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1 Table S1: Stable isotope values on bone collagen from archaeological animal samples from Hofstaðir.

Lab ID	Species	Common name	$\delta^{13}\text{C}$ [‰]	$\delta^{15}\text{N}$ [‰]	$\delta^{34}\text{S}$ [‰]	C Amt [%]	N Amt [%]	S Amt [%]	Atomic C:N ratio	Atomic C:S ratio	Atomic N:S ratio
GUsi-2750	<i>Capra hircus</i>	Goat	-21.5	1.0	11.8	41.6	14.9	0.31	3.3	362	111
GUsi-2751	<i>Capra hircus</i>	Goat	-21.1	0.5	13.5	43.9	15.7	0.31	3.3	381	117
GUsi-2752	<i>Capra hircus</i>	Goat	-21.7	1.0	14.0	43.1	15.5	0.30	3.2	384	118
GUsi-2753	<i>Ovis aries</i>	Sheep	-21.1	1.5	10.4	41.5	15.1	0.30	3.2	375	117
GUsi-2754	<i>Ovis aries</i>	Sheep	-21.4	1.1	11.5	41.9	15.1	0.32	3.2	349	108
GUsi-2755	<i>Ovis aries</i>	Sheep	-21.0	3.1	8.8	38.0	13.8	0.30	3.2	338	105
GUsi-2756	<i>Ovis aries</i>	Sheep	-21.3	2.4	9.7	40.0	14.5	0.30	3.2	356	111
GUsi-2757	<i>Ovis aries</i>	Sheep	-20.8	1.6	10.2	42.3	15.4	0.30	3.2	379	118
GUsi-2758	<i>Ovis aries</i>	Sheep	-22.1	0.2	10.0	20.7	6.7	0.26	3.6	213	59
GUsi-2759	<i>Ovis aries</i>	Sheep	-21.4	0.2	18.5	41.5	15.0	0.31	3.2	352	109
GUsi-2760	<i>Ovis aries</i>	Sheep	-21.1	1.7	12.6	40.9	14.9	0.29	3.2	376	118
GUsi-2761	<i>Ovis aries</i>	Sheep	-21.1	1.3	13.1	39.1	14.2	0.32	3.2	331	103

GUsi-2762	<i>Ovis aries</i>	Sheep	-21.8	1.9	12.6	41.3	15.0	0.30	3.2	371	115
GUsi-2763	<i>Equus sp.</i>	Horse	-21.9	2.0	10.3	41.0	14.5	0.30	3.3	367	111
GUsi-2764	<i>Equus sp.</i>	Horse	-21.4	2.5	10.0	40.5	14.6	0.23	3.2	463	143
GUsi-2765	<i>Equus sp.</i>	Horse	-22.3	2.2	10.0	24.0	8.3	0.19	3.4	333	99
GUsi-2766	<i>Equus sp.</i>	Horse	-22.2	2.2	10.7	30.3	10.3	0.21	3.4	391	114
GUsi-2767	<i>Equus sp.</i>	Horse	-22.1	3.7	10.5	33.5	12.2	0.22	3.2	401	125
GUsi-2768	<i>Equus sp.</i>	Horse	-22.6	1.8	9.9	21.3	7.1	0.19	3.5	293	84
GUsi-2769	<i>Equus sp.</i>	Horse	-21.9	1.2	11.9	43.4	15.8	0.26	3.2	447	139
GUsi-2770	<i>Bos taurus</i>	Cow	-21.6	2.5	8.8	33.3	11.6	0.22	3.4	400	119
GUsi-2771	<i>Bos taurus</i>	Cow	-21.6	2.1	10.6	37.6	13.3	0.22	3.3	456	139
GUsi-2772	<i>Bos taurus</i>	Cow	-22.1	-1.0	16.6	28.8	10.3	0.23	3.3	341	105
GUsi-2773	<i>Bos taurus</i>	Cow	-21.9	2.1	13.3	12.2	3.9	0.16	3.6	205	57
GUsi-2774	<i>Bos taurus</i>	Cow	-21.3	3.7	8.3	41.4	15.1	0.21	3.2	539	168
GUsi-2775	<i>Bos taurus</i>	Cow	-22.4	1.9	13.3	27.5	9.5	0.25	3.4	295	87
GUsi-2776	<i>Bos taurus</i>	Cow	-21.6	0.9	11.0	35.6	12.9	0.25	3.2	376	117
GUsi-2777	<i>Bos taurus</i>	Cow	-21.8	3.2	9.6	18.9	6.3	0.19	3.5	267	76

GUsi-2778	<i>Bos taurus</i>	Cow	-22.2	2.2	11.7	35.7	12.2	0.25	3.4	380	112
GUsi-2779	<i>Bos taurus</i>	Cow	-21.6	2.7	8.3	30.2	10.8	0.24	3.3	339	104
GUsi-2780	<i>Sus scrofa</i>	Domestic pig	-21.1	4.2	12.7	39.5	13.7	0.27	3.4	387	115
GUsi-2781	<i>Sus scrofa</i>	Domestic pig	-22.4	0.9	9.2	42.8	15.3	0.28	3.3	407	125
GUsi-2782	<i>Sus scrofa</i>	Domestic pig	-18.8	6.5	9.0	42.5	15.4	0.27	3.2	419	130
GUsi-2783	<i>Sus scrofa</i>	Domestic pig	-19.1	6.2	9.7	42.2	15.3	0.27	3.2	411	127
GUsi-2785	<i>Sus scrofa</i>	Domestic pig	-21.3	5.6	11.8	44.5	16.2	0.28	3.2	426	133
GUsi-2786	<i>Sus scrofa</i>	Domestic pig	-20.3	6.3	10.6	37.1	13.3	0.26	3.2	374	115
GUsi-2787	<i>Sus scrofa</i>	Domestic pig	-19.0	8.6	11.0	45.2	16.5	0.28	3.2	426	133
GUsi-2788	<i>Sus scrofa</i>	Domestic pig	-18.2	8.6	7.4	42.6	15.0	0.28	3.3	408	123
GUsi-2789	<i>Sus scrofa</i>	Domestic pig	-19.5	4.8	12.7	39.5	14.5	0.25	3.2	417	131

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1 Table S2: Stable isotope values on human bone collagen of archaeological samples from Hofstaðir. *Previously published data (Sayle et al.,
 2 2014).

Lab ID	Skelton ID	Sex	Age	Burial group	$\delta^{13}\text{C}$ [‰]	$\delta^{15}\text{N}$ [‰]	$\delta^{34}\text{S}$ [‰]	C Amt [%]	N Amt [%]	S Amt [%]	Atomic C:N ratio	Atomic C:S ratio	Atomic N:S ratio
SUERC-44824	SK001	Female	45+	1746	-19.7	8.8	11.8	43.2	15.6	0.28	3.2	406	125
SUERC-43991	SK002	Female	45+	1747	-19.5	9.9	11.2	41.0	14.7	0.30	3.3	359	110
SUERC-43992	SK003	Female	45+	1747	-19.9	8.9	12.0	43.6	15.6	0.30	3.3	390	119
SUERC-41973	SK004	Female	35-45	1749	-19.0	10.2	8.2	40.4	14.2	0.31	3.3	486	146
SUERC-43993	SK005	Female	18-25	1747	-19.7	10.0	11.0	43.0	15.4	0.32	3.3	361	111
SUERC-43994*	SK007	Female	35-45	1746	-19.2	10.6	12.3	42.7	15.2	0.33	3.3	344	105
SUERC-41974	SK008	Male	35-45	1747	-19.7	9.4	14.1	42.9	15.3	0.30	3.3	382	117
SUERC-39947*	SK009	Female	25-35	1746	-18.7	12.3	13.8	41.3	14.8	0.18	3.3	612	188
SUERC-43995	SK010	Female	45+	1747	-18.9	10.3	13.1	42.0	15.1	0.31	3.2	363	112
SUERC-39951	SK011	Female	35-45	1747	-19.8	9.8	12.8	40.3	14.5	0.18	3.2	605	187
SUERC-43996	SK012	Female	35-45	1746	-19.3	10.1	12.9	42.1	15.1	0.30	3.3	374	115

SUERC-41975*	SK013	Female	35-45	1747	-20.1	7.4	11.6	40.3	14.4	0.20	3.3	537	164
SUERC-43997	SK014	Female	35-45	1747	-19.7	9.8	12.6	42.3	15.2	0.28	3.2	399	123
SUERC-44001	SK015	Female	45+	1747	-20.0	9.7	12.8	41.4	14.7	0.29	3.3	376	115
SUERC-39952*	SK016	Female	18-25	1746	-17.3	10.3	5.5	41.0	14.8	0.18	3.2	615	190
SUERC-39953	SK017	Female	18-25	1747	-19.9	9.7	12.8	39.5	13.9	0.18	3.3	570	172
SUERC-39954	SK018	Male	45+	1750	-19.5	9.7	8.3	41.7	14.2	0.23	3.4	481	141
SUERC-44002	SK019	Female	45+	1750	-19.2	9.8	7.9	40.9	14.4	0.26	3.3	421	127
SUERC-44003	SK020	Male	45+	1748	-18.9	9.1	7.9	43.0	15.3	0.24	3.3	480	146
SUERC-41976	SK021	Female	35-45	1746	-19.9	10.0	10.0	43.3	15.5	0.34	3.3	338	104
SUERC-41977	SK022	Male	45+	1747	-19.5	8.8	13.6	38.5	13.5	0.22	3.3	468	141
SUERC-44004	SK024	Male	35-45	1746	-20.1	9.2	11.1	40.3	14.5	0.24	3.2	455	140
SUERC-44005	SK025	Male	35-45	1748	-19.1	10.2	12.8	36.2	12.7	0.24	3.3	411	124
SUERC-44006	SK026	Female	25-35	1746	-19.6	10.4	12.8	38.1	13.7	0.22	3.2	455	141
SUERC-41981	SK027	Female	45+	1746	-20.2	9.0	9.7	32.6	11.6	0.19	3.3	456	139
SUERC-44007	SK028	Male	?	1747	-19.4	11.2	11.5	37.6	12.8	0.20	3.4	489	142
SUERC-44110	SK029	Male	35-45	1746	-19.3	9.6	9.1	37.2	13.3	0.18	3.3	541	166

SUERC-44111	SK033	Male	45+	1748	-19.4	9.4	9.3	40.8	14.4	0.20	3.3	534	162
SUERC-44112	SK038	Male	45+	5086	-19.9	8.7	9.7	39.8	14.4	0.18	3.2	602	187
SUERC-44113	SK039	Male	35-45	1905	-20.1	8.5	10.7	39.4	14.1	0.18	3.3	582	178
SUERC-44114	SK043	Male	?	1746	-19.9	8.5	9.6	36.5	13.0	0.19	3.3	511	156
SUERC-44115	SK045	Male	35-45	1748	-20.0	8.5	9.7	34.4	12.0	0.27	3.3	344	103
SUERC-41982*	SK047	Female	35-45	1746	-20.2	8.5	9.8	42.8	15.4	0.26	3.2	433	134
SUERC-44119	SK048	Male	45+	1746	-19.8	9.4	13.0	41.5	15.0	0.22	3.2	507	157
SUERC-41983	SK051	Male	35-45	1907	-19.2	8.9	8.3	39.0	13.8	0.24	3.3	439	133
SUERC-44120	SK052	Female	45+	1747	-19.9	9.3	9.5	39.8	14.4	0.25	3.2	426	132
SUERC-39955*	SK053	Male	35-45	1746	-20.1	7.7	10.3	40.3	14.5	0.19	3.2	555	171
SUERC-44121	SK054	Male	35-45	1748	-19.5	10.3	11.0	34.1	11.6	0.22	3.4	406	118
SUERC-44122*	SK056	Female	35-45	1747	-19.3	10.9	14.9	41.9	15.0	0.22	3.3	498	153
SUERC-41984	SK057	Male	45+	5086	-20.0	9.7	12.7	42.5	14.8	0.21	3.3	537	161
SUERC-41985	SK058	Male	?	1746	-19.0	9.8	7.5	42.2	14.5	0.20	3.4	572	169
SUERC-39956*	SK061	Female	25-35	1907	-19.0	10.6	6.3	31.4	10.7	0.25	3.4	331	96
SUERC-44123	SK065	Male	18-25	5086	-19.6	10.1	11.6	39.1	13.8	0.19	3.3	541	164

SUERC-39957*	SK066	Female	45+	1746	-18.0	11.2	6.6	44.9	15.6	0.19	3.3	616	184
SUERC-44124	SK075	Female	45+	5086	-19.5	10.1	14.8	42.3	14.7	0.18	3.4	624	186
SUERC-44125	SK076	Male	45+	5086	-19.2	9.6	9.8	41.6	14.3	0.16	3.4	688	203

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