

Sequential analyses of bovid tooth enamel and dentine collagen ($\delta^{18}\text{O}$, $\delta^{13}\text{C}$, $\delta^{15}\text{N}$): new insights into animal husbandry between the Late Neolithic and the Early Bronze Age at Tana del Barletta (Ligurian Prealps)

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Sample values (enamel bioapatite)

Archaeological samples				
Tooth	$\delta^{13}\text{C}_{\text{VPDB}} (\text{‰})$	$\delta^{18}\text{O}_{\text{VPDB}} (\text{‰})$	ERJ dist. (mm)	Mass 44 ampl. (mV)
TDB-1/1	-11.71	-5.55	2.5	509
TDB-1/2	-12.44	-5.85	5.7	609
TDB-1/3	-12.50	-6.38	8.4	593
TDB-1/4	-12.26	-6.10	11.7	926
TDB-1/5	-12.46	-5.23	14.6	1088
TDB-1/6	-12.45	-5.29	17.8	1101
TDB-1/7	-12.26	-4.71	21.3	1020
TDB-1/8	-12.38	-4.12	24.5	891
TDB-1/9	-12.31	-8.10*	27.6	400
TDB-1/10	-12.29	-3.89	30.8	899
TDB-1/11	-12.43	-5.27	33.6	683
TDB-1/12	-12.53**	-6.84**	37.2	339
TDB-2/1	-11.38	-5.26	2.0	1281
TDB-2/2	-11.96	-5.26	7.1	926
TDB-2/3	-11.36	-5.49	12.1	1104
TDB-2/4	-12.25	-5.07	16.1	1079
TDB-2/5	-11.94	-5.16	20.9	936
TDB-2/6	-12.34	-4.27	25.4	1057
TDB-2/7	-12.02	-4.99	29.1	756
TDB-2/8	-12.20	-5.05	33.0	555
TDB-2/9	-12.45	-5.68	38.1	586
TDB-3/1	-11.26	-6.56	2.8	568
TDB-3/2	n/a	n/a	6.0	59

TDB-3/3	-12.22	-5.66	9.9	564
TDB-3/4	-12.37	-15.68*	14.2	716
TDB-3/5	-13.10**	-6.13**	17.8**	133
TDB-3/6	-13.08	-5.69	21.3	778
TDB-3/7	-13.46	-5.66	26.0	1014
TDB-4/1	-11.64	-4.62	2.9	944
TDB-4/2	-11.62	-4.75	6.0	1244
TDB-4/3	-12.50	-5.43	10.0	988
TDB-4/4	-12.40**	-14.90**	13.5**	191
TDB-4/5	-12.73	-6.00	17.3	968
TDB-4/6	-12.61	-6.54	20.6	991
TDB-4/7	-12.56	-6.75	24.9	1084
TDB-5/1	-12.75	-7.33	2.7	1069
TDB-5/2	-12.91	-6.92	6.5	804
TDB-5/3	-12.20**	-19.20**	10.5**	91
TDB-5/4	-12.62	-7.49	13.9	959
TDB-5/5	-12.22	-6.87	17.4	924
TDB-5/6	-12.69	-7.30	21.7	959
TDB-5/7	-12.61	-6.50	26.1	1086
TDB-5/8	-12.60**	-18.40**	30.7**	96
TDB-5/9	-12.43	-6.42	34.4	1108
TDB-6/1	-13.28	-8.08	3.8	1213
TDB-6/2	-13.72	-8.57	8.3	941
TDB-6/3	-13.49	-8.10	12.2	1056
TDB-6/4	-13.86	-8.01	16.1	1002
TDB-6/5	-13.71	-7.41	18.9	975
TDB-6/6	-14.33	-7.18	22.3	901
TDB-6/7	-14.57	-7.64	25.8	729
TDB-6/8	-14.58	-7.95	29.5	949
TDB-7/1	-12.33	-3.21	3.15	952
TDB-7/2	-12.92	-3.03	7.05	820
TDB-7/3	-11.90	-2.23	10.2	927
TDB-7/4	-12.26	-4.42***	13.4	499
TDB-7/5	-12.15	-1.20	16.3	1066
TDB-7/6	-13.16	-1.23	18.6	1061
TDB-7/7	-13.25	-1.20	22.5	1215
TDB-8/1	-12.23	-3.60	4.0	961
TDB-8/2	-12.55	-2.56	8.3	1119
TDB-8/3	-13.09	-3.15	13.9	790
TDB-8/4	-12.94	-2.80	18.9	1070
TDB-8/5	-13.28	-2.92	23.0	965
TDB-8/6	-13.42	-3.00	27.4	886
TDB-9/1	-14.60	-5.60	2.0	918
TDB-9/2	-13.50	-5.16	4.4	1040
TDB-9/3	-13.76	-4.77	7.0	1099
TDB-10/1	-14.30	-7.80	1.6	1165
TDB-10/2	-13.66	-7.37	4.6	1062

TDB-10/3	-13.34	-5.82	7.6	1169
TDB-10/4	-13.48	-5.21	11.6	1073

Modern calf				
Tooth	$\delta^{13}\text{C}_{\text{VPDB}} (\text{‰})$	$\delta^{18}\text{O}_{\text{VPDB}} (\text{‰})$	ERJ dist. (mm)	Mass 44 ampl. (mV)
M1/1-right mxl.	-11.51	-7.29	8.5	839
M1/2-right mxl.	-10.42	-5.43	13.3	1267
M1/3-right mxl.	-10.59	-5.66	16.4	1129
M1/4-right mxl.	-10.68	-6.33	19.8	1013
M1/5-right mxl.	-10.19	-6.77	22.6	871
M1/6-right mxl.	-10.35	-7.83	25.7	927
M1/7-right mxl.	-11.31	-8.24	27.9	967
M1/8-right mxl.	-11.04	-10.69	30.4	879
M1/9-right mxl.	-11.11	-9.87	33.5	825
M1/10-right mxl.	-10.43	-10.18	35.3	854
M1/11-right mxl.	-10.36	-10.25	38.0	682
M1/1-right mnd.	-10.07	-6.04	4.0	845
M1/2-right mnd.	-10.61	-6.38	7.9	992
M1/3-right mnd.	-10.49	-6.64	12.5	742
M1/4-right mnd.	-10.85	-7.73	16.7	721
M1/5-right mnd.	-10.65	-9.38	21.0	610
M1/6-right mnd.	-10.67	-9.42	26.8	1004
M1/7-right mnd.	-10.56	-10.18	31.8	838
M1/8-right mnd.	-10.41	-10.61	35.6	733
M1/1-left mxl.	-10.56	-5.37	8.0	940
M1/2-left mxl.	-10.36	-5.90	12.5	1039
M1/3-left mxl.	-10.48	-6.48	15.5	1160
M1/4-left mxl.	-10.37	-6.81	18.6	959
M1/5-left mxl.	-10.83	-7.43	21.3	1185
M1/6-left mxl.	-10.94	-8.17	25.0	1036
M1/7-left mxl.	-10.72	-8.63	28.5	1031
M1/8-left mxl.	-10.58	-9.40	31.3	1050
M1/9-left mxl.	-10.92	-9.76	34.7	1095
M1/10-left mxl.	-10.77	-10.81	38.6	950
M1/1-left mnd.	-10.94	-6.27	4.4	913
M1/2-left mnd.	-10.25	-6.79	8.0	889
M1/3-left mnd.	-10.30	-7.40	12.6	1006
M1/4-left mnd.	-10.39	-8.08	16.8	1100
M1/5-left mnd.	-10.59	-8.66	19.8	1001
M1/6-left mnd.	-11.08	-9.16	22.9	910
M1/7-left mnd.	-10.91	-9.84	26.4	902
M1/8-left mnd.	-10.88	-10.55	29.9	626
M1/9-left mnd.	-11.50	-11.03	33.3	867
M1/10-left mnd.	-10.79	-10.87	36.7	882

M1/11-left mnd.	-10.52	-11.08	39.6	1067
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* = measurements not included in the plot of fig. 5 as considered unreliable

** = measurement excluded due too low mass 44 amplitude

*** = measurement indicated by an asterisk in the plot of fig. 5 as possibly contaminated by dentine