs
- Faust R (1958) Die Geburt eines Spitzmaulnashornes (*Diceros bicornis* L.) in Frankfurt. *Zoologische Garten (NF)* 22(3):208-214, figs 1-6
- Finlayson HH (1950) Notes on the cranial and dental characters of a specimen of *Rhinoceros sondaicus* Desm. *Proceedings of the Zoological Society of London* 120:151-154
- Fitzinger LJFJ (1860) *Wissenschaftlich-populäre Naturgeschichte der Säugethiere*, vol 3. Vienna
- Florio PL (1972) [Rhinoceros in Naples.] *International Zoo News* 19(1):31
- Flower SS (1900) On the Mammalia of Siam and the Malay Peninsula. *Proceedings of the Zoological Society of London* 1900:306-379, 1 fig
- Flower SS (1906) Report on a Mission to Europe, 1905. Cairo
- Flower SS (1908) Notes on Zoological Collections Visited in Europe, 1907. Cairo
- Flower SS (1914) Report on a Zoological Mission to India in 1913. Cairo
- Flower SS (1931) Contributions to our knowledge of the duration of animal life in vertebrate animals. V: Mammals. *Proceedings of the Zoological Society of London* 1931(1):145-234
- Flower WH (1886) On additions to the menagerie. *Proceedings of the Zoological Society of London* 1886:266-267
- Flower WH, Garson JG (1884) Catalogue of specimens ... contained in the Museum of the Royal College of Surgeons of England, vol 2. London
- Foose T (1987) Sumatran rhino born at Melaka Zoo in Malaysia. *AAZPA Newsletter* 28(9):22, 1 fig
- Foose T (1994a) International Studbook for Sumatran rhino (*Dicerorhinus sumatrensis*), 1 September 1994
- Foose T (1994b) International Studbook for Sumatran rhino (*Dicerorhinus sumatrensis*), 31 December 1994
- Foose T, Miller RE (1994) African rhinoceros populations in North America. In: Penzhorn BL, Kriek NRJ (eds) *Proceedings of a Symposium on Rhinos as Game Ranch animals, Onderstepoort, Republic of South Africa, 9-10 September 1994*, pp 31-34
- Foose T, Zainuddin ZZ (1991) International Studbook for Sumatran rhino (*Dicerorhinus sumatrensis*). Unpublished draft, 10 September 1991
- Forbes WA (1885) On the male generative organ of the Sumatran rhinoceros (*Ceratotherium sumatrensis*). *Transactions of the Zoological Society of London* 11:107-109, pl 20
- Francke R, Schwarzenberger F (1991) Trächtigkeitsdiagnose durch Steroidhormonanalyse aus Kotproben bei einem Spitzmaulnashorn (*Diceros bicornis*) im Zoologischen Garten Berlin. In: Klös and Frese 1991, pp 44-48, 4 figs
- Freiheit CF (1975) Rhinos for the future. *Zoo Review, Denver, Winter 1975*:4-5, 2 figs
- Frese R (1983) Protokoll einer Spitzmaulnashorngeburt. In: Klös and Frese 1983, pp 38-40
- Fryer J (1698) *A New Account of East-India and Persia*. London
- Furley C (1987) The death of Subur. *Help Newsletter, Friends of Howletts and Port Lympne* 9:43, 1 fig
- Furley C (1993a) The management, behaviour and health of rhinos at Port Lympne. In: Ryder 1993, pp 299-301
- Furley C (1993b) The clinical history of the adult female Sumatran rhinoceros, called 'Subur', in captivity in Sumatra and at Port Lympne Zoo, Kent, Great Britain. In: Ryder 1993, pp 357-366
- Gandillon R (1980) *Salimbanques et comédiens au foires de Reims. Mémoires de la Société d'Agriculture, Commerce, Sciences et Arts de la Marne* 95:121-165
- Garrod AH (1873) On the visceral anatomy of the Sumatran rhinoceros (*Ceratotherium sumatrensis*). *Proceedings of the Zoological Society of London*, 21 January 1873:92-104
- Garrod AH (1877) On some points in the visceral anatomy of the rhinoceros of the Sunderbunds (*Rhinoceros sondaicus*). *Proceedings of the Zoological Society of London* 1877:707-711, figs 1-3
- Gee EP (1952) Catching a bride for 'Mohan'. *Zoo Life* 7(3):102-105, 7 figs
- Gens E (1861) *Promenade au Jardin Zoologique d'Anvers*. Antwerpen
- Geoffroy St Hilaire E, Cuvier F [1820]. *Le rhinocéros unicolore mâle*. In: *Histoire Naturelle des Mammifères*, vol 6, pp 1-3, pls 1-2. Paris
- Gervais FLP, Gervais HFP (1875) Structure de l'intestin grêle chez le rhinocéros. *Journal de Zoologie* 4:465-474, pls 11-12
- Gewalt W (1972) Africanum, a new exhibit for African steppe wildlife at Duisburg Zoo. *International Zoo Yearbook* 12:86-88, 2 figs
- Giese U (1962) *Wiener Menagerien*. Vienna
- Gleiss HGW (1967) Unter Robben, Gnus und Tigerschlängen: Chronik des Zoologischen Gartens Breslau 1865-1965. Wedel
- Gmelin S [G] (1767) Waarneeming over den Rhinoceros of Neushoorn. *Verhandelingen Hollandsche Maatschappij voor Wetenschappen te Haarlem* 9:632-636
- Gölsenboth R (1986) Zur tierärztlichen Betreuung der Nashörner im Zoo Berlin. *Zoologische Garten (NF)* 56(1):43-52, figs 1-4
- Gölsenboth R (1995) International Studbook for African Rhinoceroses, 6th edn: *Diceros bicornis*, 30.11.1995. Berlin, Zoologischer Garten
- Gölsenboth R (1997) International Studbook for African rhinoceroses, 7th edn: *Diceros bicornis*, 31.12.1996. Berlin, Zoologischer Garten
- Goens R van (1995) Javaanse Reyse: de bezoeken van een VOC-gezant aan het hof van Mataram 1648-1654, De Wever D (ed). Amsterdam
- Gouveia A de Mello (1969) Black rhinoceros born. *International Zoo News* 16(2):48
- Gowers W (1950) The classical rhinoceros. *Antiquity* 24:61-71, figs 1-6

- Graaff N de (1701) *Reisen na de vier gedeelten des werelds*. Edited in *Works of the Linschooten-Vereeniging*, vol 33 (1930). The Hague
- Granier N (1995) White rhinos to Kenya. *Swara*, Nairobi 18(3):10-12, 3 figs
- Greed GR (1967) Notes on the breeding of the black rhinoceros *Diceros bicornis* at Bristol Zoo. *International Zoo Yearbook* 7:158-161
- Greeley ML (1989) Lady in red. *Zoonooz*, San Diego 62(4):11
- Gregory ME, Rowland SS, Thompson SY, Kon VM (1965) Changes during lactation in the composition of the milk of the African black rhinoceros (*Diceros bicornis*). *Proceedings of the Zoological Society of London* 145:327-333, figs 1-2
- Griffith E (1827) *The Animal Kingdom Arranged in Conformity with its Organization by the Baron Cuvier*, vol 3. London
- Groves CP (1967) Geographic variation in the black rhinoceros *Diceros bicornis* (L., 1758). *Zeitschrift für Säugetierkunde* 32(5):267-276
- Groves CP (1971) Species characters in rhinoceros horns. *Zeitschrift für Säugetierkunde* 36:238-252, figs 1-19
- Groves CP (1982) The skulls of Asian rhinoceroses: wild and captive. *Zoo Biology* 1:251-261
- Groves CP (1993) Testing rhinoceros subspecies by multivariate analysis. In: Ryder 1993, pp 92-100
- Groves CP, Chakraborty S (1983) The Calcutta collection of Asian rhinoceros. *Records of the Zoological Survey of India* 80:251-263
- Grünberg W, Burtcher H (1968) Über eine pockenartige Krankheit beim Rhinoceros (*Diceros bicornis* L.). *Zentralblatt für Veterinärmedizin (B)* 15:649-657, figs 1-8
- Grzimek B (1957) Die Zusammensetzung der Nashornmilch. *Milchwissenschaft* 12(6):231
- Grzimek B (1958) Die gegenwärtige Zahl der Nashörner auf der Erde. *Säugetierkundliche Mitteilungen* 6(3):117-120
- Grzimek B (1960) Die gegenwärtige Zahl der Nashörner auf der Erde (II). *Säugetierkundliche Mitteilungen* 8:21-25, figs 1-2
- Guggisberg CAW (1966) *S.O.S. Rhino*. London
- Gijzen A (1960) Liste des mammifères ayant figuré ou figurant dans les collections du Jardin Zoologique de la Société Royale de Zoologie d'Anvers. *Bulletins de la Société Royale de Zoologie d'Anvers* 16:1-18
- Haeßlin J, Nogge G (1985) *Des Kölner Zoo*. Cologne
- Hagenbeck C (1908) *Von Tieren und Menschen, Erlebnisse und Erfahrungen*. Berlin-Charlottenburg
- Hagenbeck C (1914) [1908] *Von Tieren und Menschen, Erlebnisse und Erfahrungen*. Berlin-Charlottenburg, Vita (Geschenk-Ausgabe), 449 pp
- Hagenbeck D (1966) Report on the hand-rearing of an Indian rhinoceros *Rhinoceros unicornis* at Hamburg Zoo. *International Zoo Yearbook* 6:82-87
- Hall-Martin AJ (1984) Kenya's black rhinos in Addo, South Africa. *African Elephant & Rhino Group Newsletter* 3:11, 1 fig
- Hall-Martin AJ, Penzhorn BL (1977) Behaviour and recruitment of translocated black rhinoceros *Diceros bicornis*. *Koedoe* 20:147-162
- Hallstrom E (1967) Notes on breeding the black rhinoceros *Diceros bicornis* at Sydney Zoo. *International Zoo Yearbook* 7:165
- Hamerton AE (1939) Review of mortality rates and

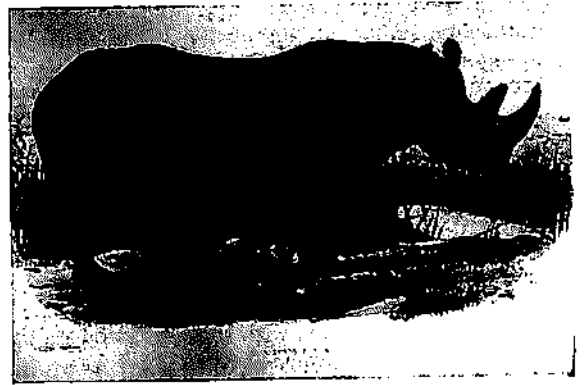


Fig. 163. Male black rhinoceros in London, 1868-1894, painted by J. Wolf.

- report on the deaths occurring in the Society's gardens during the year 1938. *Proceedings of the Zoological Society of London (B)* 109:281-327
- Hamerton AE (1943) Report on the deaths occurring in the Society's gardens during the year 1941. *Proceedings of the Zoological Society of London (B)* 112:120-136
- Hanscom T (1987) Black rhino born at the San Diego Wild Animal Park. *AAZPA Newsletter* 28(9):22
- Hayashi Z (1963) Indian rhinoceros 'King of Tama' in Tama zoological park. [In Japanese] *Animals and Zoo*, Tokyo 11(2):6-7, 1 fig
- Hays HR (1967) Notes on breeding black rhinoceroses *Diceros bicornis* at Pittsburgh Zoo. *International Zoo Yearbook* 7:164-165
- Heber R (1827) *Narrative of a journey through the upper provinces of India, from Calcutta to Bombay, 1824-1825*, 3 volumes. London
- Heck L [1896] *Das Tierreich: Allgemeine Einleitung: Säugetiere*. Neudamm
- Heck L [1899] *Lebende Bilder aus dem Reiche der Tiere: Augenblicksaufnahmen nach dem lebenden Tierbestände des Berliner Zoologischen Gartens*. Berlin
- Heck L (1930) *Aus der Wildnis in den Zoo: auf Tierfang in Ostafrika*. Berlin
- Heckly L (1963) Nouveaux locataires au Parc Zoologique. *Le Figaro* 28 Mai 1963, p 4
- Hediger H [1955] *Neue exotische Freunde im Zoo*. Basel
- Hediger H (1970) Ein Nashorn mit Dürer-Hornlein. *Zoologische Garten (NF)* 39:101-106, figs 1-6
- Heikamp D (1980) Seltene Nashörner in Martin Sperlich's Nashorngalerie und anderswo. In: *Festschrift für Martin Sperlich*, pp 301-325, figs 1-26. Tübingen
- Hernandez M (1994) Rinoceronto blanco *Ceratotherium simum* s. La Voz del Zoologico, Guadalajara 6(1):1, 1 fig
- Herrmann VM, Miller RE (1991) Total parenteral nutrition in a premature rhinoceros calf. *Nutrition in Clinical Practice* 6:193-196, figs 1-5
- Hill CWO (1958) Abnormal site of horn-growth in *Rhinoceros unicornis* Linn. *Journal of the Bombay Natural History Society* 55(3):553-554, 1 fig
- Hoadley MC, Svanberg I (1991) Hunting rhinoceros in Java: Johan Arnold Stützer and his journal 1786-1787. *Svenska Linné-Sällskapets Arsskrift*, Upsala 1990/91:91-143, 7 figs

References

- Hodgson BH (1825) Remarks on the procreation of the rhinoceros. *Orient Mag* 3(5):155-156
- Hodgson BH (1826) Remarks on the rate of growth and habits of the Rhinoceros Indicus. *The Asiatic Journal* 22:193-197
- Hodgson BH (1834) On the mammals of Nepal. *Proceedings of the Zoological Society of London* 1834:95-104
- Hood FH (1869) The Sumatran rhinoceros. *Oriental Sporting Magazine* 2(15):167-169, 1 pl
- Hopwood AT (1939) The subspecies of the black rhinoceros, *Diceros bicornis* (Linnaeus), defined by the proportions of the skull. *Journal of the Linnean Society of London, Zoology* 40:447-457, pls 10-11
- Hornaday WT (1918) *Popular Official Guide to the New York Zoological Park*. New York
- Horsfield T (1823) *Zoological researches in Java, and the neighbouring islands*. London [Part 6 published in June 1823]
- Hosoda T (1991) Tama's Indian rhinoceros Lanny falls sick [In Japanese]. *Animals and Zoo* [?] July 1991:246-249
- Hubback TR (1939) The two-horned Asiatic rhinoceros (*Dicerorhinus sumatrensis*). *Journal of the Bombay Natural History Society* 40(4):594-617, pls 1-8
- Hufnagel E (1873) Rhinoceros in Europa ausgestellt. *Zoologische Garten* 14(5):197-198
- Iles G (1960) *At home in the Zoo*. London
- Jacobaeus O (1696) *Museum Regium. Hafniae*
- Jacquemont V (1841) *Voyage dans l'Inde pendant les années 1828 à 1832: Journal*, vol 1. Paris
- Jamrach W (1875) On a new species of Indian rhinoceros. [3 pp, no place, no publisher]
- Jardine W (1843) *The Naturalist's Library*, vol 13: *Pachydermes*. Edinburgh
- Jarofke D (1983) Milchzusammensetzung beim Spitzmaulnashorn (*Diceros bicornis*). *Bongo, Berlin* 7:111-112
- Jarvis C (1966) Zoos in China. *Animals* 8(17):450-455
- Jennison G (1928) *Noah's Cargo: Some Curious Chapters of Natural History*. London
- Jennison G (1937) *Animals for Show and Pleasure in Ancient Rome*. Manchester
- Jha AK, Singh JN, Sinha PR, Quasin A (1987) Rhinoceros: Sanjay Gandhi Biological Park, Patna. *Zoos' Print, Coimbatore* 2(9):5-6
- Johnston N (1990) Sumatran rhino. *AAZPA Communique*, February 1990:4
- Jones DM (1979) The husbandry and veterinary care of captive rhinoceroses. *International Zoo Yearbook* 19:239-252
- Jones M (1991) "And then there were none": saving the rhino. *Zoonooz, San Diego* 64(5):6-12, 8 figs
- Jones M (1993) Longevity of ungulates in captivity. *International Zoo Yearbook* 32:159-169
- Jorgensen B (1986) A visit by Douwe Mout's rhinoceros to Copenhagen. *Zoologische Garten (NF)* 56(4/5):385-386, 1 fig
- Joseph S (1989) The rhino: final episode or new chapter? *Zoonooz, San Diego* 62(4):4-9
- Kabokoff B (1991) White rhinoceros born at Memphis Zoo. *AAZPA Communique* May 1991:18
- Kagan D (1984) Whoopie ti-yi-yay, get along li'l rhino. *Science* 1984 ?
- Kanpur Zoo (1993) *First Indian National Studbook for Indian Rhinoceros, Rhinoceros unicornis*, November, 1993, by the Allen Forest Zoo, Kanpur with technical assistance from Zoo Outreach Organisation. Coimbatore ZOO
- Kearney Y, Vyvyan J (1965) *Rufus the Rhino*. London
- Keeling C (1983) *The Life and Death of Belle Vue*. Guildford
- Keeling C (1984) *Where the Lion Trod*. Guildford
- Keeling C (1985) *Where the Crane Danced*. Guildford
- Keeling C (1993) *Where the Macaw Preened*. Guildford
- Keeling C (1994) Clues from a skull. *The Bartlett Society, Journal* 5:8-10, 1 fig
- Keeling C (1995a) *Where the Penguin Plunged*. Guildford
- Keeling C (1995b) *Wonderful Year*. Guildford
- Keeling C (1997) *Manders' Royal Menagerie*. The Bartlett Society, Newsletter March 1997:[4-5]
- Kelham M (1956) Report from Regent's Park. *Zoo Life, London* 10(4):121-126, 5 figs
- Keyser M (1976) Komt dat zien! De Amsterdamse Kermis in de Negentiende Eeuw. Amsterdam
- Khan Mir Gowher A, Choudhury BC (1987) Breeding of Indian rhinoceros (*Rhinoceros unicornis*) in Nehru Zoological Park, Hyderabad. *Zoos' Print, Coimbatore* 2(4/5):13-15, 1 fig
- Kiechel S (1866) *Die Reisen, aus drei Handschriften herausgegeben von Dr. K.D. Haszler*. Stuttgart
- Kinloch AAA (1892) *Large game shooting in Thibet, the Himalayas, Northern & Central India*. London
- Kinsey FM (1990) Denver zoo reports significant birth. *AAZPA Communique*, January 1990:20
- Klein IT (1760) *Natürliche Ordnung und vermehrte Historie der vierfüssigen Thiere*. Danzig
- Klimek K (1971) Black rhino born. *International Zoo News* 18(1):17
- Klöß H-G (1959) Das neue Panzernashorn im Zoologischen Garten Berlin. *Freunde des Kölner Zoo* 2(3):25, 2 figs
- Klöß H-G (1969) Von der Menagerie zum Tierparadis: 125 Jahre Zoo Berlin. Berlin
- Klöß H-G (1976) Births of Indian rhinoceros in the West Berlin Zoo. *International Zoo News* 23(4):42
- Klöß H-G (1987) Sumatra-Nashörner. *Bongo, Berlin* 12:23-28, 4 figs
- Klöß H-G, Frädrich H (1970) Ein Überblick über die in Zoologischen Gärten gehaltenen Afrikanischen Nashörner. *Zoologische Garten (NF)* 38:227-245, figs 1-5
- Klöß H-G, Frädrich H (1971) Veränderungen im Bestand Afrikanischen Nashörner in zoologischen Gärten. *Zoologische Garten (NF)* 41(1/2):49-55
- Klöß H-G, Frese R (1977) Zuchtbücher für Breitmaul- (*Ceratotherium simum*) und Spitzmaulnashörner (*Diceros bicornis*). 31.12.1975. *Bongo, Berlin* 1:70, i-viii
- Klöß H-G, Frese R (1978) Population trends in African rhinoceroses *Diceros bicornis* and *Ceratotherium simum* living in zoos and safariparks. *International Zoo Yearbook* 18:231-234, figs 1-3
- Klöß H-G, Frese R (1981a) *International studbook of the black rhinoceros*. Berlin, Zoologischer Garten
- Klöß H-G, Frese R (1981b) *International studbook of the square-lipped rhinoceros*. Berlin, Zoologischer Garten
- Klöß H-G, Frese R (1983) *International studbook of African rhinoceroses*, No. 2. Berlin, Zoologischer Garten
- Klöß H-G, Frese R (1987) *International studbook of*

- African rhinoceroses, No. 3. Berlin, Zoologischer Garten
- Klös H-G, Frese R (1991) International studbook of African rhinoceroses (*Diceros bicornis*/Ceratomyx simum), No. 4. Berlin, Zoologischer Garten
- Klös H-G, Frese R (1993) International studbook of African rhinoceroses (*Diceros bicornis*/Ceratomyx simum), No. 5. Berlin, Zoologischer Garten
- Klös H-G, Frädrich H, Klös U (1994) Die Arche Noah an der Spree: 150 Jahre Zoologischer Garten Berlin. Eine tiergärtnerische Kulturgeschichte von 1884-1994. Berlin
- Klös H-G, Klös U (1990) Der Berliner Zoo im Spiegel seiner Bauten 1841-1989: eine baugeschichtliche und denkmalpflegerische Dokumentation über den Zoologischen Garten Berlin. Berlin
- Knauer FK (1914) Der Zoologische Garten: Entwicklungsgang, Anlage und Betrieb unserer Tiergärten und deren Erziehliche, Belehrende und Wissenschaftlichen Aufgaben. Leipzig
- Knighton W (1833/1834) The Private Life of an Eastern King together with Elihu Jan's Story or the Private Life of an Eastern Queen. London
- Knottnerus-Meyer T (1902) Der Zoologische Garten zu Antwerpen. Zoologische Garten 43(6):177-187
- Knottnerus-Meyer T (1905) Neues vom Zoologischen Garten zu Berlin. Zoologische Garten 46(4):109-115
- Köhle A (1981) Aus der Geschichte des Kölner Zoo: bemerkenswerte Säugetiere des Tierbestandes. Zeitschrift des Kölner Zoo 24(3):103-106, 5 figs
- Kourist W (1969) Historische Zootier-Fotos. Zoologische Beiträge (NF) 15(2/3):465-473, figs 1-10
- Kourist W (1970) Die ersten einhornigen Nashörner (*Rhinoceros sondaicus* Desmarest, 1822 und *Rhinoceros unicornis* L., 1758) der großen europäischen zoologischen Gärten in der Malerei des 19. Jahrhunderts. Zoologische Beiträge (NF) 16(1):141-154, figs 1-13
- Kourist W (1973) Die ersten zweihörnigen Nashörner, die Tapire und Wale in den Zoologischen Gärten und anderen Tiersammlungen. Zoologische Beiträge (NF) 19(1):137-150, figs 1-8
- Kourist W (1974) Nachtrag zu Teil I und Teil II von 'Frühe Haltung von Großsäugetieren'. Zoologische Beiträge (NF) 20(3):543-546, figs 1-3
- Kourist W (1976) 400 Jahre Zoo: im Spiegel der Sammlung. Cologne
- Krauß F (1851) Die Säugethiere nach Familien und Gattungen. Stuttgart
- Kreag KK (1966) Hand-rearing a black rhinoceros *Diceros bicornis* at Detroit Zoo. International Zoo Yearbook 6:87-88
- Krishne Gowda CD (1967) Breeding the black rhinoceros *Diceros bicornis* at Mysore Zoo. International Zoo Yearbook 7:163-164
- Krishne Gowda CD (1975) Plans for breedings colonies of large mammals in India. In: Martin RD (ed) Breeding Endangered Species in Captivity, pp 309-313, figs 1-2. London
- Krishne Gowda CD (1985) Breeding large mammals in captivity. Zoos' Print, Coimbatore 1(3):5-7, 6 figs
- Krishne Gowda CD (1990) Breeding and management of African black rhinoceros at Mysore Zoo. Zoos' Print, Coimbatore 5(3):22-23
- Krumbiegel I (1960) Die asiatischen Nashörner (*Dicerorhinus Gloger* und *Rhinoceros Linné*). Säugetierkundliche Mitteilungen 8:12-20, figs 1-3
- Krumbiegel I (1965) Das Kopenhagener Sumatranashorn, *Didermoceros sumatrensis* (Fischer, 1814). Säugetierkundliche Mitteilungen 13(3):97-100, figs 1-6
- Kuckelkorn B, Dathe HH (1990) Trächtigkeitsdiagnose beim Panzernashorn (*Rhinoceros unicornis*) anhand von Progesteronbestimmungen im Speichel. Zoologische Garten (NF) 60(6):333-340, figs 1-3
- Küng K (1978) The preparation of an Indian rhinoceros in the Museum of Natural History in Berne (Switzerland). Jahrbuch des Naturhistorischen Museum der Stadt Bern 6:125-131, figs 1-6
- Lacroix J-B (1977) L'approvisionnement des ménageries et les transport d'animaux sauvages par la Compagnie des Indes au XVIIIe siècle. Revue Française d'Histoire d'Outre-Mer 65:164-170
- Lamare-Picquot F (1835) Réponse pour servir de réfutation aux opinions et à de M. Constant Dumeril, sur mon memoire concernant les Ophidiens ..., suivie d'une relation de chasse dans les fles des bouches du Gange. Paris
- Lang EM (1957) Geburt eines Panzernashorns, *Rhinoceros unicornis*, im Zoologischen Garten Basel. Säugetierkundliche Mitteilungen 5(2):69-70, 1 fig
- Lang EM (1958) Panzernashörner im Tiergarten. Zolli, Basel No 1
- Lang EM (1959) Ein Sumatra-Nashorn im Basler Zoo. Säugetierkundliche Mitteilungen 7(4):177, 1 fig
- Lang EM (1961) Beobachtungen am Indischen Panzernashorn (*Rhinoceros unicornis*). Zoologische Garten (NF) 25(6):369-409, figs 1-24
- Lang EM (1964) Wieder ein junges Panzernashorn. Zolli, Basel No 13:4-5, 1 fig
- Lang EM (1965) Arjun. Zolli, Basel No 15:11-12, 2 figs
- Lang EM (1966) Krankheit und Tod des Panzernashornbullen Gadadhar. Proceedings of the International Symposium of Zoo animal diseases 8:301-307
- Lang EM (1967) Einige biologische Daten vom Panzernashorn (*Rhinoceros unicornis*). Revue Suisse de Zoologie 74(3):603-607
- Lang EM (1975) The Indian rhino in captivity. In: Martin RD (ed) Breeding Endangered Species in Captivity, pp 293-302, figs 1-4. London
- Lang EM (1994) Mit Tieren Unterwegs: aus dem Reisebuch eines Zoodirektors. Birsfelden
- Lang EM, Leutenegger M, Tobler K (1977) Indian rhinoceros *Rhinoceros unicornis* births in captivity. International Zoo Yearbook 17:237-238
- Lappa K (1991) Black rhino born at Brookfield Zoo. AAZPA Communique May 1991:18
- Laufer B (1914) History of the rhinoceros. In: Laufer, Chinese Clay Figures, Part I, pp 73-173. Publications, Field Museum of Natural History, Anthropological Series 13(2):73-315
- Leifer C (1989) Rhino birth first at Lincoln Park Zoo. AAZPA Newsletter September 1989:19, 1 fig
- Lindemann H (1982) African rhinoceroses in captivity. University of Copenhagen, unpublished thesis
- Lindemann H (1984) Demographic survey of the black rhinoceros *Diceros bicornis* in captivity. International Zoo Yearbook 23:225-233, figs 1-7
- Loch CW (1937) *Rhinoceros sondaicus*, the Javan or lesser one-horned rhinoceros and its geographical distribution. Journal of the Malayan Branch of the Royal Asiatic Society 15(2):130-149, pls 3-4
- Loisel G (1912) Histoire des ménageries de l'anti-

- quité à nos jours. 3 volumes. Paris
- Lombardi A (1973) Safari on Lake Garda, Italy. *International Zoo News* 20(5):184-185
- Losty JP (1990) Calcutta, City of Palaces: A Survey of the City in the Days of the East India Company 1690-1858. London
- Ludwig KS, Müller E (1965) Zur Histochemie der Plazenta des Panzernashorns (*Rhinoceros unicornis* L.). *Verhandlungen der Anatomischen Gesellschaft, Ergänzungsheft Anatomischer Anzeiger* 115:155-159, figs 1-3
- Ludwig KS, Villiger W (1965) Zur Ultrastruktur der Blattotheneptithelien in der Plazenta des Indischen Panzernashorns (*Rhinoceros unicornis* L.). *Acta anatomica* 62:593-605, figs 1-10
- Lukin A (1883) Zoologischer Garten in St Petersburg: Verzeichnis des Tierbestandes am 1 September 1882. *Zoologische Garten* 24:279-281
- Lydekker R (1909) Oriental big game notes. *Field* 113:923
- McCulloch B, Jonathan J, Dunnett SC (1969) Further report on the development of Saanane Island, and its role in wildlife conservation in East Africa. *International Zoo Yearbook* 9:139-142
- McLaughlin E (1990) Fort Worth zoological association receives greater one-horned rhino pair. *AAZPA Communiqué*, August 1990:19, 1 fig
- Mackler SF, Buechner HK (1978) Play behavior and mother-young relationships in captive Indian rhinoceroses (*Rhinoceros unicornis*). *Zoologische Garten (NF)* 48(2/3):177-186, figs 1-3
- Maes J [1910] *Le Jardin Zoologique d'Anvers: Album-guide illustré*. Antwerp
- Manan S, Sutarman, Sudhono (1987) On the efforts to breed the Sumatran rhino (*Dicerorhinus sumatrensis*) in captivity in Indonesia. *Rimba Indonesia* 21(1):48-55
- Manton VJA (1983) Haltung des südlichen Breitmaulnashorns (*Ceratotherium simum simum*) in Whipnade. Bongo, Berlin 7:33-42, 5 figs.
- Martens G von (1850) Die Menagerien in Stuttgart. *Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg* 6:85-123
- Martin EB (1993) The present-day trade routes and markets for rhinoceros products. In: Ryder 1993, pp 1-9
- Martin EB, Martin C (1982) Run Rhino Run. London
- Marx E, Koch A (1910) Neues aus der Schausammlung: das Indische Nashorn. Bericht der Senckenbergischen Naturforschenden Gesellschaft in Frankfurt am Main 41(3):161-171, figs 1-7
- Mayer C (1922) Trapping Wild Animals in Malay Jungles. London
- Meckvichai C (1987) On the status of the Sumatran rhino in captivity in Thailand. *Rimba Indonesia* 21(1):57-58
- Medway, Lord (1972) Subur's sister? *Animals* 14(3):141, 2 figs
- Meinertz T (1972a) Eine topographische Untersuchung über die Facialismuskeln beim Nashorn, *Diceros bicornis* (L.). *Gegenbauers Morphologisches Jahrbuch* 118(2):206-227, figs 1-17
- Meinertz T (1972b) Eine Untersuchung über die Niere des spitzschnauzigen Nashorns, *Diceros bicornis* L., sowie Bemerkungen über die Niere einzelner anderer Säugetiere. *Gegenbauers Morphologisches Jahrbuch* 117(4):531-542, figs 1-13
- Meinertz T (1974) Eine Untersuchung über die Niere des Sumatranashorns (*Dicerorhinus sumatrensis* Cuv.). *Gegenbauers Morphologisches Jahrbuch* 120:697-735, figs 1-29
- Mentzel OF [1787] (1944) A Geographical and Topographical Description of the Cape of Good Hope, vol 3. Cape Town (Works Van Riebeeck Society, vol 25)
- Merklein JJ [1672] (1930) Reise nach Java, Vorder- und Hinter-Indien, China und Japan 1644-1653. Haag
- Merz A (1991) Rhino, at the Brink of Extinction. London
- Metzler A (1981) Indian rhino watch. *Zooncoz*, San Diego 54(1):14-15, 3 figs
- Meyer-Holzappel M (1970) Erstmalige Dressur eines Breitmaulnashorns (*Ceratotherium s. simum* [Burch]) im Schweizer Nationalzirkus Knie. *Zoologische Garten (NF)* 39:210-224, figs 1-13
- Meyer-Holzappel M (1985) Tiger als Reiter auf Pferd, Nashorn und Elefant: Analyse von Dressuren im Schweizer Nationalzirkus Knie. *Zoologische Garten (NF)* 55(5/6):301-326, figs 1-16
- Mikulica V (1986) Sozialverhalten der Breitmaulnashörner (*Ceratotherium simum*) in der Gefangenschaft. *Wiss Zeitschrift der Humboldt-Universität zu Berlin, Math-Nat R* 35(3):296-300
- Mikulica V (1991) Social behaviour in two captive groups of white rhinoceros (*Ceratotherium simum simum* and *Ceratotherium simum cottoni*). *Zoologische Garten (NF)* 61(5/6):365-385, figs 1-7
- Miller JL (1967) An Indian zoo breeds an African rhinoceros. *Animal Kingdom* 70(1):26-27,31, 5 figs
- Miller RE [1990?] *Veterinary Bibliography for Rhinoceroses*. Saint Louis Zoological Park, 55 pp
- Mishra PC (1994) Manual delivery of a captive Indian rhinoceros calf (*Rhinoceros unicornis*) at Sanjay Gandhi Biological Park, Patna. *Zoos' Print*, Coimbatore 9(9):1-2, 3 figs
- Mishra PC, Jha AK (1993) Breeding of rhinoceros (*Rhinoceros unicornis*) in Sanjay Gandhi Biological Park, Patna. *Zoos' Print*, Coimbatore 8(6):5
- Mitchell PC (1911) Strauß und Rhinoceros im Hagenbeckschen Tiergarten. *Zoologische Garten* 52:219-220
- Mohr E (1957) Das Horn des Indischen Rhinoceros unicornis. *Zoologische Garten (NF)* 23(1/3):37-45, figs 1-8
- Moiser C (1990) Advertisement-1838. *Journal of the Zoological Society of Greater Manchester* 11(40):14-15
- Moiser C (1994) Wombwell's Menagerie. *The Bartlett Society, Journal* 5:30-32
- Müller CC (1987) Sumatranashörner, *Dicerorhinus sumatrensis* (Fischer, 1814), in Malakka. *Zoologische Garten (NF)* 58(5/6):411-413, figs 1-2
- Murray M (1956) *Circus! From Rome to Ringling*. New York
- Nandi SH, Kumar Deb S (1972) Horn cancer in rhinoceros. *Indian Veterinary Journal* 49(9):881-882
- Nardelli F (1985) The Sumatran rhinoceros project. *Help Newsletter, Friends of Howletts and Port Lympne* 7:4-8
- Nardelli F (1986) The Sumatran rhino project. *Help Newsletter, Friends of Howletts and Port Lympne* 8:20-23
- Nardelli F (1987a) The conservation of the Sumatran rhinoceros (*Dicerorhinus sumatrensis*): a situation

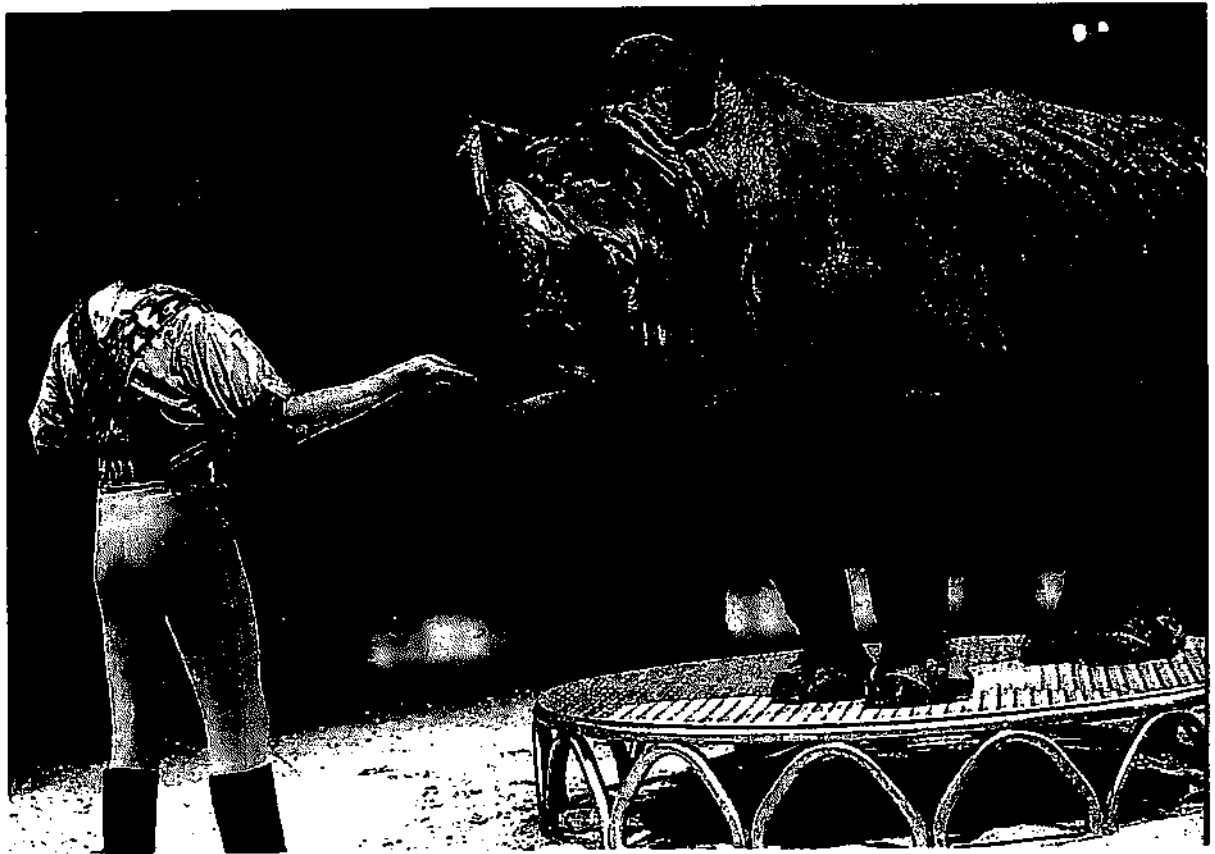


Fig. 164. White rhinoceros at Circus Siemoneit-Barum, Einbeck in 1993.

- report and proposal for future directions. *Rimba Indonesia* 21(1):31-37
- Nardelli F (1987b) The conservation of the Javan rhinoceros (*Rhinoceros sondaicus* Desm.), a proposal. *Rimba Indonesia* 21(1):64-66
- Nardelli F (1987c) "So near and yet so far ...": a report on the Sumatran rhinoceros captive breeding and conservation operation. *Help Newsletter, Friends of Howletts and Port Lympne* 9:38-42, 1 fig
- Neugebauer W (1993) Die Wilhelma, ein Paradies in der Stadt. Stuttgart
- Neuschulz N (1988) Noch ein Spitzmaulnashorn mit drei Hörnern. *Felis* 6:86-88, figs 1-2
- Neuschulz N, Puschmann W (1986) Verlust und Neubildung des Vorderhornes beim Spitzmaulnashorn (*Diceros bicornis*). *Felis* 4:51-55, figs 1-4 (on p 47)
- Newman E (1872) Arrival of a Sumatran rhinoceros at the Zoological Gardens. *Zoologist* (2)7:3057-3060
- Nieuwendijk JG (1970) Zoo was Artis - zo is Artis. Amsterdam
- Noack Th (1886) Über das zottelohrige Nashorn (*Rhinoceros lasiotis*). *Zoologische Garten* 27:138-144, 1 fig
- Nieuwendijk JG (1889) Beiträge zur Kenntnis der Säugethierfauna von Süd- und Südwest-Afrika. *Zoologische Jahrbücher, Abt Systematik* 4:94-261, pls 1-4
- Nogge G (1987) Jahresbericht 1986 der Aktiengesellschaft Zoologischer Garten Köln. *Zeitschrift des Kölner Zoo* 30(1):3-26
- Noll FC (1873) Die Rhinoceros-Arten. *Zoologische Garten* 14:47-55, 81-87, 138-144, 5 figs
- Noll FC (1889) Die zoologischen Gärten in Kalkutta und Bombay. *Zoologische Garten* 30:62-63
- Ochs A (1995) International Studbook for African Rhinoceroses, 6th edn: *Ceratotherium simum*, 30.11.1995. Berlin, Zoologischer Garten
- Ochs A (1997) International Studbook for African Rhinoceroses, 7th edn: *Ceratotherium simum*, 31.12.1996. Berlin, Zoologischer Garten
- O'Connor SM (1986) Activity cycles of the southern white rhinoceros *Ceratotherium s. simum* in captivity: implications for management. *International Zoo Yearbook* 24/25:297-303
- O'Hara GM (1907) Trapping of rhinoceros in the Dindings, Straits Settlements. *Indian Forester* 33:383-388
- Opperman J (1994) Tod und Wiedergeburt. Über das Schicksal einiger Berliner Zootiere. Bongo, Berlin 24:51-84, 24 figs
- O'Ryan C, Flamand JRB, Harley EH (1994) Mitochondrial DNA variation in black rhinoceros (*Diceros bicornis*): conservation management implications. *Zoo Biology* 8(2):495-500
- Owen R (1862) On the anatomy of the Indian rhinoceros (*Rh. unicornis*, L.). *Transactions of the Zoological Society of London* 42(2):31-58, pls 11-22
- Owen RS (1894) The Life of Richard Owen, 2 volumes. London
- Parsons J (1743) A letter containing the natural history of the rhinoceros. *Philosophical Transactions of the Royal Society* 42(470):523-541, pls 1-3
- Pasteur JD (1793) *Beknopte Natuurlijke Historie der Zoogende Dieren*, vol 1. Leiden

- Pearson H, Gibbs C, Wright AI (1967) Surgical treatment of a case of rectal prolapse in a young African rhinoceros (*Diceros bicornis*). *Veterinary Record* 80:519
- Peel CVA (1903) *The Zoological Gardens of Europe: Their History and Chief Features*. London
- Percival G, Tomlinson K, Barnaby D (1989) *The Wombwell Menagerie Log Book*. Manchester
- Petis de la Croix F (1723) *Histoire de Timur-Bec*, vol 3. Delft
- Petzsch H (1935) Das erste Indische Nashorn in Deutschland. *Aus der Heimat*, 3(2):50-53, figs 1-5
- Pitman D (1991) Rhinos: past, present - and future? Harare
- Player IC (1972) *The White Rhino Saga*. London
- Pocock RI (1912) Death of two rhinoceroses; measurements of Indian rhinoceros; some characters of rhinoceroses. *Field* 119:143, 5 figs
- Potter D (1994) Update on the current situation of rhinos in Natal. In: Penzhorn BL, Kriek NJR (eds) *Proceedings of a Symposium on Rhinos as Game Ranch Animals*, Onderstepoort, Republic of South Africa, 9-10 September 1994, pp 25-30
- Prasetyo L, Noordin N (1993) Sumatran rhino (*Dicerorhinus sumatrensis*) captive propagation in relation to its conservation. In: Ryder 1993, pp 274-276
- Prins HHT (1993) Geographic variation in skulls of the nearly extinct Small Black rhinoceros *Diceros bicornis michaeli* in northern Tanzania. *Zeitschrift für Säugetierkunde* 55:260-269
- Puschmann W (1987) Über das Hornwachstum beim Spitzmaulnashorn (*Diceros bicornis*). *Felis* 5:60-61, figs 1-2
- Puschmann W, Schröpel M (1988) Erneuter Hornverlust bei einem Spitzmaulnashorn. *Felis* 6:89-92, figs 1-4
- Rauwolf L [1582] (1738) A collection of Curious Travels and Voyages Containing Dr. Leonhart Rauwolf's Journey into the Eastern Countries, vol 2. Ray J (ed). London
- Rawlins CGC (1979) The breeding of white rhinos in captivity: a comparative survey. *Zoologische Garten (NF)* 49(1):1-7, fig 1
- Rawson J (1977) *Animals in Art*. London
- Raye JB (1935) 'Notitie van het merkwaardigste meyn bekend' 1732-1772, naar het oorspronkelijke dagboek medegedeeld. Amsterdam
- Redeker G (1982) Ik ben Sai Taro. *Artis, Amsterdam* 27(2):152-153, 1 fig
- Reid J (1985) Bring 'em back alive. *Texas Monthly*, March 1985 [6 pages]
- Reinhold R (1984) Black rhinos find home on the range. *New York Times* 13 November 1984
- Reuther RT (1973) Rhinoceros data. *AAZPA Newsletter* 13(4):5-6
- Reynolds RJ (1961a) Asian rhinos in captivity. *International Zoo Yearbook* 2:17-42
- Reynolds RJ (1961b) White rhinos in captivity. *International Zoo Yearbook* 2:42-43
- Reynolds RJ (1961c) Javan rhino in Berlin Zoo. *International Zoo News* 8(3):76-77
- Reynolds RJ (1962a) Rangoon, Burma. *International Zoo News* 9(2):54
- Reynolds RJ (1962b) Death of oldest Indian rhinos. *International Zoo News* 9(4):99
- Reynolds RJ (1962c) White rhinos arrive in the USA. *International Zoo News* 9(5):126
- Reynolds RJ (1963) The black rhinoceros *Diceros bicornis* in captivity. *International Zoo Yearbook* 4:98-113
- Reynolds RJ (1967) Some photographs of rhinos exhibited by American circuses between 1855 and 1926. *Zoologische Garten (NF)* 34(6):279-292, figs 1-5
- Reynolds RJ (1968) Circus rhinos. *Bandwagon* 12(6):4-13, figs 1-14
- Reynolds RJ (1970) Circus rhinos, part II. *Bandwagon* 14(6):4-13, figs 1-19
- Reynolds RJ (1982) Bobby the rhinoceros ends lengthy rhino-less run under RBBB tent. *The White Tops* 55(2):23-24, 4 figs
- Reynolds RJ (1993) Ringling Bros. 1913: some observations and corrections. *Bandwagon*, July/August 1993:27-29
- Richard XM, Zainuddin ZZ, Vidyadaran MK, Tajuddin AM (1990) Some aspects on the behaviour of the Sumatran rhinoceros (*Dicerorhinus sumatrensis*). *Proceedings 2nd Congress Vet Assoc Malaysia*, 1990:118-120, 3 figs
- Ridley HN (1901) The Sumatran rhinoceros. *Journal of the Straits Branch of the Royal Asiatic Society* 35:105-106
- Ridley HN (1906) The menagerie at the Botanic Gardens. *Journal of the Straits Branch of the Royal Asiatic Society* 46:133-194
- Rieches R (1993) Rhinoceros breeding at San Diego Wild Animal Park. In: Ryder 1993, pp 296-298
- Ritvo H (1990) [1987] *The Animal Estate: The English and Other Creatures in the Victorian Age*. Penguin Books
- Rix CE (1978) *Royal Zoological Society of South Australia 1878-1978*. Adelaide
- Rohr W (1959) Sorgen um Nepals Einhörner. *Orion* 14:955-959, 8 figs
- Rookmaaker LC (1973a) Breeding the rhinoceros in zoological gardens. *AAZPA Newsletter* 14(3):5-8
- Rookmaaker LC (1973b) Captive rhinoceroses in Europe from 1500 until 1810. *Bijdragen tot de Dierkunde, Amsterdam* 43(1):39-63, figs 1-13
- Rookmaaker LC (1976) An early engraving of the black rhinoceros (*Diceros bicornis* (L.)) made by Jan Wandelaar. *Biological Journal of the Linnean Society* 8:87-90, pls 1-2
- Rookmaaker LC (1977) The identity of the one-horned rhinoceros in Berlin 1874-1884. *International Zoo News* 24(2):15
- Rookmaaker LC (1978a) De neushoorn van 1741. *Ons Amsterdam* 30(1):16-17, 3 figs
- Rookmaaker LC (1978b) Two collections of rhinoceros plates compiled by James Douglas and James Parsons in the eighteenth century. *Journal of the Society for the Bibliography of Natural History, London* 9(1):17-38, figs 1-7
- Rookmaaker LC (1979) The first birth in captivity of an Indian rhinoceros (*Rhinoceros unicornis*): Kathmandu, May 1824. *Zoologische Garten (NF)* 49(1):75-77, fig 1
- Rookmaaker LC (1981) Early rhinoceros systematics. In: Wheeler A, Price JH, *History in the Service of Systematics*, pp 111-118. London
- Rookmaaker LC (1982) A story of horns: early views on rhinoceros classification. *Zoonooz, San Diego* 55(4):4-10, 16 figs

- Rookmaaker LC (1983a) Bibliography of the Rhinoceros: An Analysis of the Literature on the Recent Rhinoceroses in Culture, History and Biology. Rotterdam
- Rookmaaker LC (1983b) Jamrachs Rhinoceros. Bongo, Berlin 7:43-50, 1 fig
- Rookmaaker LC (1983c) Histoire du rhinocéros de Versailles (1770-1793). Revue Histoire des Sciences 36(3/4):307-318, figs 1-5
- Rookmaaker LC (1983d) Die Unterarten des Spitzmaulnashorns (*Diceros bicornis*) und ihre Zucht in Menachenobhut. In: Klös and Frese 1983, pp 41-45
- Rookmaaker LC (1984a) The taxonomic history of the recent forms of Sumatran rhinoceros (*Dicerorhinus sumatrensis*). Journal of the Malaysian Branch of the Royal Asiatic Society 57(1):12-25, figs 1-7
- Rookmaaker LC (1984b) The former distribution of the Indian rhinoceros (*Rhinoceros unicornis*) in India and Pakistan. Journal of the Bombay Natural History Society 80(3):555-563
- Rookmaaker LC (1985) De iconografie van de tweehoornige neushoorn van 1500 tot 1800. In: Kruythoof C (ed), Zoom op Zoo: Antwerp Zoo Focusing on Arts and Sciences, pp 277-303. Antwerp
- Rookmaaker LC (1988) The Indochinese rhinoceros. Oryx 22(4):241
- Rookmaaker LC (1993) The mysterious 'Liverpool Rhinoceros'. Zoologische Garten (NF) 63(4):246-258, figs 1-7
- Rookmaaker LC (1995) Subspecies and ecotypes in the black rhinoceros. Pachyderm, Nairobi 20:39-40
- Rookmaaker LC (1997) Evidence of a rhinoceros at Hay-Market in 1737. The Bartlett Society Newsletter July 1997
- Rookmaaker LC, Keeling C (1991) Evidence on a Javan rhinoceros alive in Manchester ca. 1870. The Bartlett Society Journal 2:16-17
- Rookmaaker LC, Reynolds RJ (1985) Additional data on rhinoceroses in captivity. Zoologische Garten (NF) 55(2/3):129-158, figs 1-9
- Rost A (1993) Rhinoceros and the Jacksonville Zoo. Kitabu, Jacksonville, Fall 1993, p 9
- Rousselet L (1877) L'Inde des Rajahs: Voyage dans l'Inde Centrale et dans les Presidences de Bombay et du Bengale. Paris
- Rüedi D (1985) Das 20. Zolli-Panzernashorn gestorben. Zolli, Basel 54:13, 2 figs
- Rüedi D (1989) Panzernashorn No 21. Zolli, Basel 62:7-9
- Rüedi D (1990) T wie Tanaya. Zolli, Basel 64:4-5, 2 figs
- Rüedi D (1991) Zolli-Panzernashorn Nr. 22 und Nr. 23! Zolli, Basel 66:12-14, 3 figs
- Rümpler G (1991a) Haltung und Zucht von Breitmaulnashörnern (*Ceratotherium simum simum*) im Allwetterzoo Münster. Zeitschrift des Kölner Zoo 34(3):91-102, figs 1-14
- Rümpler G (1991b) Münster Zoo (Allwetterzoo), Germany. International Zoo News 38(2):43-44, 1 fig
- Ruhe H Jr (1970) Beobachtungen, Erfahrungen und Erkenntnisse bei der Einrichtung von Freigehegen für afrikanische Wildtiere ausserhalb des afrikanischen Kontinents. Zoologische Garten (NF) 38(5):246-262, figs 1-8
- Ruiter LC Coomans de (1957) Een terugblik (7). Blijdorp-Geluiden, Rotterdam 5(9):2-7, 8 figs
- Ryder OA (ed) (1993) Rhinoceros Biology and Conser-



Fig. 165. Bogor's Taman Safari Sumatran rhinoceros, 1995.

- vation: Proceedings of an International Conference, May 9-11, 1991, San Diego, California, USA. Zoological Society of San Diego
- Ryhiner P, Mannix D (1959) The Wildest Game. London [First edition 1958]
- Saban R (1983) La dissection au Muséum du rhinocéros de la Menagerie de Versailles en 1793, et les 'Vélins du Museum'. Comptes Rendus du 108e Congrès National des Sociétés Savantes, Grenoble, Section des Sciences, Fasc IV:33-40, figs 1-6
- Sabharwal DN (1989) Birth of rhino calves in Kanpur Zoo. Zoos' Print, Coimbatore 4(12):5-7, 1 fig
- Sacc F (1861) Le Jardin Zoologique de Marseille. Revue et Magazine de Zoologie, Pure et Appliquée 2(13(1)):34-46 [German translation in Zoologische Garten 2(9):160-163]
- Sakamoto J (1989) Keeping and breeding black rhinoceros. [Japanese, English summary]. Animals and Zoo, Tokyo 1989(4):4-7, 5 figs
- Sander H (1779) Nachricht vom Rhinoceros in Versailles. Naturforscher, Halle 13:1-10
- Sanyal RB (1892) A Hand-Book of the Management of Animals in Captivity in Lower Bengal. Calcutta
- Sanyal RB (1905) Report of the Honorary Committee for the Management of the Zoological Garden, for the Year 1904-05. Calcutta
- Schafer EH (1985) The Golden Peaches of Samarkand: A Study of Tang Exotics. Berkeley
- Schaffer NE, Beehler B, Jeyendran RS, Balke B (1990) Methods of semen collection in an ambulatory greater one-horned rhinoceros (*Rhinoceros unicornis*). Zoo Biology 9:211-221, figs 1-5
- Schaller GB, Nguyen Xuan Dang, Le Dinh Thuy, Vo Thanh Son (1990) Javan rhinoceros in Vietnam. Oryx 24(2):77-80, 2 figs
- Schaller K, Pilaski J (1979) Pocken bei Breitmaulnashörnern (*Ceratotherium s. simum*) im Zoologischen Garten Münster. Zoologische Garten (NF) 49(3):169-184, figs 1-13
- Scherpner C (1983) Von Bürgern für Bürger: 125 Jahre Zoologischer Garten Frankfurt am Main. Frankfurt a.M
- Schinz HR (1824) Naturgeschichte und Abbildungen der Säugetiere, vol 2. Zürich
- Schinz HR (1845) Systematisches Verzeichniß aller bis jetzt bekannten Säugethiere oder Synopsis Mammalium nach dem Cuvier'schen System. Solothurn
- Schlawe L (1961) Ein weibliches Sumatranashorn in

- Kopenhagen (*Didermocerus sumatrensis*). *Freunde des Kölner Zoo* 4(4):94-95, figs 1-7
- Schlawe L (1969) Die für die Zeit vom 1. August 1844 bis 31. Mai 1888 nachweisbaren Thiere im Zoologischen Garten zu Berlin. Berlin
- Schlawe L (1972) Aus der Geschichte des Hamburger Tiergartens. *Zoologische Garten (NF)* 41(3/4):168-186, figs 1-15
- Schlegel H (1872) *De Dierentuin van het Koninklijk Zoologisch Genootschap Natura Artis Magistra te Amsterdam*. Amsterdam
- Schmidt RE, Hartfiel DA (1976) Disseminated bacterial infection in an infant rhinoceros. *Journal of Zoo Animal Medicine* 7(2):15-17
- Schneider KM (1930) Bemerkungen über die von Christoph Schulz 1929 eingeführten ostafrikanischen Tiere. *Zoologische Garten (NF)* 31:19-28, figs 1-16
- Schreber JCD von (1835) *Die Säugethiere in Abbildungen nach der Natur mit Beschreibungen*, vol 6. Erlangen
- Schrevers F (1984) Alfred Ost en de zoo. *Zoo, Antwerpen* 50(1):32-35
- Schürer U (1982) Zoodom, der Nationalzoo der Dominikanischen Republik und einige Bemerkungen über die Fauna des Landes. *Zeitschrift des Kölner Zoo* 25(2):59-63, figs 1-10
- Schwarz GB (1751) *Reise in Ost-Indien*. Heilbronn
- Sclater PL (1871) Exhibition of, and remarks on, a horn of the male Indian rhinoceros (*Rhinoceros unicornis*). *Proceedings of the Zoological Society of London* 1871:8-11, figs 1-3
- Sclater PL (1872) Report on the additions to the Society's menagerie in February, 1872. *Proceedings of the Zoological Society of London* 1872:493-496, pls 23-26
- Sclater PL (1874) Arrival of a Javan rhinoceros. *Proceedings of the Zoological Society of London* 1874:182-183, pl 28
- Sclater PL (1875) Exhibition of a drawing of a supposed new rhinoceros from the terai of Bhootan. *Proceedings of the Zoological Society of London* 1875:82
- Sclater PL (1876) On the rhinoceroses now or lately living in the Society's menagerie. *Transactions of the Zoological Society of London* 9:645-660, figs 1-9, pls 95-99
- Sclater PL (1876b) Remarks upon a skin of a young rhinoceros from the Sunderbans. *Proceedings of the Zoological Society of London* 1876:751
- Sclater PL (1877) Remarks on a living specimen of *Rhinoceros sondaicus* from the Sunderbans. *Proceedings of the Zoological Society of London* 1877:269-270
- Sclater PL (1878) On additions to the menagerie. *Proceedings of the Zoological Society of London* 1878:788-791.
- Sclater PL (1879) On additions to the menagerie. *Proceedings of the Zoological Society of London* 1879:308
- Sclater PL (1880) Remarks on animals observed in the zoological gardens of Berlin, Hamburg, Amsterdam, The Hague, and Antwerp. *Proceedings of the Zoological Society of London* 1880:420
- Sclater PL (1884) On *Rhinoceros lasiotis*. *Proceedings of the Zoological Society of London* 1884:55-56
- Sclater PL (1885) On additions to the menagerie. *Proceedings of the Zoological Society of London* 1885:421
- Sclater PL (1896) On continental menageries. *Proceedings of the Zoological Society of London* 1891:326-327
- Sclater WL (1891) *Catalogue of Mammalia Preserved in the Indian Museum Calcutta*, vol 2. Calcutta
- Scott HH (1927) Neoplasm in an Indian rhinoceros. *Proceedings of the Zoological Society of London* 1927:503-510, pls 1-2
- Scott RS (1971) Rhino roundup in Nepal. *Karatasi Yenze Habari, Kingsport* 19(2):30-33, 3 figs
- Selous FC (1881) *A Hunter's Wanderings in Africa*. London
- Shima A (1989) A jet set red rhino. *Koala Club News, San Diego* 16(1):1,4-5, figs
- Shoemaker AH (1977) Two years after opening: the zoo in Columbia. *International Zoo News* 24(1):22-27, 6 figs
- Sigel WL (1881) Die Thierpflege des zoologischen Gartens in Hamburg. *Zoologische Garten (AF)* 46(9):260-272
- Singh DM, Sharma R, Bhuyan UN, Thakuria DB, Barua M, Deka H, Talukdar TC, Walker S (1992) Present status of rhinocerosus in Assam State Zoo, Guwahati. *Zoos' Print, Coimbatore* 7(8):20-21
- Skafte H (1964) *Rhino Country*. London
- Sliggers B (1982) *Het Schetsboek van Cornelis van Noorde 1731-1795: Het Leven van een Veelzijdig Haarlems Kunstenaar*. Haarlem
- Smith LJ (1970) White rhino born. *International Zoo News* 17(1):3, 1 fig
- Smith RL, Read B (1992) Management parameters affecting the reproductive potential of captive, female black rhinoceros, *Diceros bicornis*. *Zoo Biology* 11:375-383, fig 1
- Sody HJV (1959) Das Javanische Nashorn, *Rhinoceros sondaicus*, historisch und biologisch. *Zeitschrift für Säugetierkunde* 24(3/4):109-240, pls 5-8, figs 1-7
- Sonne-Hansen R (1972) Observations on the Sumatran rhino (*Dicerorhinus sumatrensis*) at Copenhagen Zoo. *Zoologische Garten (NF)* 42(5/6):296-303, figs 1-6
- Sotani K (1974) History of rhinoceroses in Japanese zoos. *Journal of the Japanese Association of Zoological Gardens and Aquariums* 16(2):44-47. [In Japanese, English summary]
- Spala P, Hradecky P (1993) Preliminary determination of nutritional requirements of the pregnant black rhinoceros (*Diceros bicornis*). In: Ryder 1993, pp 277-281
- Speiser F (1973) *Liebespiel bei Riesentieren*. Zolli, Basel 30:3-5, 7 figs
- Stöcker H (1925) Erklärung des Nashornreiters auf den Reliefs von Angkor-Vat. *Artibus Asiae* 1(2):128-130, figs 1-2
- Störk L (1977) *Die Nashörner: Verbreitungs- und Kulturgeschichtliche Materialien unter besonderer Berücksichtigung der Afrikanischen Arten und des Altägyptischen Kulturbereiches*. Hamburg
- Strahan R (1991) *Beauty and the Beasts: A History of Taronga Zoo, Western Plains Zoo and their Antecedents*. Sydney
- Street P (1953) *Whipsnade*. London
- Struyf K (1991) *Planckendael: Neushoorn Nico*. *Zoo, Antwerpen* 56(3):34-35



Fig. 166. Female black rhinoceros 'Kilaguni' with baby 'Saba' at Berlin Zoo on 7th February 1991.

- Struyf K (1993) Uit het plakalbum van Teja, de kleine Indische neushoorn. *Zoo, Antwerpen* 58(4):26-29, 12 figs
- Stuart S (1994) Sumatran rhino nears extinction. *IUCN Bulletin* 25(2):24
- Svitalsky M, Vahala J, Spala P (1993) Breeding experience with Northern white rhinos (*Ceratotherium simum cottoni*) at Zoo Dvur Kralove. In: Ryder 1993, pp 282-286
- Sweet JM (1965) Robert Jameson in London, 1793: excerpts from Robert Jameson's *Journal of a Voyage from Leith to London, 1793*. *Annals of Science* 19(2):81-116, pls 8-9
- Swierstra KN (1888) Systematische naamlijst van gewervelde dieren, voor de diergaarde levend ingekomen van 1 Mei 1838 tot 30 April 1888. *Bijdragen tot de Dierkunde* 1888(3):i,1-104
- Syafii M, Sutarman, Sudhano (1987) On the efforts to breed the Sumatran rhino (*Dicerorhinus sumatrensis*) in captivity in Indonesia. *Rimba Indonesia* 21(1):48-55
- Tajuddin MA, Zainuddin ZZ, Nor SM, Bakar N, Razak ZA (1988) Notes on the birth of a Sumatran rhinoceros at the Malacca Zoo, Malaysia. *Journal of Wildlife and Parks, Kuala Lumpur* 6/7:39-42
- Takagi S et al (1964) Tuberculosis in a rhinoceros. *Bulletin of University of Osaka Prefecture (B)* 15: 125-130, figs 1-5
- Tavernier JB (1676) *Les Six Voyages qu'il a Fait en Turquie, en Perse, et aux Indes*, vol 2. Paris
- Tavernier JB (1924) *Travels in India*, vol 1. New Delhi
- Taylor D (1994) *The Animals Came Out Two by Two: The Final Days of Windsor Safari Park*. London
- Thayer S (1975) One sheet. *Bandwagon*, May/June 1975:31
- Thayer S (1986) *Annals of the American Circus 1830-1847*, vol 2. Seattle
- Thevet A (1556) *Cosmographie de Levant*. Lyon
- Thomas HL (1801) An anatomical description of a male rhinoceros. *Philosophical Transactions of the Royal Society of London* 1801:145-152, pl X
- Thomas O (1901) Notes on the type specimen of *Rhinoceros lasiotis* Sclater; with remarks on the generic position of the living species of rhinoceros. *Proceedings of the Zoological Society of London* 1901(2):154-158
- Thomas WD (1982) The rhinoceros in captivity: the Los Angeles Zoo story. *Zoo View, Los Angeles* 16(3):10-13
- Thomas WD (1989) Sumatran rhino at the Los Angeles Zoo. *AAZPA Newsletter* 30(1):1, 1 fig
- Thomson JK, Priestley FW, Polding JB (1949) Enteritis of a white rhinoceros associated with *Pseudomonas pyocyanea* infection. *Veterinary Record* 61: 341
- Toit R du (1986) Re-appraisal of black rhinoceros subspecies. *Pachyderm, Nairobi* 6:5-9
- Toit R du (1987) The existing basis for subspecies classification of black and white rhinos. *Pachyderm, Nairobi* 9:3-5
- Toovey J (1979) African plains exhibit at Whipsnade Park. *International Zoo Yearbook* 19:270-274, figs 1-2, pls 55-57
- Toynbee JMC (1973) *Animals in Roman Life and Art*. London

- Tun Yin U (1967) Wild Animals of Burma. Rangoon
- Turner E (1989) Rhinos born to imported females. AAZPA Newsletter November 1989:23
- Ullrich U, Ullrich W (1968) Im Dschungel der Panzernashörner. Radebeul
- Ullrich W (1955) Bemerkenswerte Aufnahmen eines jungen Sumatra-Nashorns. Zoologische Garten (NF) 22:29-33, figs 1-2
- Ullrich W (1967) Nashornstrassen in Assam. In: Hediger H (ed) Die Strassen der Tiere, pp 56-67, figs 1-6. Braunschweig
- Ulmer FA Jr (1941) The living rhinoceros. Fauna, Philadelphia 3(1):3-11, 9 figs, 5 maps
- Ulmer FA Jr (1956) Compatible rhinos: a rare price for any zoo. America's First Zoo, Philadelphia 8(4):7, 1 fig
- Ulmer FA Jr (1958) On breeding rhinoceroses. America's First Zoo, Philadelphia 10(3):3-6, 5 figs
- Ulmer FA Jr (1959) The golden age of zoo exhibits. America's First Zoo, Philadelphia 11(1):5-9, 4 figs
- Unbegaun BO (1956) Wie hieß das Rhinoceros im Altrussischen? Veröffentlichten Ost-Europe Instituts Freien Universität Berlin 9:546-551
- Vahala J, Spala P, Svitalsky M (1993) Maintaining and breeding the Northern white rhinoceros *Ceratotherium simum cottoni* at Dvur Kralove Zoo. International Zoo Yearbook 32:16-20
- Valandikar SC, Raju R (1996) Pulmonary tuberculosis in black rhinoceros (*Diceros bicornis*) in Mysore Zoo. Zoos' Print, Coimbatore 11(3):16-17
- Varthema of Bologna, Ludovico di (1928) The Itinerary. London
- Vellayan S, Zahedi M, Jeffery J (1983) Gastric myiasis due to *Gyrostigma pavesii* Corti (Diptera: Gastrophilidae) in a white rhinoceros, *Ceratotherium simum*. Malay. Veterinary Journal 7:241-244, fig 1
- Venugopal B, Shivashanker R, Deepak JC, Lakshminarayana MS, Naik S (1994) Activity pattern of Indian rhino in Mysore Zoo. Zoos' Print, Coimbatore 9(11):9-12
- Verheij I (1992) Op Reis met Clara: De Geschiedenis van een Bezienswaardige Neushoorn. Rotterdam
- Verstraete A (1992) Strange but true: from ZSL records. Newsletter, The Bartlett Society, July 1992:6
- Vézin L (1990) Les Artistes au Jardin des Plantes. Paris
- Vigne L (1984) Some positive news from Kenya. African Elephant & Rhino Group Newsletter 3:19
- Vigne L, Martin EB (1996) Assam State Zoo supplies rhinos to West Bengal. International Zoo News 43(7):513-515, 1 fig
- Vincent J (1968-1971) Movement of square-lipped (white) rhinoceros *Ceratotherium simum simum*. Lammergeyer 9:23-25 (1968); 10:92 (1969); 11:80 (1970a); 12:73 (1970b); 13:55 (1971)
- Virchow H (1910) Die Wirbelsäule des Abessinischen Nashorns (*Diceros bicornis*) nach Form zusammengesetzt. Sitzungsberichte der Kg. Preussischen Akademie der Wissenschaften zu Berlin 1910(2):848-864, figs 1-9
- Vogel [?] (1817) Analyse des Urins vom Rhinoceros und vom Elephanten. Journal für Chemie und Physik (Schweigger), Nürnberg 19:156-165
- Vollers M (1989) Oh, give me a home where wild rhinos roam. Time Magazine, 26 June 1989:12-13
- Wackernagel H (1962) Von unseren Nashörnern. Zolli, Basel 8:5-14, 7 figs
- Wackernagel H (1985) Chitawan. Zolli, Basel 54:10-12
- Walker S (1994) The first real zoo in India...in the world? Zoos' Print, Coimbatore 9(7):1-2
- Webster B (1984) Foul-humored rhinos going to Texas Haven. New York Times, 24 March 1984
- Williamson T (1807) Oriental Field Sports. London
- Wolf J (1818) Abbildungen und Beschreibungen merkwürdiger Gegenstände, vol 1. Nürnberg
- Wood-Mason J (1875) Living specimen of Rhinoceros sondaicus in Calcutta. Proceedings of the Asiatic Society of Bengal 1875:229-230
- Wray L (1905) Rhinoceros trapping. Journal of the Federated Malay States Museums 1(2):63-65
- Wunderlich L (1892) Der Hornwechsel beim Indischen Nashorn. Zoologische Garten 33(12):373-374
- Yalden DW, Largen MJ, Kock D (1986) Catalogue of the mammals of Ethiopia, 6. Monitore Zoologico Italiano (NS) Suppl 21(4):31-103, figs 1-10
- Yamamoto S (1967) Notes on the breeding of black rhinoceroses *Diceros bicornis* at Kobe Zoo. International Zoo Yearbook 7:163
- Yule H, Burnell AC (1886) Hobson-Jobson. London
- Zainuddin ZZ, Tajuddin MA, Shamsuddin M, Suri M (1990a) The husbandry and veterinary care of captive Sumatran rhinoceros at Zoo Melaka, Malaysia. Malayan Nature Journal 44(1):1-19
- Zainuddin ZZ, Tajuddin MA, Samsuddin SM, Marid-Hassan ARK (1990b) Milk composition of the Sumatran rhinoceros (*Dicerorhinus sumatrensis sumatrensis*). Proceedings 2nd Congress Vet Assoc Malaysia 1990:121-122
- Zainuddin ZZ, Vidyadaran MK, Tajuddin MA, Rozyati TH, Peng BT (1990c) Observations on the skeleton of the Sumatran rhinoceros. Journal Vet Malaysia 2(1):59-61
- Zainuddin ZZ, Sheikh-Omar AR, Tajuddin M (1990d) Severe necrotizing enteritis in a Sumatran rhinoceros (*Dicerorhinus sumatrensis*). First Congress of the Veterinary Association of Malaysia, Kuala Lumpur
- Zukowsky L (1956) Kleine Hagenbeck-Erinnerungen. Zoologische Garten (NF) 21:9-24
- Zukowsky L (1965) Die Systematik der Gattung *Diceros* Gray, 1821. Zoologische Garten (NF) 30:1-178, figs 1-81

THE RHINOCEROS IN CAPTIVITY

by L.C. Rookmaker

The earliest available records show that the rhinoceros was seen in the arenas in Rome and at the courts of the Chinese rulers about 2000 years ago. When zoological gardens and travelling menageries became fashionable in the 19th century, the rhinoceros was imported more frequently.

At least 2439 rhinoceroses have been exhibited around the world in 501 collections located in 79 countries. Each specimen which could be traced has been included in the present work, arranged by species and location.

The Indian Rhinoceros was first sighted in Europe in 1515 and, since then, 397 animals have been exhibited outside their native habitat. The Javan Rhinoceros has rarely been seen in captivity, and only 22 specimens could be traced. Ninety-six specimens of the Sumatran Rhinoceros have been seen. The African Black Rhinoceros has been presented by 775 specimens since 1870, and the White Rhinoceros by 1105 examples since 1930. This book details where each animal came from, when it arrived and how long it survived, and also how many animals were born. It is illustrated by 168 photographs which were taken in many of the collections throughout the world.

The author was assisted in his task of compiling this information by Mr. Marvin Jones, Dr. H.-G. Klös and Mr. R.J. Reynolds III. Marvin Jones, former registrar of the San Diego Zoo, reviewed the data of animals living in zoos throughout the world. Dr. Klös, former director of the (West) Berlin Zoo, who has a long-standing interest in the rhinoceros, assembled a comprehensive collection at his zoo, and initiated the studbooks for the two African species. R.J. Reynolds III completed the first lists of rhinoceroses held in captivity in the 1950s and continued to accumulate information on the subject.