

# Contributions from the Laboratory of Evolutionary Biology

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(Names of Laboratory members are in **boldface**.)

## Scientific Publications

1973

1. **Hussain, S.T.** 1973. Appearance of *Hipparion* in the Tertiary of the Siwalik Hills. *Nature* 246: 531.

1975

2. **Hussain, S.T.** 1975. Evolutionary and functional anatomy of the pelvic limb in fossil and Recent Equidae. (Parts I and II) *Anatomy, Histology, Embryology* 4: 179-222.

1977

3. **Hussain, S.T., J. Munthe**, R.M. West and J.R. Lukacs. 1977. The Daud Khel Local Fauna: A preliminary report on a Neogene vertebrate assemblage from the Trans-Indus Siwaliks, Pakistan. *Milwaukee Public Museum Contributions in Biology and Geology* 16: 1-16.

1978

4. **Hussain, S.T.**, H. DeBruijn and J.M. Leinders. 1978. Middle Eocene rodents from the Kala Chitta Range (Punjab, Pakistan). Three parts, *Koninklijke Nederlandse Akademie van Wetenschappen, Amsterdam, Series B* 81(1): 74-112.
5. West, R.M., J.R. Lukacs, **J. Munthe** and **S.T. Hussain**. 1978. Vertebrate fauna from Neogene Siwalik Group, Dang Valley, Western Nepal. *Journal of Paleontology* 52(5): 1015-1022.
6. Moonen, J.J.M., P.Y. Sondaar and **S.T. Hussain**. 1978. A comparison of larger fossil mammals in the stratotypes of the Chinji, Nagri and Dhok Pathan Formations (Punjab, Pakistan). *Koninklijke Nederlandse Akademie van Wetenschappen, Amsterdam, Series B* 81(4): 425-436.

1979

7. **Domning, D.P.** 1979. [Review of] *Evolution of Living Organisms*. Pierre-P. Grassé. *Syst. Zool.* 27(4): 487-488.
8. Takahashi, S., **D.P. Domning**, and T. Saito. 1979. [On the discovery of a fossil sea cow from Ohe town, Yamagata Prefecture.] (Abstr., in Japanese.) *Abstrs. 86th Ann. Meeting Geol. Soc. Japan*: 228.
9. **Hussain S.T., J. Munthe**, S.M.I. Shah, R.M. West and J.R. Lukacs. 1979. Neogene stratigraphy and fossil vertebrates of the Daud Khel Area, Mianwali District, Pakistan. *Memoirs of the Geological Survey of Pakistan* 13: 1-27.
10. **Munthe, J., S.T. Hussain**, J.R. Lukacs, R.M. West and S.M.I. Shah. 1979. Neogene stratigraphy of the Daud Khel area, Mianwali District, Pakistan. *Milwaukee Public Museum Contributions in Biology and Geology* 23:1-18.

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11. Woodburne, M.O. and **R.L. Bernor**. 1980. On superspecific groups of some Old World hipparionine horses. *Journal of Paleontology* 54(6): 1319-1348.
12. **Bernor, R.L.**, M.O. Woodburne, and J.A. Van Couvering. 1980. A contribution to the chronology of some Old World Miocene faunas based on hipparionine horses. *Géobios* 13(5): 705-739.
13. Campbell, B.G., M.H. Amini, **R.L. Bernor**, W. Dickinson, R. Drake, R. Morris, J.A. Van Couvering and J.A.H. Van Couvering. 1980. Maragheh: A classical Late Miocene vertebrate locality in Northwestern Iran. *Nature* 287: 837-841.
14. **Domning, D.P.** 1980. Feeding position preference in manatees (*Trichechus*). *J. Mammal.* 61(3): 544-547.
15. **Domning, D.P.**, and A.C. Myrick, Jr. 1980. Tetracycline marking and the possible layering rate of bone in a manatee (*Trichechus inunguis*). In: W.F. Perrin and A.C. Myrick, Jr., eds., *Age Determination of Toothed Whales and Sirenians. Rept. Internat. Whaling Comm., Special Issue No. 3*: 203-207.
16. **Domning, D.P.**, and D. Stermer. 1980. [Reconstruction of Steller's sea cow.] *Oceans* 13(5): 10-11.

1981

17. **Domning, D.P.** 1981. Distribution and status of manatees *Trichechus* spp. near the mouth of the Amazon River, Brazil. *Biol. Conservation* 19(2): 85-97.

18. **Domning, D.P.** 1981. *Manati* Steller, 1774 and *Trichechus exunguis* (Natterer in Diesing, 1839)(Mammalia: Sirenia): Proposal to place these names on the Official Indexes of Rejected and Invalid Names in Zoology. *Bull. Zool. Nomencl.* 38(2): 130-133.
19. **Domning, D.P.** 1981. Sea cows and sea grasses. *Paleobiology* 7(4): 417-420.
20. **Domning, D.P.** 1981. Manatees of the Amazon. *Sea Frontiers* 27(1): 18-23.
21. **Houde, P.,** and S.L. Olson. 1981. Paleognathous carinate birds from the early Tertiary of North America. *Science* 214(4526): 1236-1237.
22. de Bruijn, H., **S.T. Hussain** and J.J.M. Leinders. 1981. Fossil rodents from the Murree Formation near Banda Daud Shah, Kohat, Pakistan. *Koninklijke Nederlandse Akademie van Wetenschappen, Amsterdam, Series B* 84(1): 71-99.
23. Nio, S.D. and **S.T. Hussain.** 1981. Sedimentary studies of Neogene/Quaternary fluvial deposits in the Bhattani Range, Pakistan. In *Neogene/Quaternary Boundary* (Editors: M.V.A. Sastry, T.K. Kurien, A.K. Dutta and S. Biswas). Geological Survey of India, Calcutta 41: 177-183.

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24. Thomas, H., **R.L. Bernor,** and J.-J. Jaeger. 1982. Origines du peuplement mammalien en Afrique du Nord durant le Miocene terminal. *Géobios* 15(3): 283-297.
25. **Bernor, R.L.** 1982. A preliminary assessment of the mammalian biochronology and zoogeographic relationships of Sahabi, Libya. *Garyounis Scientific Bulletin, Special Issue No. 4:* 133-142.
26. **Domning, D.P.** 1982. Commercial exploitation of manatees *Trichechus* in Brazil c. 1785-1973. *Biol. Conservation* 22(2): 101-126.
27. **Domning, D.P.** 1982. Evolution of manatees: a speculative history. *J. Paleont.* 56(3): 599-619.
28. **Domning, D.P.** 1982. Fossil Sirenia from the Sahabi Formation. *Garyounis Sci. Bull., Special Issue No. 4:* 29-32.
29. **Domning, D.P.,** G.S. Morgan, and C.E. Ray. 1982. North American Eocene sea cows (Mammalia: Sirenia). *Smithsonian Contrib. Paleobiol.* 52: iii + 69.  
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30. **Domning, D.P.,** J. Shoshani, D. Rice, R. Hoffmann, and H. Hoeck. 1982. Orders

Sirenia, Proboscidea, Hyracoidea, and Tubulidentata. In: J.H. Honacki, K.E. Kinman, and J.W. Koepl, eds., *Mammal Species of the World*. Lawrence, Kansas, Allen Press & Assoc. Systematics Colls.: 305-307, 312-314.

31. de Bruijn, H., **S.T. Hussain** and J.J.M. Leinders. 1982. On some Early Eocene rodent remains from Barbara Banda, Kohat, Pakistan and the early history of the Order Rodentia. *Koninklijke Nederlandse Akademie van Wetenschappen, Amsterdam, Series B* 85(3): 249-258.
32. Wessels, W., H. de Bruijn, **S.T. Hussain** and J.J.M. Leinders. 1982. Fossil rodents from the Chinji Formation Banda Daud Shah, Kohat, Pakistan. *Koninklijke Nederlandse Akademie van Wetenschappen, Amsterdam, Series B* 85(3): 337-364.
33. Dehm, R., L.I. Jacobs, W. Wessels, H. de Bruijn and **S.T. Hussain**. 1982. Fossil rodents from the type area of the Chinji Formation, Siwalik Group, Pakistan. *Koninklijke Nederlandse Akademie van Wetenschappen, Amsterdam, Series B* 85(3): 259-263.

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34. **Bernor, R.L.** 1983. Geochronology and zoogeographic relationships of Miocene Hominoidea. In: R.L. Ciochon and R. Corruccini, eds., *New Interpretations of Ape and Human Ancestry*. Plenum Press, New York: 21-64.
35. **Domning, D.P.** 1983. Marching teeth of the manatee. *Natural History* 92(5): 8-11.
36. Gingerich, P.D., **P. Houde**, and D.W. Krause. 1983. A new earliest Tiffanian (Late Paleocene) mammalian fauna from Bangtail Plateau, western Crazy Mountain Basin, Montana. *Jour. Paleontology* 57(5): 957-970.
37. Thewissen, J.G.M., D.E. Russell, P.D. Gingerich and **S.T. Hussain**. 1983. A new dichobunid artiodactyl (Mammalia) from the Eocene of Northwest Pakistan. Part I. Dentition and Classification. *Koninklijke Nederlandse Akademie van Wetenschappen, Amsterdam, Series B* 86(2): 153-180.
38. **Hussain, S.T.**, P.Y. Sondaar, S.M.I. Shah, J.G.M. Thewissen, E.F.H.M. Cousin and C.F. Spoor. 1983. The artiodactyl astragalus. In Fossil Mammal Bones of Pakistan (Editors: **S.T. Hussain**, P.Y. Sondaar and S.M.I. Shah). *Memoirs of the Geological Survey of Pakistan* 14: 1-15.
39. **Hussain, S.T.** and **R.L. Bernor**. 1983. Late Miocene Siwalik equids and geochronology. *Himalayan Geology* 11: 35-42.
40. Romein, A.J., Smit and **S.T. Hussain**. 1983. Calcareous nannoplankton from the Cretaceous/Tertiary boundary. *Koninklijke Nederlandse Akademie van*

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41. **Bernor, R.L.** 1984. A zoogeographic theater and biochronologic play: the time/biofacies phenomena of Eurasian and African Miocene mammal provinces. *Paleobiologie Continentale*. 14(2): 121-142.
42. **Domning, D.P.** (Founder and Editor). **1984-present (published twice a year).** *Sirenews. Newsletter of the IUCN/SSC Sirenia Specialist Group*. Sponsored by IUCN - The World Conservation Union, Morges, Switzerland. (**NEWSLETTER**)
43. **Domning, D.P.**, and L. Hayek. 1984. Horizontal tooth replacement in the Amazonian manatee (*Trichechus inunguis*). *Mammalia* 48(1): 105-127.
44. **Domning, D.P.** 1984. Fossil sirenians from the Pamunkey River, Virginia. In: L.W. Ward and K. Krafft, eds., *Stratigraphy and Paleontology of the Outcropping Tertiary Beds in the Pamunkey River Region, Central Virginia Coastal Plain: Guidebook for the 1984 Field Trip, Atlantic Coastal Plain Geol. Assoc.*: 224-225. 1 pl.
45. **Domning, D.P.** 1984. Sea cow discovery. *Nature* 308(5959): 500.
46. **Domning, D.P.** 1984. Sea cows of the Chesapeake Bay. *Bugeye Times* (Calvert Marine Museum, Solomons, Md.) 9(1): 5-6.
47. **Domning, D.P.** 1984. [Review of] Richard Bradley, 'The Pre- Columbian Exploitation of the Manatee in Mesoamerica.' *Sirenews* No. 1: 14-17.
48. **Domning, D.P.**, and T.A. Deméré. 1984. New material of *Hydrodamalis cuestae* (Mammalia: Dugongidae) from the Miocene and Pliocene of San Diego County, California. *Trans. San Diego Soc. Nat. Hist.* 20(12): 169-188.
49. Packard, J., G. Rathbun, **D.P. Domning**, R.C. Best, P. Anderson, and T. O'Shea. 1984. Sea cows and manatees. In: D. Macdonald, ed., *The Encyclopedia of Mammals*. New York, Facts on File Publs.: 292-303. **Reprinted** in K. Banister and A. Campbell, eds., *The Encyclopedia of Aquatic Life*. New York, Facts on File Publs.: 340-349. 1985.
50. **Hussain, S.T.** and **R.L. Bernor**. 1984. Evolutionary history of Siwalik hipparions. In: The Early Evolution of Man (Editors: P. Andrews and J.L. Franzen), *Courier Forschungsinstitut Senckenberg*, Frankfurt, 69: 181-187.
51. Nio, S.D. and **S.T. Hussain**. 1984. Sedimentological frame-work of late Pliocene and Pleistocene fluvial deposits in the Bhattanni Range, Pakistan. *Geologie en Mijnbouw* 63: 55-70.

52. Khan, M.J., **S.T. Hussain**, M. Arif and H. Shaheed. 1984. Preliminary paleomagnetic investigations of the Manchar Formation, Gaj River Section, Kirthar Range, Pakistan. *Geology Bulletin, University Peshawar* 17: 145-152.
53. de Bruijn, H. and **S.T. Hussain**. 1984. The succession of rodent faunas from the Lower Manchar Formation of Southern Pakistan and its relevance for the biostratigraphy of the Mediterranean Miocene. *Paleobiologie Continentale*, Montpellier, 14(2): 191-204.

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54. **Bernor, R.L.** 1985. Neogene palaeoclimatic events and continental mammalian response: is there global synchronicity? *Sud-Afrikaanse Tydskrif-Wetenskap*. 81: 261.
55. **Bernor, R.L.** 1985. Systematics and evolutionary relationships of the hipparionine horses from Maragheh, Iran. *Paleovertebrata* 15(4): 173-269. (**MONOGRAPH**)
56. **Bernor, R.L.** and **S.T. Hussain**. 1985. An assessment of the systematic, phylogenetic and biostratigraphic relationships of Siwalik hipparionine horses. *Journal of Vertebrate Paleontology* 5(1): 32-87.
57. **Bernor, R.L.**, N.T. Boaz and J.E. Cronin. 1985. Paleoclimatic and paleobiogeographical correlates of hominoid evolutionary events. Annual Meeting, American Association of Physical Anthropology (Abstract: *American Journal of Physical Anthropology*)
58. **Bernor, R.L.** 1985. The use of hipparionine horse phylogeny for Old World continental correlations and biogeographic reconstructions. VIIIth International Congress of the Regional Committee on Mediterranean Neogene Studies, Budapest, September 15-22nd, 1985, p. 102; Abstract.
59. **Domning, D.P.** 1985. Potential biochronologic utility of European sirenians (Mammalia: Dugongidae). (Abstr.) VIIIth Congress, Regional Committee on Mediterranean Neogene Stratigraphy, Symposium on European Late Cenozoic Mineral Resources, Budapest, 15-22 Sept. 1985: 183.
60. **Domning, D.P.** 1985. Habitat protection: the only hope. *Save the Manatee Club News* (Fla. Dept. Natural Resources/Fla. Audubon Soc.), Dec. 1985: 2.
61. Barnes, L.G., **D.P. Domning**, and C.E. Ray. 1985. Status of studies on fossil marine mammals. *Marine Mammal Science* 1(1): 15-53.
62. Muizon, C. de, and **D.P. Domning**. 1985. The first records of fossil sirenians in the southeastern Pacific Ocean. *Bull. Mus. Natl. Hist. Nat. (Paris)* (4)7, Sect. C, no. 3:

189-213.

63. de Bruijn, H. and **S.T. Hussain**. 1985. Thryonomyidae from the Lower Manchar Formation of Sind, Pakistan. *Koninklijke Nederlandse Akademie van Wetenschappen, Amsterdam, Series B* 88(2): 155-166.

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64. **Bernor, R.L.** 1986. Mammalian biostratigraphy, geochronology and zoogeographic relationships of the Late Miocene Maragheh Fauna, Iran. *Journal of Vertebrate Paleontology* 6(1): 76-91.
65. **Bernor, R.L.**, L. Flynn and N. Solounias. 1986. Miocene mammalian biogeography, hominoid distribution and evolution. American Anthropological Association Annual Meeting, December 6, 1986, Philadelphia; Abstract.
66. **Bernor, R.L.** 1986. Symposium on Primate Phylogeny, Willi Hennig Society, November 9, 1986. *Journal of Human Evolution* 15(5): 409-412. Solicited review.
67. **Domning, D.P.** 1986. Pragmatism is not enough. *Nature* 319(6049): 94.
68. Ray, C.E., and **D.P. Domning**. 1986. Manatees and genocide. *Marine Mammal Science* 2(1): 77-78.
69. **Domning, D.P.** 1986. [Letter to the Editor.] *Creation/Evolution Newsletter* 5(6): 3-4. Nov./Dec. 1985 (publ. Feb. 17, 1986).
70. **Domning, D.P.**, and L. Hayek. 1986. Interspecific and intraspecific morphological variation in manatees (Sirenia: *Trichechus*). *Marine Mammal Science* 2(2): 87-144.
71. Takahashi, S., **D.P. Domning**, and T. Saito. 1986. *Dusisiren dewana*, n. sp. (Mammalia: Sirenia), a new ancestor of Steller's sea cow from the Upper Miocene of Yamagata Prefecture, northeastern Japan. *Trans. Proc. Palaeont. Soc. Japan*, N.S., No. 141: 296-321.
72. **Domning, D.P.**, C.E. Ray, and M.C. McKenna. 1986. Two new Oligocene desmostylians and a discussion of tethytherian systematics. *Smithsonian Contrib. Paleobiol.* 59: iii + 56. (**MONOGRAPH**)
73. **Domning, D.P.**, and C.E. Ray. 1986. The earliest sirenian (Mammalia: Dugongidae) from the eastern Pacific Ocean. *Marine Mammal Science* 2(4): 263-276.
74. **Houde, P.** 1986. Ostrich ancestors found in the Northern Hemisphere suggest new

hypothesis of ratite origins. *Nature* 324(6097): 563-565.

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75. **Bernor, R.L.**, K. Heissig and H. Tobien. 1987. Early Pliocene Perissodactyla from Sahabi, Libya. In: N.T. Boaz, A. El-Arnauti, A.W. Gaziry, J. de Heinzelin, and D.D. Boaz, eds., *Neogene Geology and Paleontology of Sahabi*. A. Liss, New York, pp. 233-254.
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77. Flynn, L.J. and **R.L. Bernor**. 1987. Late Tertiary mammals from the Mongolian People's Republic. *American Museum Novitates* No. 2872: 1-16.
78. **Bernor, R.L.**, Z. Qiu, and H. Tobien. 1987. Phylogenetic and biogeographic bases for an Old World hipparionine horse geochronology. Proceedings of the VIII International Congress of the Regional Committee on Mediterranean Neogene Stratigraphy. *Annales Instituti Geologici Publici Hungarici* 70: 43-53.
79. **Bernor, R.L.**, S. Sen and H. Thomas (Organizing Committee for Workshop on Neogene Mammalian Paleocology, Paleogeography and Geochronology, Paris, June, 1984). 1987. A consideration of some major topics on Old World Neogene mammalian chronology, migrations and palaeogeography. *Géobios* 20(4):431-439.
80. **Bernor, R.L.** 1987. Provincial diversification of European late Miocene hipparionine horses. Interim-Colloquium of working group on ecostratigraphy: Neogene climatic evolution in the Mediterranean, Montpellier-Barcelona, September 21-25, 1987; Abstract.
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82. **Domning, D.P.** 1987. How long have manatees been in Florida? *Save the Manatee Club News* (Fla. Dept. Nat. Resources/Fla. Audubon Soc.), Aug. 1987: 1-2.
83. Aranda-Manteca, F.J., and **D.P. Domning**. 1987. Sirénido del Mioceno medio de Baja California. (Abstr.) VII Congreso Nacional de Oceanografía, Resúmenes: 319.
84. **Domning, D.P.**, and H. Thomas. 1987. *Metaxytherium serresii* (Mammalia: Sirenia) from the Lower Pliocene of Libya and France: a reevaluation of its morphology, phyletic position, and biostratigraphic and paleoecological significance. In: N.T. Boaz, A. El-Arnauti, A.W. Gaziry, J. de Heinzelin, and D.D. Boaz, eds., *Neogene Paleontology and Geology of Sahabi*. New York, Alan R. Liss: 205-232.



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86. de Vos, J., J.J.M. Leinders and **S.T. Hussain**. 1987. A historical review of the Siwalik Hyaenidae (Mammalia, Carnivora) and description of two new finds from the Upper Siwalik of Pakistan. *Koninklijke Nederlandse Akademie van Wetenschappen, Amsterdam, Series B* 90(4): 333-369.

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87. **Bernor, R.L.**, L.J. Flynn, T. Harrison, **S.T. Hussain** and J. Kelley. *Dionysopithecus shuangouensis* (Catarrhini, Primates), a new element in the Kamlial fauna of Southern Sind, Pakistan. *Journal of Human Evolution* 17: 339-358.
88. **Bernor, R.L.**, J. Kovar, D. Lipscomb, F. Rögl and H. Tobien. 1988. Systematic, stratigraphic and paleoenvironmental contexts of first appearing Hipparion in the Vienna Basin, Austria. *Journal of Vertebrate Paleontology* 8(4): 427-452.
89. **Bernor, R.L.**, and **D.P. Domning**. 1988. Articles on Dwarfism, Gigantism, Paleobiogeography, Paleobotany, Paleontology, Sahabi, St. Gaudens, and Stratophenetics. In: I. Tattersall, E. Delson, and J. Van Couvering, eds., *Encyclopedia of Human Evolution and Prehistory*. New York & London, Garland Publishing: 167, 225-226, 407-408, 410, 436, 501, 502, 552-553.
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91. **Bernor, R.L.**, L.J. Flynn, T. Harrison, **S.T. Hussain** and J. Kelley. 1988. *Dionysopithecus* from Southern Pakistan and the biochronology and biogeography of early Eurasian catarrhines. *Journal of Human Evolution* 17: 339-358.
92. **Bernor, R.L.** 1988. European Neogene Mammal Chronology Symposium, Schloss Reisenburg, Germany, May 16-20, 1988. Report on a NATO Advanced Research Workshop. *Journal of Human Evolution* 17(6): 639-642; solicited review.
93. **Domning, D.P.** 1988. Fossil Sirenia of the West Atlantic and Caribbean region. I. *Metaxytherium floridanum* Hay, 1922. *J. Vert. Paleo.* 8(4): 395-426.
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96. **Bernor, R.L.**, H. Tobien and M.O. Woodburne. 1989. Patterns of Old World hipparionine evolutionary diversification. In: E. Lindsay, V. Fahlbusch and P. Mein, eds., *NATO Advanced Research Workshop, Schloss Reischensberg, Germany. European Neogene Mammal Chronology*. Plenum, New York, pp. 263-319.
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99. **Domning, D.P.** 1989. Fossil sirenians from the Suwannee River, Florida and Georgia. In: G.S. Morgan, ed., *Miocene Paleontology and Stratigraphy of the Suwannee River Basin of North Florida and South Georgia. Southeastern Geological Society Guidebook No. 30*: 54-60.
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101. **Domning, D.P.** 1989. Fossil Sirenia of the West Atlantic and Caribbean region. III. *Xenosiren yucateca*, gen. et sp. nov. *J. Vert. Paleo.* 9(4): 429-437.
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109. **Bernor, R.L.**, J. Kovar-Eder, J.-P. Suc and H. Tobien. 1990. A contribution to the evolutionary history of European late Miocene age hipparionines. *Paleobiologie Continentale* 17: 291-309.
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