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A new name for the oviraptorid dinosaur “*Ingenia*” *yanshini* (Barsbold, 1981; preoccupied by Gerlach, 1957)

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Abstract

The genus name of the small oviraptorid dinosaur *Ingenia yanshini* is preoccupied by the tripyleidid nematode *Ingenia mirabilis*, thus making the former a junior homonym of the latter. Although “*Ingenia*” *yanshini* is sympatric with *Conchoraptor gracilis*, it is distinguished from *Conchoraptor* by proportions of the manus. It also differs appreciably from the ingeniines *Heyuannia huangi* and *Nemegtomaia barsboldi* in manual and pelvic proportions. “*Ingenia*” *yanshini* is not referable to any other taxon, and is renamed *Ajancingenia yanshini* gen. nov. Several specimens originally referred to this species have subsequently been transferred to new genera, and the taxonomic assignment of material referred to *Ajancingenia yanshini* gen. nov. is reassessed.

Key words: Theropoda, Oviraptorosauria, *Ingenia*, *Ajancingenia*, Barun Goyot Formation

Introduction

The genus name of the oviraptorid theropod *Ingenia yanshini* (Barsbold, 1981) is preoccupied by the tripyleidid nematode *Ingenia mirabilis* (Gerlach, 1957). Therefore, the oviraptorid “*Ingenia*” *yanshini* requires renaming. “*Ingenia*” is well-documented by postcranial material from the Late Cretaceous of Mongolia. Cranial elements (including the mandible and braincase) are also preserved, although a complete skull unequivocally referable to “*Ingenia*” is unknown.

Much material has been referred to “*Ingenia*” over the years, but the assignment of some specimens to this genus is questionable. Several new genera have been erected for material formerly identified as “*Ingenia*” (Barsbold, 1986; Clarke *et al.* 2001; Lü *et al.* 2004). Paul’s (1988) referral of “*Ingenia*” *yanshini* to *Oviraptor* (Osborn, 1924) is unsupported, and “*I.*” *yanshini* differs substantially from *Oviraptor*. “*Ingenia*” occurs sympatrically with *Conchoraptor gracilis* (Barsbold, 1986), but the two species are not congeneric. Additionally, it is distinguished from the related taxa *Heyuannia huangi* (Lü, 2002) and *Nemegtomaia barsboldi* (Lü *et al.* 2005a) by several characters of the manus and pelvis, and is not referable to either genus. Therefore, the replacement name *Ajancingenia yanshini* gen. nov. is erected for “*Ingenia*” *yanshini*.

Institutional Abbreviations: MPC-D, Paleontological Center of the Mongolian Academy of Sciences, Ulaan Baatar, Mongolia (= GIN, Geological Institute, Mongolian Academy of Sciences); PIN, Paleontological Institute Nauk, Academy of Sciences, Moscow, Russia; Z. Pal., Palaeozoological Institute, Polish Academy of Sciences, Warsaw, Poland.

Systematic Paleontology

Dinosauria Owen, 1842

Saurischia Seeley, 1887

References

- Azuma, Y. (2005) *The Flying Dinosaurs*. Fukui Prefectural Dinosaur Museum, Katsuyama, 118 pp.
- Barsbold, R. (1977) [On the evolution of carnivorous dinosaurs]. *Joint Soviet-Mongolian Paleontological Expedition Transactions*, 4, 48–56. [in Russian with English summary]
- Barsbold, R. (1981) [Toothless carnivorous dinosaurs of Mongolia]. *Joint Soviet-Mongolian Paleontological Expedition Transactions*, 15, 28–39. [in Russian]
- Barsbold, R. (1986) Raubdinosaurier Oviraptoren. In: Vorobyeva, E.I. (Ed.), *Herpetological Studies in the Mongolian People's Republic*. Akademia Nauk SSSR Institut Evolyucionnoy Morfologii i Ekologii Zhivotnikhim. Moskva: A.M. Severtsova, pp. 210–223. [in Russian, with German summary]
- Barsbold, R., Maryañska, T. & Osmólska, H. (1990) Oviraptorosauria. In: Weishampel, D.B., Dodson, P. & Osmólska, H. (Eds.), *The Dinosauria 1st ed.* University of California Press, Berkeley, pp. 249–258.
- Clark, J.M., Norell, M.A. & Barsbold, R. (2001) Two new oviraptorids (Theropoda: Oviraptorosauria), Upper Cretaceous Djadokhta Formation, Ukhaa Tolgod, Mongolia. *Journal of Vertebrate Paleontology*, 21, 209–213.
[http://dx.doi.org/10.1671/0272-4634\(2001\)021\[0209:tnotou\]2.0.co;2](http://dx.doi.org/10.1671/0272-4634(2001)021[0209:tnotou]2.0.co;2)
- Choiniere, J.N., Clark, J.M., Forster, C.A., Norell, M.A., Eberth, D.A., Erickson, G.M., Chu, H. & Xu, X. (2013) A juvenile specimen of a new coelurosaur (Dinosauria: Theropoda) from the Middle-Late Jurassic Shishugou Formation of Xinjiang, People's Republic of China. *Journal of Systematic Paleontology*, 2013, 1–39.
<http://dx.doi.org/10.1080/14772019.2013.781067>
- Currie, P.J. (2002) Report on fieldwork in Mongolia, September 2001. In: *Alberta Paleontological Society, sixth annual symposium, "Fossils 2002"*. Presented by Alberta Paleontological Society, in conjunction with Canadian Society of Petroleum Geologists, Paleontological Division and Department of Earth Sciences, Mount Royal College, pp. 8–12.
- Dashzeveg, D., Novacek, M.J., Norell, M.A., Clark, J.M., Chiappe, L.M., Davidson, M.C., McKenna, L., Dingus, C., Swisher, C. & Perle, A. (1995) Unusual preservation in a new vertebrate assemblage from the Late Cretaceous of Mongolia. *Nature*, 374, 446–449.
<http://dx.doi.org/10.1038/374446a0>
- Dingus, L., Gaffney, E.S., Norell, M.A. & Sampson, S. (1995) *The Halls of Dinosaurs—A Guide to Saurischians and Ornithischians*. American Museum of Natural History, New York, 100 pp.
- Fanti, F., Currie, P.J. & Badamgarav, D. (2012) New Specimens of *Nemegtomaia* from the Baruungoyot and Nemegt Formations (Late Cretaceous) of Mongolia. *PLoS ONE*, 7(2), e31330.
<http://dx.doi.org/10.1371/journal.pone.0031330>
- Fara, E. (2001) Khermeen-Tsav locality (SMPE) (Cretaceous of Mongolia). Available from: http://paleodb.org/?a=basicCollectionSearch&collection_no=11582 (Accessed 5 August 2013)
- Gerlach, S.A. (1957) Die Nematodenfauna des Sandstrandes an der Küste von Mittelbrasilien (Brasilianische Meeres-Nematoden IV). *Mitteilungen aus dem Museum für Naturkunde in Berlin. Zoologisches Museum und Institut für Spezielle Zoologie (Berlin)*, 33, 411–459.
- Gubin, Y.M. (1999) [Gobiatids (Anura) from the Upper Cretaceous locality Khermeen-Tsav (Gobi Desert, Mongolia)]. *Paleontologicheskii Zhurnal*, 1, 76–87. [in Russian]
- Kundrát, M. (2007) Avian-like attributes of a virtual brain model of the oviraptorid theropod *Conchoraptor gracilis*. *Naturwissenschaften*, 94, 499–504.
<http://dx.doi.org/10.1007/s00114-007-0219-1>
- Longrich, N.R., Currie, P.J. & Dong, Z.-M. (2010) A new oviraptorid (Dinosauria: Theropoda) from the Upper Cretaceous of Bayan Mandahu, Inner Mongolia. *Paleontology*, 53, 945–960.
<http://dx.doi.org/10.1111/j.1475-4983.2010.00968.x>
- Longrich, N.R., Barnes, K., Clark, S. & Millar, L. (2013) Caenagnathidae from the Upper Campanian Aguja Formation of West Texas, and a revision of the Caenagnathidae. *Bulletin of the Peabody Museum of Natural History*, 54 (1), 23–49.
<http://dx.doi.org/10.3374/014.054.0102>
- Lü, J.C. (1999) New material of *Ingenia* (Barsbold, 1981) from the Nemegt Formation of southwestern Mongolia and its phylogenetic relationships among Oviraptorosauria. Unpublished Master's Thesis, Institute of Vertebrate Paleontology and Paleoanthropology, Chinese Academy of Sciences, Beijing, 50 pp.
- Lü, J.C. (2004) *Oviraptorid dinosaurs from southern China*. Unpublished Ph.D. dissertation, Southern Methodist University, Dallas, 264 pp.
- Lü, J.C., Dong, Z.-M., Azuma, Y., Barsbold, R. & Tomida, Y. (2002) Oviraptorosaurs compared to birds. In: Zhou, Z. & Zhang, F. (Eds.), *Proceedings of the 5th Symposium of the Society of Avian Paleontology and Evolution*. Science Press, Beijing, pp. 175–189.
- Lü, J.C., Tomida, Y., Azuma, Y., Dong, Z.M. & Lee, Y.N. (2004) New oviraptorid dinosaur (Dinosauria: Oviraptorosauria) from the Nemegt Formation of southwestern Mongolia. *Bulletin of the Natural Science Museum, Series C (Tokyo)*, 30, 95–130.
- Lü, J.C., Tomida, Y., Azuma, Y., Dong, Z.M. & Lee, Y.N. (2005a) *Nemegtomaia* gen. nov., a new generic name for the oviraptorosaurian dinosaur *Nemegtia* Lu *et al.*, 2004. *Bulletin of the Natural Science Museum, Series C (Tokyo)*, 31, 51.

- Lü, J.C., Huang, D. & Qiu, L.C. (2005b) The pectoral girdle and the forelimb of *Heyuannia* (Dinosauria: Oviraptorosauria). In: Carpenter, K. (Ed.), *The Carnivorous Dinosaurs*. Indiana University Press, Bloomington, pp. 256–273.
- Lü, J.C., Currie, P.J., Xu, L., Zhang, X., Pu, H. & Jia, S. (2013) Chicken-sized oviraptorid dinosaurs from central China and their ontogenetic implications. *Naturwissenschaften*, 100(2), 165–175.
<http://dx.doi.org/10.1007/s00114-012-1007-0>
- Maryńska, T. & Osmólska, H. (1997) The quadrate of oviraptorid dinosaurs. *Acta Palaeontologica Polonica*, 42, 361–371.
- Maryńska, T., Osmólska, H. & Wolsan, M. (2002) Avialan status for Oviraptorosauria. *Acta Palaeontologica Polonica*, 47, 97–116.
- Osborn, H.F. (1924) Three new Theropoda, *Protoceratops* zone, central Mongolia. *American Museum Novitates*, 144, 1–12.
- Osmólska, H., Currie, P.J. & Barsbold, R. (2004) Oviraptorosauria. In: Weishampel, D.B., Dodson, P. & Osmólska, H. (Eds.), *The Dinosauria*. 2nd ed. University of California Press, Berkeley, pp. 165–183.
- Paul, G.S. (1988) *Predatory Dinosaurs of the World: a Complete Illustrated Guide*. Simon and Schuster Co., New York, 464 pp.
- Qiu, L. & Huang, D. (2001) Dinosaur fossils from the Heyuan Basin in Guangdong Province, China. In: Deng, T. & Wang, Y. (Eds.), *Proceedings of the Eighth Annual Meeting of the Chinese Society of Vertebrate Paleontology*. China Ocean Press, Beijing, pp. 59–63.
- Wang, S., Sun, C., Sullivan, C. & Xu, X. (2013) A new oviraptorid (Dinosauria: Theropoda) from the Upper Cretaceous of southern China. *Zootaxa*, 3640 (2), 242–257.
<http://dx.doi.org/10.11646/zootaxa.3640.2.7>
- Webster, D. (1996) Dinosaurs of the Gobi. *National Geographic*, 190, 70–89.
- Wei, X.F., Pu, H.Y., Xu, L., Lui, D. & Lü, J.C. (2013) A new oviraptorid dinosaur (Theropoda: Oviraptorosauria) from the Late Cretaceous of Jiangxi Province, Southern China. *Acta Geologica Sinica (English Edition)*, 87 (4), 899–904.
- Xu, X., Tan, Q.W., Wang, S., Sullivan, C., Hone, D.W.E., Han, F.-L., Ma, Q.-Y., Tan, L. & Xiao, D. (2013) A new oviraptorid from the Upper Cretaceous of Nei Mongol, China, and its stratigraphic implications. *Vertebrata Palasiatica*, 51 (2), 85–101.
- Zanno, L.E. & Sampson, S.D. (2005) A new oviraptorosaur (Theropoda, Maniraptora) from the Late Cretaceous (Campanian) of Utah. *Journal of Vertebrate Paleontology*, 25 (4), 897–904.