

Supporting Information

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Table S1. Oxygen isotope compositions of vertebrate apatites used for this study

Sample N°	Nature	Taxon	Locality Name	Province	Formation	Age	Paleolatitude (°)	$\delta^{18}\text{O}_p$ (‰ V-SMOW)	Data source
LJ10	tooth bulk	theropoda	Lujiatun	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	13.6	this study
L09	bone	Caudipteryx zoui	Zhang Jia Gou	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	15.2	this study
LJ01	tooth enamel	cf. euhelopus sp.	Lujiatun	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	10.1	this study
LJ02	tooth enamel	cf. euhelopus sp.	Lujiatun	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	12.9	this study
LJ03	tooth enamel	cf. euhelopus sp.	Lujiatun	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	14.2	this study
LJ04	tooth enamel	cf. euhelopus sp.	Lujiatun	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	10.6	this study
LJ05	tooth enamel	cf. euhelopus sp.	Lujiatun	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	12.2	this study
L05	tooth bulk	Jimzhousaurus yangi	Bai Cai Gou	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	16	this study
L06	tooth bulk	Jimzhousaurus yangi	Bai Cai Gou	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	15.4	this study
LJ08	tooth bulk	jeholosaurus	Lujiatun	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	15.3	this study
LJ09	skull bone	jeholosaurus	Lujiatun	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	14.7	this study
LJ11	3 bulk teeth	jeholosaurus	Lujiatun	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	11.1	this study
LJ06	tooth bulk	hongshanosaurus houi	Lujiatun	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	14.9	this study
LJ07	mandible bone	hongshanosaurus houi	Lujiatun	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	14.4	this study
L02	shell bone	chelonina	Beipiao	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	13	this study
L17	bone	hyphalosaurus	Hejiaxin	Liaoning	Yixian	Barremian-Early Aptian	41.9(+6.6)/-6.6)	14.3	this study
BDH01	tooth bulk	theropoda	Badaohao	Liaoning	Shahai	Aptian-Albian	42.1(+6.6)/-6.5)	12.7	this study
BDH02	tooth bulk	theropoda	Badaohao	Liaoning	Shahai	Aptian-Albian	42.1(+6.6)/-6.5)	10.8	this study
BDH07	tooth bulk	theropoda	Badaohao	Liaoning	Shahai	Aptian-Albian	42.1(+6.6)/-6.5)	12.9	this study
BDH08	tooth bulk	theropoda	Badaohao	Liaoning	Shahai	Aptian-Albian	42.1(+6.6)/-6.5)	12.4	this study
BDH09	tooth bulk	theropoda	Badaohao	Liaoning	Shahai	Aptian-Albian	42.1(+6.6)/-6.5)	12.4	this study
BDH05	tooth bulk	sauropoda	Badaohao	Liaoning	Shahai	Aptian-Albian	42.1(+6.6)/-6.5)	12.4	this study
BDH06	tooth bulk	sauropoda	Badaohao	Liaoning	Shahai	Aptian-Albian	42.1(+6.6)/-6.5)	12.8	this study
BDH03	tooth bulk	iguanodontian	Badaohao	Liaoning	Shahai	Aptian-Albian	42.1(+6.6)/-6.5)	11.4	this study
BDH04	tooth bulk	ceratopsia	Badaohao	Liaoning	Shahai	Aptian-Albian	42.1(+6.6)/-6.5)	11.4	this study
NH02	tooth bulk	theropoda	Nanhuaung #3	Liaoning	Fuxin	Aptian-Albian	42.1(+6.6)/-6.5)	14.3	this study
NH04	tooth bulk	theropoda	Nanhuaung #3	Liaoning	Fuxin	Aptian-Albian	42.1(+6.6)/-6.5)	11.7	this study
NH06	tooth bulk	theropoda	Nanhuaung #3	Liaoning	Fuxin	Aptian-Albian	42.1(+6.6)/-6.5)	11.4	this study
NH09	tooth bulk	theropoda	Nanhuaung #3	Liaoning	Fuxin	Aptian-Albian	42.1(+6.6)/-6.5)	13.5	this study
NH03	tooth bulk	ankylosauria	Nanhuaung #3	Liaoning	Fuxin	Aptian-Albian	42.1(+6.6)/-6.5)	9.8	this study
NH05	tooth bulk	ankylosauria	Nanhuaung #3	Liaoning	Fuxin	Aptian-Albian	42.1(+6.6)/-6.5)	10.6	this study
NH07	tooth bulk	ankylosauria	Nanhuaung #3	Liaoning	Fuxin	Aptian-Albian	42.1(+6.6)/-6.5)	13.9	this study
NH08	tooth bulk	ankylosauria	Nanhuaung #3	Liaoning	Fuxin	Aptian-Albian	42.1(+6.6)/-6.5)	10.3	this study
NH10	shell bone	chelonina	Nanhuaung #3	Liaoning	Fuxin	Aptian-Albian	42.1(+6.6)/-6.5)	11.5	this study
G06	tooth enamel	theropoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	15.5	this study
G07	tooth enamel	theropoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	13.2	this study
G08	tooth enamel	theropoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	12.6	this study
G22	tooth enamel	theropoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	17.1	this study
G09	tooth enamel	sauropoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	18.8	this study
G10	tooth enamel	sauropoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	18.5	this study
G20	tooth bulk	sauropoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	14.8	this study
G21	tooth bulk	sauropoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	14.9	this study
G23	tooth enamel	sauropoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	17.9	this study
G24	tooth enamel	sauropoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	14	this study
G25	tooth enamel	sauropoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	15.5	this study
G26	tooth enamel	sauropoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	15.9	this study
G11	tooth enamel	ornithopoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	13.4	this study
G12	tooth enamel	ornithopoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	13.9	this study
G13	tooth enamel	ornithopoda	Mazongshan	Gansu	Xinminbao	Aptian-Albian	35.2(+6.4)/-6.6)	15.3	this study

