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Table 1.

Context ID	Elements	Osteological sex	Age group	Palaeopathological summary
Skull A.681	Skull	Indeterminate	Adult	Cribr orbitalia, ectocranial porosity
A17 SID 6	Small fragments of parietal or frontal bone, and left temporal bone, right orbit and zygomatic process, left maxilla with ULPM2, ULM1, ULM2, left mandible with LLC–LLM3, right clavicle, right humerus head, two cervical and three thoracic verts	Indeterminate	Young adult	Disarthrosis, osteoarthritis, and ossification of the ligamentum flava on three thoracic vertebrae. Clavicle with well-developed entheses
A18 SID 7	Cranial vault fragments, maxilla with ULM2, left mandibles (3, incomplete), one with LLM2, one thoracic fragment, right humerus head, left humerus (condyles), proximal left ulna, proximal right radius, one proximal manual phalanx, right tibia diaphysis, right calcaneum	Unobservable	Adult	Oroantral fistula (ULM3), possible rotator cuff disease, ulna and radius with well-developed entheses
A19	Cranium	Indeterminate	Old adult	Ectocranial porosity. Partial atlanto-occipital fusion, cranial blastic lesion
A22 SID 7 – 13	Humerus	Probable Male	Adult	No pathology observed
A22 SID 7 – 14	Humerus	Unobservable	Not assessable	No pathology observed
A22 SID 7 – 16	Occipital squama and left parietal bone	Unobservable	Not assessable	Not assessable
A22 SID 7 – 17	Maxilla and mandible	Unobservable	Adult	Periapical lesion (URM2), linear enamel hypoplasia (one line, URPM1)
A22 SID 7 – 20	Temporal bone	Unobservable	Not assessable	Not assessable
A22 SID 7 – 21	Maxilla and mandible	Unobservable	Old adult	Increased porosity at maxillary palatine process accompanied by irregular deposits of porous compact bone
A22 SID 7 – Warre?	Cranial fragments – sphenoid, zygomatic bones (3), frontal, petrous bones (3), occipital bones (2), left parietal bones (2)	Unobservable	Adult	Ectocranial porosity

A23 SID7	Vertebrae, both humeri, right ulna and both radii, left scaphoid, left 5th metacarpal, two proximal manual phalanges, three intermediate manual phalanges, both femora and tibiae, left talus, two proximal pedal phalanges	Probable male	Adult	Schmorl's nodes. Healed trauma at proximal pedal phalanx, possible dislocation at a manual distal interphalangeal joint. Long bone fragments with well-developed entheses.
A24 SID 7 – Skull 4	Frontal bone	Probable male	Not assessable	Not assessable
A24 SID 7 – Skull 5	Frontal bone	Indeterminate	Not assessable	Not assessable
A24 SID 7 – Skull 8	Frontal and parietal bone fragments	Unobservable	Not assessable	No pathology observed
A24 SID 7	Small fragments of scapular blade, manubrium, right radius, right ulna, 1st right metacarpal, metacarpal head, two cervical, five thoracic and one lumbar vert, ribs, os coxa, sacrum, left fibula, navicular, right cuboid, one metatarsal, one pedal phalanx	Unobservable	Adult	No pathology observed
A28 SID 7	Cranial fragments: right temporal, right parietal, left parietal and occipital bones	Probable male	Not assessable	Not assessable
A30 SID 7 – R1	Pelvis fragments	Male	Young adult	No pathology observed
A30 SID 7 – R2	Pelvis fragments	Unobservable	Old adult	Entheseal changes at the ischial tuberosity and at the iliac crest
A30 SID 7 – L	Pelvis fragment	Unobservable	Old adult	Entheseal changes at the ischial tuberosity and at the iliac crest
A30 SID 7 – additional fragments	1st sacral vertebra, right acromion, right 2nd metacarpal	Unobservable	Adult	No pathology observed
A 33 – Cranium III / ARCHtemp 49	Skull	Indeterminate	Old middle adult	Carious lesion (URM1, mesial), palatine porosity, button osteoma (small benign osteoma)
A70 SID 11	Humerus	Unobservable	Adult	No pathology observed
A71 SID 11	Small fragments – axis, right clavicle, humeri, right ulna, right radius (2), left femur, right femur (2), unsided tibia	Unobservable	Probably adult	Not assessable
A72 SID 11	Femur	Unobservable	Adult	No pathology observed

A73 SID 11	Femur	Unobservable	Adult	No pathology observed
A75 SID 11	Femur	Unobservable	Adult	No pathology observed
ARCHtemp 51	Skull	Male	Young adult	Linear enamel hypoplasia (mandibular canines and premolars), button osteoma
ARCHtemp356	Cranium	Indeterminate	Possible young adult	Not assessable
Femur 9	Femur	Unobservable	Adult	Periarticular osteophytosis at the head and well developed entheses. Raised area at medial aspect.



Table 2.

Context ID	Element	Location	Characteristics
Skull A.681	Left & right parietal, occipital bones	Left parietal bone (5), left mastoid area (2), left/right parietal bone (1), occipital bone (1), occipital/left parietal bone (1)	10 instances of SFT
A19	Left & right parietal bones	Left parietal boss, right parietal boss, right frontal bone	3 instances of BFT
A22 SID 7 – 14	Left humerus	Lateral supracondylar crest	1 instance of SFT
A22 SID 7 – 21	Left mandible	Left gonial angle	Possible BFT
A22 SID 7 – Warre	Left parietal bone	Left parietal bone	1 instance of SFT
A24 SID 7 – Skull 5	Frontal bone	Centre of frontal squama	1 instance of SFT
A28 SID 7	Left parietal bone	Left parietal bone	Possible oblique SFT
ARCHtemp51	Left & right parietal bones	Left parietal boss, right parietal boss	2 instances of SFT
Femur 9	Right femur	Proximal $\frac{1}{3}$ of lateral aspect	1 instance of SFT

Table 3.

<b>Harvard genetic ID</b>	<b>GENLAB code</b>	<b>Context ID</b>	<b>Element</b>	<b>SNPs hit on autosomal targets on 1240k snpset</b>	<b>Molecular Sex</b>	<b>Y haplogroup</b>	<b>mtDNA haplogroup</b>
I11142	1	A17 SID6	Left petrous	758,912	M	R1b1a1b1a1a2c1a6a1	H3b+16129
I11143	2	A22 SID7, box 20	Right petrous	762,738	M	R1b1a1b1a1a2a	H3b+16129
I11991	3 & 5	A22 SID7 & A22 SID7, skull 15	Left & Right petrous	940,694	M	R1b1a1b1a1a2c1	H3b+16129
I11992	4 & 11	A22 SID7 & A22 SID7 – 19	Left petrous & LRPM2	917,328	M	R1b1a1b1a1a2c1	H3b+16129
I13726	6 & 10	A18 SID7 & A22 SID7 – 18	Right petrous & LRM2	841,613	M	R1b1a1b1a1a2c1	H13a1a1
I16596	7	box 482, ARCHtemp51	URM3	6,352	M	-	H3b+16129
I13681	8	A22 SID7 – 21	LRM2	6,431	M	-	H3b+16129
I16598	9	A22 SID7 – 6	LLM2	-	-	-	-

Table 4.

Context ID	GENLAB code	Element	Raw Date (BP)	Calibrated date (1 $\sigma$ )	Calibrated date (2 $\sigma$ )	$\delta^{13}\text{C}$ relative to VPDB	$\delta^{15}\text{N}$ relative to air	C/N ratio	Lab code
A17 SID6	1	Left petrous	2103 $\pm$ 27	161–55 cal BCE	197–44 cal BCE	-20.7 ‰	11.6 ‰	3.6	SUERC-94960
A22 SID7, box 20	2	Right petrous	2146 $\pm$ 30	344–111 cal BCE	352–53 cal BCE	-20.5 ‰	12.3 ‰	3.5	SUERC-94961
A22 SID7	3	Left petrous	2133 $\pm$ 30	337–104 cal BCE	349–50 cal BCE	-20.4 ‰	12.3 ‰	3.4	SUERC-94962
A22 SID7	4	Left petrous	2122 $\pm$ 30	193–57 cal BCE	343–50 cal BCE	-20.7 ‰	11.5 ‰	3.4	SUERC-94963
A18 SID7	6	Right petrous	2141 $\pm$ 30	342–107 cal BCE	351–52 cal BCE	-20.1 ‰	12.1 ‰	3.4	SUERC-94964

Figure 1

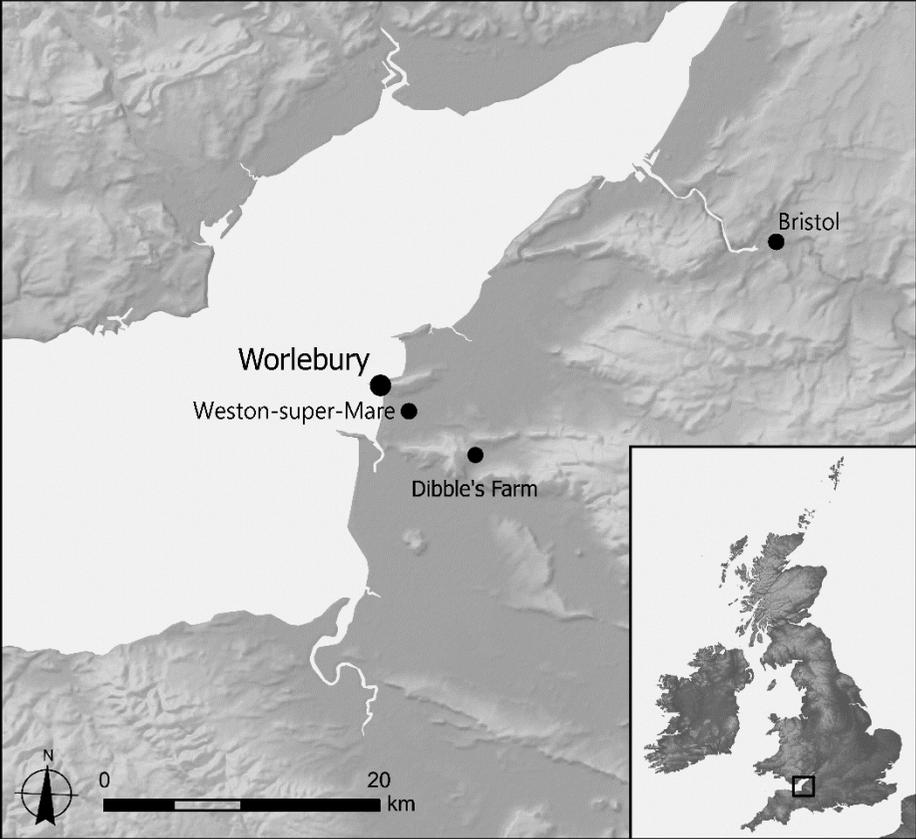


Figure 2



Figure 3

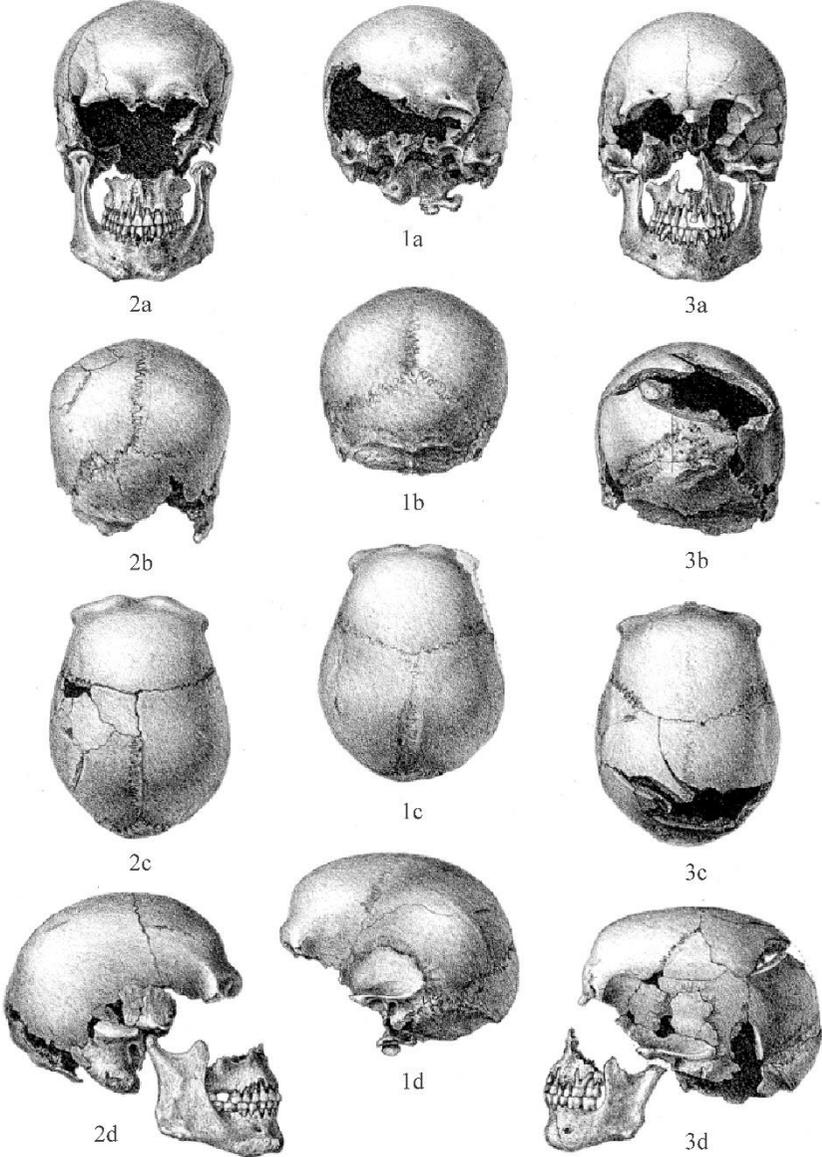


Figure 4

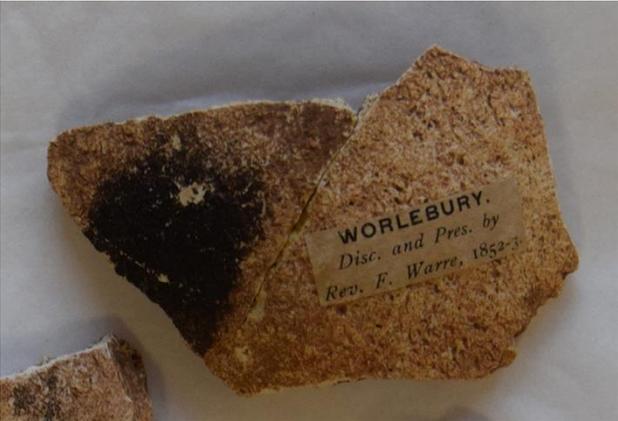


Figure 5



Figure 6

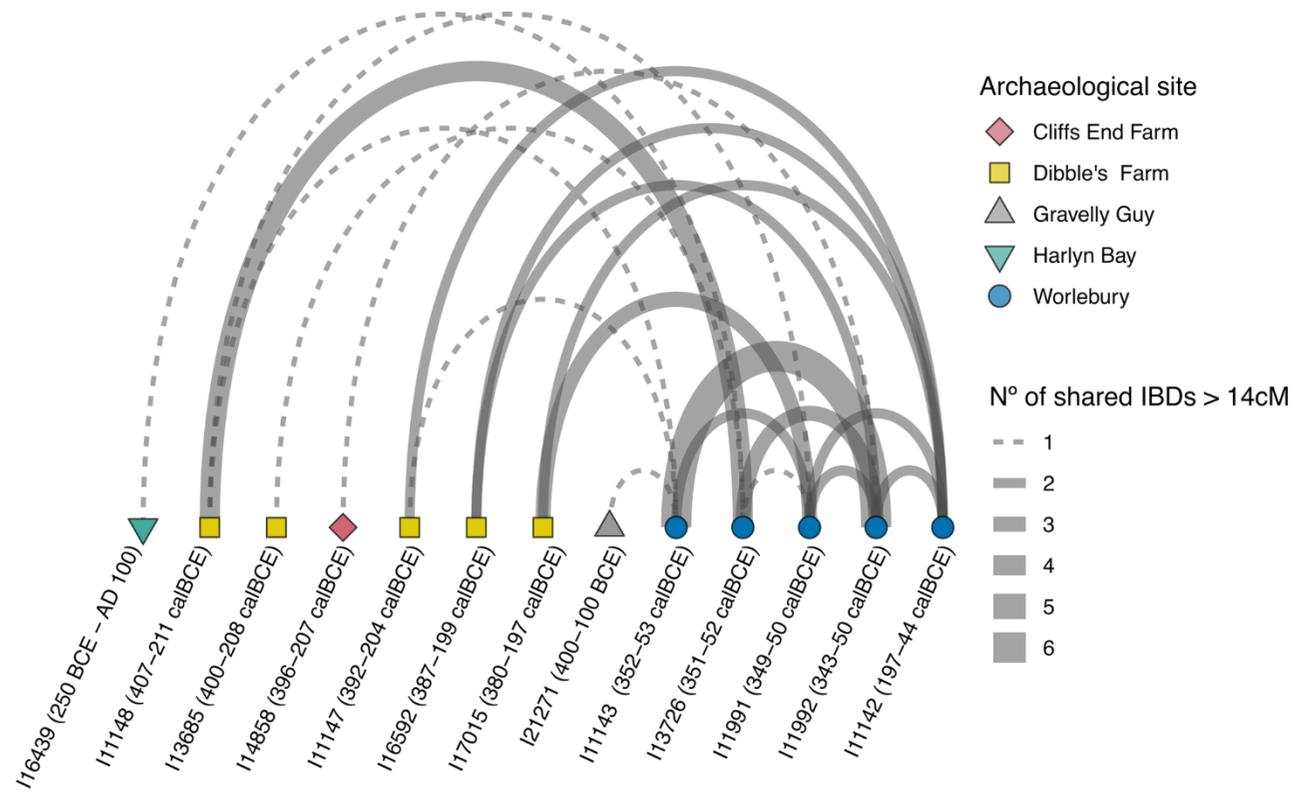


Figure 7

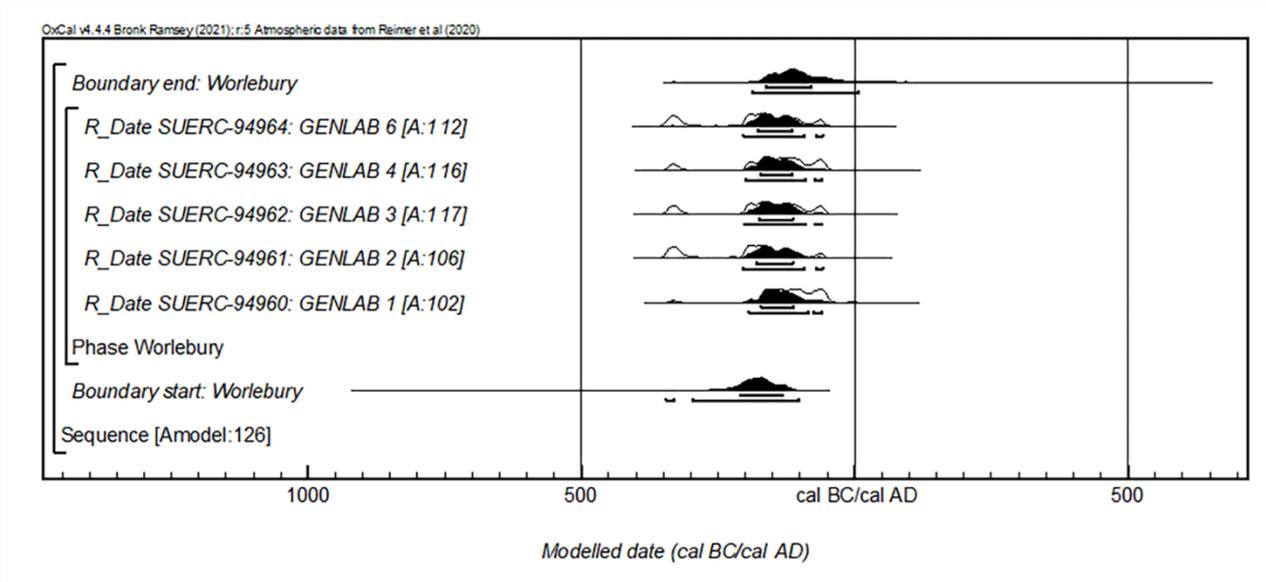


Figure 8

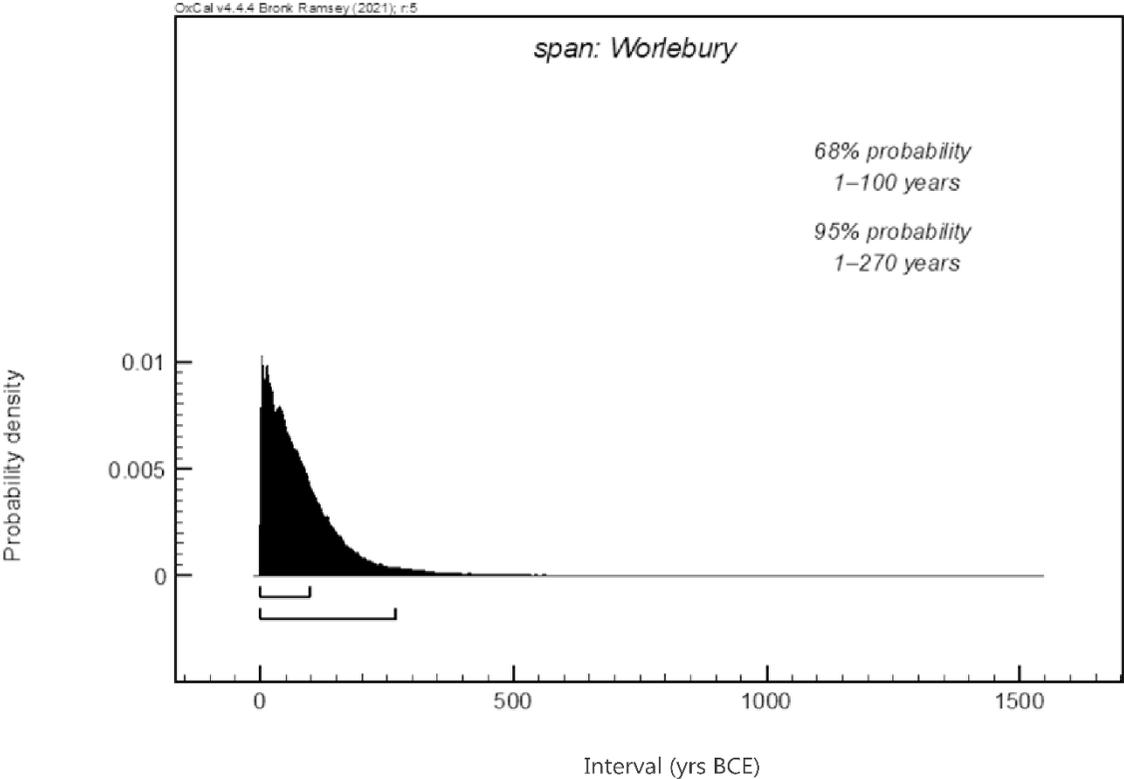


Figure 9

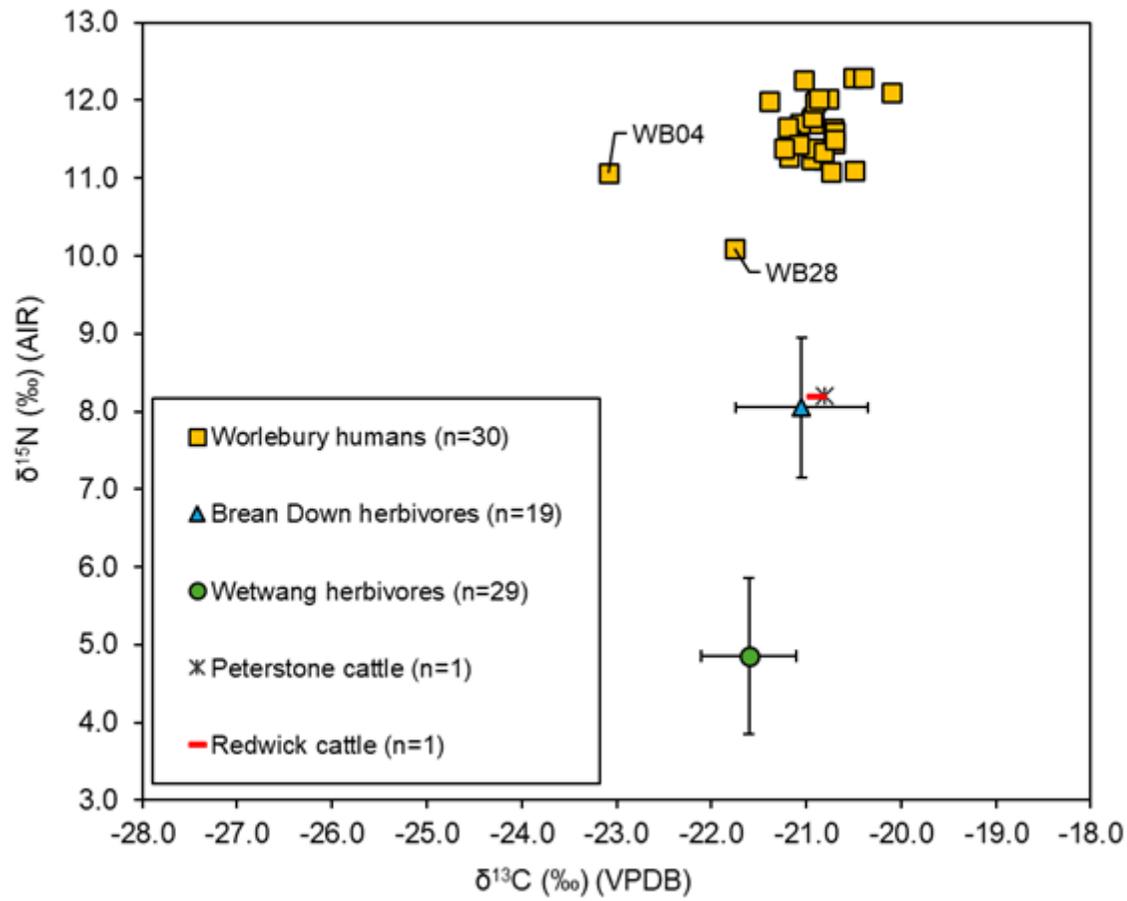


Figure 10

