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Pre-Lessepsian isotopic niche spaces: using paleoecological proxies to assess the impact of ongoing bioinvasions on fishes in the eastern Mediterranean Sea

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Table S1. Overview of the archaeological fish bones sampled in this study, (Fuller *et al.*, 2020), and (Schutkowski & Ogden, 2011) as well as the trophic groups assigned to each taxa.

Taxa	This Study (all sites)		Fuller *et al.*, 2020		Schutkowski & Ogden (2012)		Trophic Group	$\delta^{13}C$		$\delta^{15}N$	
	Sampled	Successful	Sampled	Successful	Sampled	Successful		Average	S.D.	Average	S.D.
Balistes capriscus	12	9	3	2	-	-	BC	-8.88	1.72	7.62	1.21
Belonidae	-	-	1	1	-	-	PI	-	-	-	-
Carangidae	6	2	7	2	-	-	PI	-10.56	2.66	9.32	2.26
Seriola dumerili	-	-	7	0	3	3	PI	-10.23	0.67	8.8	0.87
Dicentrarchus sp.	4	1	7	2	-	-	GC	-9.17	1.07	7.46	0.95
Dentex sp.	1	0	1	0	-	-	GC	-	-	-	-
Pagrus sp.	11	8	9	2	1	1	GC	-9.3	1.15	7.35	1.01
Sparus auratus	6	3	20	5	2	2	O	-8.8	1.39	6.39	1.56
Sparidae (indet.)	27	20	9	3	-	-	GC	-8.77	1.31	7.31	1.18
Epinephelidae and Serranidae	150	84	52	5	3	3	GC/PI[‡]	-8.61	1.16	8.82	0.82
Rajiformes	4	3	3	2	-	-	GC/PI[§]	-9.73	1.55	8.08	2.38
Carcharinidae	5	3	3	2	-	-	PI	-11.11	1.26	10.03	1.78
Sphyrinidae	-	-	17	2	3	2	PI	-11.58	1.72	9.83	1.09
Scombridae	2	2	3	0	3	0	GC	-11.71	1.21	7.22	0.73
Mugilidae	2	2	14	4[†]	3	2*	O	-11.08	2.38	7.06	3.25
Argyrosomus regius	-	-	10	3	3	1	PI	-9.48	0.95	10.18	0.95
Sciaenidae	-	-	1	1	-	-	BC	-	-	-	-
Totals	**230**	**137**	**167**	**32**	**21**	**12**					

[†]Not all fishes from (Fuller *et al.*, 2020) and (Schutkowski & Ogden, 2011) were included in this analysis, fishes which had $\delta^{13}C$ values consistent with a freshwater signal were excluded to avoid skewing the data and due to the focus of our work being on marine environments.
[‡]Trophic group classification determined by estimated size when possible.
[§]Trophic group informed by $\delta^{15}N$ values.

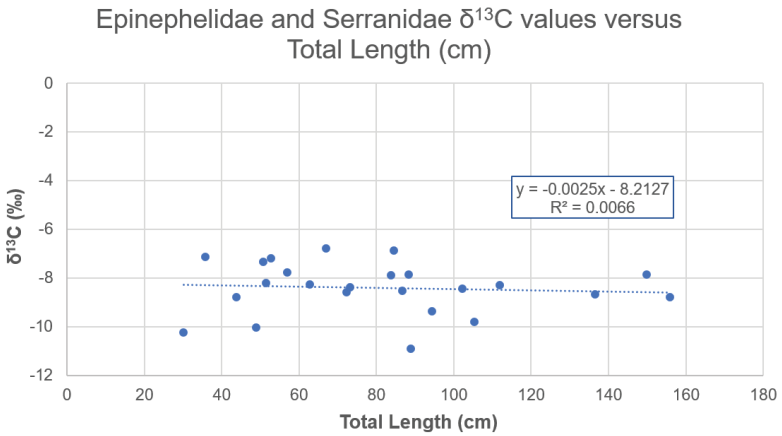

Fig. S1: Comparison of Total Length (cm) and $\delta^{13}C$ values of Epinephelidae and Serranidae from Kinet Höyük, Tell Fadous, and Tell el-Burak.

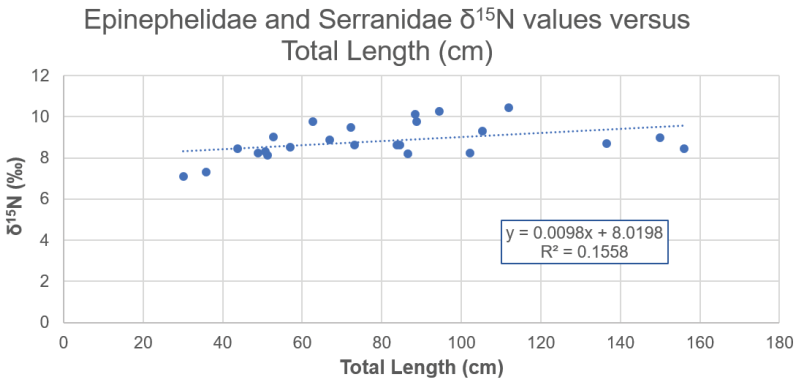

Fig. S2: Comparison of Total Length (cm) and δ15N values of Epinephelidae and Serranidae from Kinet Höyük, Tell Fadous, and Tell el-Burak.

Table S2. INS at various contour levels, IPI, and sample size of trophic groups of marine fishes from eastern Mediterranean archeological sites calculated using the KUD model in rKIN.

Taxa	Contour Level				IPI	Sample Size
	40%	50%	75%	95%		
Benthic Carnivores (BC)	6.63	9.47	20.3	41.9	6.32	12
Generalise Carnivores (GC)	4.58	6.44	12.89	27.65	6.04	90
Omnivores (O)	10.75	15.33	32.34	62.49	5.81	14
Piscivorous (PI)	4.57	7.49	16.06	37.58	8.22	51

Table S3. Overlap of INS of archaeologically derived trophic groups of marine fishes utilising the KUD model in rKIN.

	Benthic Carnivores (BC)				**Generalised Carnivores (GC)**				**Omnivores (O)**				**Piscivores (PI)**			
Contour Level	**40%**	**50%**	**75%**	**95%**	**40%**	**50%**	**75%**	**95%**	**40%**	**50%**	**75%**	**95%**	**40%**	**50%**	**75%**	**95%**
Benthic Carnivores (BC)	-	-	-	-	0.20	0.30	0.39	0.55	0.27	0.60	0.57	0.86	0.12	0.19	0.40	0.55
Generalised Carnivores (GC)	0.29	0.44	0.61	0.83	-	-	-	-	0.09	0.66	0.55	0.85	0.71	0.66	0.66	0.67
Ominvores (O)	0.17	0.22	0.36	0.57	0.04	0.14	0.22	0.38	-	-	-	-	0.02	0.07	0.16	0.39
Piscivores (PI)	0.15	0.23	0.50	0.61	0.61	0.57	0.53	0.49	0.04	0.12	0.33	0.65	-	-	-	-
Averages of all trophic groups	0.20	0.30	0.49	0.67	0.28	0.34	0.38	0.47	0.13	0.46	0.48	0.79	0.28	0.31	0.41	0.54

Table S4. Full quality control data pertaining to fish bones samples and analysed. Highlighted in light grey and *italicised* samples indicate unacceptable C% (minimum 13% by weight), N% (minimum 4.8% by weight), C:N ratio (outside of 2.9-3.6), or too much error between duplicates (indicated with * next to the problematic quality control criteria). Highlighted in grey and bold results indicate collagen yields which were too low or too low of quality for analysis.

** Due to low collagen yield, this sample could not be run in duplicate however due to meeting quality control criteria, it was included in our analysis.

Site	Taxa	Estimated SL (cm)	Estimated TL (cm)	Time Period	Isotope Lab	Lot No. (BioArCh Database)	Sample ID	CIO Sample Number	Sample Weight (mg)	Collagen Yield (mg)	Collagen yield (%)	C %	N %	C:N ratio	δ13C‰	δ15N‰
Kinet Höyük	*Balistes capriscus*			MIA	BioArCh	20166	7905		794.1	20.8	2.62	38.87	14.38	3.15	-6.23	7.93
Kinet Höyük	*Balistes capriscus*			LIA	BioArCh	20166	8136		474.9	41.4	8.72	40.36	15.1	3.12	-7.59	6.76
Tell Fadous	*Balistes capriscus*			EBIII	BioArCh	20164	11003.1		627.5	36.5	5.82	36.41	13.35	3.18	-8.93	6.74
Kinet Höyük	*Balistes capriscus*			MBA	BioArCh	20166	12343.1		452.1	9.2	2.03	41.33	14.97	3.23	-8.24	8.83
Kinet Höyük	*Balistes capriscus*			LBA	BioArCh	20166	22036.1		662	34.4	5.20	35.08	13.06	3.13	-9.05	6.84
Kinet Höyük	*Balistes capriscus*			LBA	BioArCh	20166	22886		743.7	51.6	6.94	39.45	14.66	3.14	-7.92	6.76
Kinet Höyük	*Balistes capriscus*			LBA	BioArCh	20166	23596		663.2	32.9	4.96	32.98	12.27	3.14	-8.39	8.53
Kinet Höyük	*Balistes capriscus*			LBII	BioArCh	20166	23780.1		256.8	10.67	4.15	30.56	11.36	3.14	-8.2	6.64
Tell Fadous	*Balistes capriscus*			EBIII	BioArCh	20164	30128		772.1	9.6	1.24	15.67	5.56	3.29	-9.2	6.04
Kinet Höyük	***Balistes capriscus***			**MIA**	**CIO**		**4948**	**75194**	**1083.68**	**-**	**-**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	*Balistes capriscus*			*LBA*	*CIO*		*23596*	*75047*	*1532.89*	*1.39*	*0.00*	*6.9*	*-*	*-*	*-9.88*	*-*
Tell Fadous	***Balistes capriscus***			**EBIII**	**BioArCh**	**20164**	**30148**		**1047.5**	**-**	**-**					
Kinet Höyük	Carangidae			LIA	BioArCh	20166	7428		917.6	50.5	5.50	26.26	9.52	3.22	-7.58	8.9
Kinet Höyük	Carangidae			MIA	BioArCh	20166	21658.2		740.8	24.8	3.35	29.78	11.06	3.14	-12.7	11.76
Kinet Höyük	*Carangidae*			*LIA*	*BioArCh*	*20166*	*9652*		*931.1*	*27.3*	*2.93*	*5.41*	*1.79*	*3.53*	*-8.76*	*8.88*
Tell Fadous	*Carangidae*			*EBIII*	*BioArCh*	*20164*	*30123*		*1040.1*	*20.2*	*1.94*	*1.35*	*0.27*	*5.91*	*-20.98*	*-1.67**
Tell Fadous	**Carangidae**			**EBIII**	**BioArCh**	**20164**	**10558**		**901.5**	**5.7**	**0.63**					
Kinet Höyük	**Carangidae**			**LIA**	**BioArCh**	**20166**	**15945.1**		**860.3**	**14.4**	**1.67**					
Tell Fadous	Carcharinidae			EBIII	BioArCh	20164	10578		591.2	17.7	2.99	35.82	12.47	3.35	-10.11	9.69
Tell Fadous	Carcharinidae			EBIII	BioArCh	20164	11022		654.2	32.7	5.00	29.5	10.47	3.29	-9.7	9.45
Tell Fadous	*Carcharinidae*			*EBII*	*BioArCh*	*20164*	*11633*		*897.8*	*31.4*	*3.50*	*20.19*	*6.98*	*3.38*	*-11.07**	*9.98*
Kinet Höyük	Carcharinidae			EBA	BioArCh	20166	23837		519.9	45.5	8.75	38.24	13.61	3.28	-11.43	13.12
Tell Fadous	*Carcharinidae*			*EBIII*	*BioArCh*	*20164*	*10557*		*574.1*	*20.9*	*3.64*	*22.73*	*7.84*	*3.39*	*-10.4*	*10.47**

Continued

Table S4 continued

Site	Taxa	Estimated SL (cm)	Estimated TL (cm)	Time Period	Isotope Lab	Lot No. (BioArCh Database)	Sample ID	CIO Sample Number	Sample Weight (mg)	Collagen Yield (mg)	Collagen yield (%)	C %	N %	C:N ratio	δ13C‰	δ15N‰
Tell Fadous	**Carcharinidae**			**EBIII**	**BioArCh**	**20164**	**11744**		**623.7**	**8.6**	**1.38**					
Tell el-Burak	**Carcharinidae**			**?**	**BioArCh**	**20165**	**30178**		**398.1**	**4.2**	**1.06**					
Kinet Höyük	*Dentex* sp.			MBA	BioArCh	20166	10634.3		461.1	29	6.29	35.49	13.2	3.14	-8.03	8.51
Kinet Höyük	*Dentex* sp.			LBII	BioArCh	20166	23354		430.8	22.4	5.20	38.64	13.88	3.27	-9.68	6.8
Kinet Höyük	*Dentex* sp.				BioArCh	20166	23935		504.6	10.3	2.04	38.19	13.49	3.3	-8.73	6.69
Kinet Höyük	*Dentex* sp.			LBII	BioArCh	20166	23868		845.5	30.9	3.65	28.92	10.45	3.23	-10.39	7.99
Kinet Höyük	*Dentex* sp.			*EIA*	*BioArCh*	*20166*	*6376.1*		*497.6*	*4.3*	*0.86*	*15.74*	*5.15*	*3.57*	*-10.22*	*9.16*
Kinet Höyük	*Dicentrachus* sp.			HELL	BioArCh	20166	9722		568	36.5	6.43	34.41	12.44	3.23	-6.71	6.02
Tell Fadous	*Dicentrachus* sp.			*EBIII*	*BioArCh*	*20164*	*11614*		*1140.8*	*22.6*	*1.98*	*6.28*	*1.87*	*3.91*	*-11.07*	*8.04*
Kinet Höyük	***Dicentrachus* sp.**			**LIA**	**BioArCh**	**20166**	**7408**		**314**	**0.65**	**0.21**					
Kinet Höyük	***Dicentrachus* sp.**			**LIA**	**BioArCh**	**20166**	**15945.2**		**329**	**-**	**-**					
Kinet Höyük	**Epinephelidae**	**59.08**		**LBA**	**CIO**		**8989**	**75295**	**953.4**	**0.87**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	**Epinephelidae**	**>44.6**		**LBII**	**CIO**		**8994**	**75290**	**766.8**	**3.4**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	**Epinephelidae**	**~44.6 SL**		**MIA**	**CIO**		**9331**	**75192**	**821.58**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	**Epinephelidae**	**>44.6**		**LIA**	**CIO**		**14531**	**75050**	**1124.85**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	**Epinephelidae**	**44.98**		**MIA**	**CIO**		**17025**	**75034**	**518.95**	**0.43**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	**Epinephelidae**	**>44.6**		**EBIII**	**CIO**		**20771**	**75198**	**853.95**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	**Epinephelidae**	**44.69**		**EBIII**	**CIO**		**20771**	**75199**	**311.86**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	**Epinephelidae**	**53.07**		**EBIII**	**CIO**		**20771**	**75200**	**656.65**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	Epinephelidae		94.65		BioArCh	20166	6369		777.8	49.8	6.40	30.11	11.22	3.13	-8.72	9.11
Kinet Höyük	**Epinephelidae**	**>44.6**		**EBA**	**CIO**		**22369**	**75033**	**880.58**	**3.54**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	**Epinephelidae**	**>44.6**		**EHELL**	**CIO**		**23029**	**75296**	**1327.55**	**3.56**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	Epinephelidae	90.31	105.36	LIA	BioArCh	20166	7181		626.4	12.6	2.01	40.81	14.98	3.18	-9.8	9.29
Kinet Höyük	**Epinephelidae**	**>44.6**		**LBII**	**CIO**		**23359**	**75291**	**691.08**	**3.91**	**0.01**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	Epinephelidae	75.61	88.39	MIA	BioArCh	20166	7641		963.4	15.2	1.58	36.57	13.56	3.15	-7.86	10.12
Kinet Höyük	Epinephelidae	72.3	84.58	MIA	BioArCh	20166	7641.2		603.6	2.5	0.41	39.27	14.12	3.25	-6.87	8.62

Continued

Table S4 continued

Site	Taxa	Estimated SL (cm)	Estimated TL (cm)	Time Period	Isotope Lab	Lot No. (BioArCh Database)	Sample ID	CIO Sample Number	Sample Weight (mg)	Collagen Yield (mg)	Collagen yield (%)	C %	N %	C:N ratio	δ13C‰	δ15N‰
Kinet Höyük	**Epinephelidae**	**74.06**		**LBII**	**CIO**		**23455**	**75293**	**688.61**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	Epinephelidae	61.61	72.24	LIA	BioArCh	20166	8482		748.1	24.6	3.29	38.38	14.03	3.19	-8.58	9.47
Kinet Höyük	Epinephelidae	53.37	62.73	LIA	BioArCh	20166	8487		524.6	30	5.72	38.11	13.92	3.18	-8.27	9.76
Kinet Höyük	Epinephelidae	57.02	66.95	LBII	BioArCh	20166	8994		709.7	9.5	1.34	19.73	7.2	3.19	-6.79	8.87
Kinet Höyük	Epinephelidae	44.71	52.74	LBII	BioArCh	20166	9066		705.2	6.1	0.87	36.47	12.73	3.34	-7.18	9.02
Kinet Höyük	**Epinephelidae**	**>44.6 SL**		**LBA**	**CIO**		**24901**	**75191**	**1419.51**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	**Epinephelidae**	**>44.6 SL**		**LBA**	**CIO**		**24977**	**75049**	**1542.94**	**8.55**	**0.01**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	Epinephelidae	71.67	83.85	LBII	BioArCh	20166	23222		523.5	5.7	1.09	24.83	8.71	3.32	-7.9	8.61
Kinet Höyük	Epinephelidae	74.06	86.61	LBII	BioArCh	20166	23455		506.7	6.5	1.28	33.05	11.43	3.37	-8.54	8.19
Kinet Höyük	Epinephelidae	117.3	136.5	LBA	BioArCh	20166	23578.1		537.3	4.8	0.89	24.53	8.69	3.29	-8.66	8.71
Kinet Höyük	Epinephelidae	128.94	149.93	LBA	BioArCh	20166	23578.2		1129.5	5.7	0.50	33.2	12.37	3.13	-7.87	8.97
Kinet Höyük	Epinephelidae	43.03	50.8	LBII	BioArCh	20166	23780.2		256.8	10.67	4.15	38	13.67	3.24	-7.33	8.29
Kinet Höyük	*Epinephelidae*	*>44.6 SL*		*EIA*	*CIO*		*20722*	*75046*	*1413.74*	*12.38*	*0.01*	*5.8*	*2.4*	*2.79*	*-8.01*	*7.63*
Kinet Höyük	Epinephelidae	65-70		HELL	BioArCh	20166	7344		1454.9	30.7	2.11	22.46	8.24	3.18	-10.91	9.77
Tell Fadous	Epinephelidae	62.3	73.18	EBA III	BioArCh	20164	30001		693.1	14.3	2.06	29.98	11.01	3.18	-8.38	8.63
Kinet Höyük	*Epinephelidae*	*>44.6*		*LIA*	*CIO*		*9106*	*75297*	*1937.84*	*47.97*	*0.02*	*7.8*	*3.2*	*2.87*	*-7.58*	*9.14*
Tell Fadous	Epinephelidae	41.35	48.89	EBA III	BioArCh	20164	30021		642.8	4.4	0.68	33.04	11.64	3.31	-10.03	8.25
Tell Fadous	Epinephelidae	48.35	57.01	EBA III	BioArCh	20164	30029		731.9	21.3	2.91	36.15	13.08	3.22	-7.78	8.53
Tell Fadous	Epinephelidae	87.3	102.17	EBA III	BioArCh	20164	30037		622.2	17.7	2.84	34.58	12.22	3.3	-8.45	8.22
Tell Fadous	Epinephelidae	133.68	155.95	EBA III	BioArCh	20164	30053		1119.5	11	0.98	14.5	5.08	3.33	-8.78	8.46
Tell Fadous	*Epinephelidae*		*49.72*	*EBIII*	*BioArCh*	*20164*	*30005*		*332*	*2.8*	*0.84*	*26.19*	*8.71*	*3.51*	*-10.54*	*8.58*
Kinet Höyük	*Epinephelidae*	*80.85*		*LIA*	*CIO*		*7841*	*75301*	*1056.44*	*15.88*	*0.02*	*27.1*	*14.5*	*4.34*	*-8.39*	*9.43*
Tell Fadous	*Epinephelidae*		*83.16*	*EBIII*	*BioArCh*	*20164*	*30011*		*733.8*	*7.2*	*0.98*	*2.62*	*0.6*	*5.08*	*-15.09**	*6.84*
Kinet Höyük	*Epinephelidae*	*>44.6 SL*		*EIA*	*CIO*		*7053*	*75045*	*1293.71*	*8.12*	*0.01*	*1*	*-*	*-*	*-9.08*	*-*
Kinet Höyük	**Epinephelidae**	**>44.6**		**EIA**	**CIO**		**8171**	**75051**	**1387.62**	**3.92**	**0.00**	**-**	**-**	**-**	**-**	**-**
Kinet Höyük	*Epinephelidae*	*127.38*		*MIA*	*CIO*		*21658*	*75042*	*1768.62*	*12.58*	*0.01*	*0.9*	*0*	*-*	*-10.26*	

Continued

Table S4 continued

Site	Taxa	Estimated SL (cm)	Estimated TL (cm)	Time Period	Isotope Lab	Lot No. (BioArCh Database)	Sample ID	CIO Sample Number	Sample Weight (mg)	Collagen Yield (mg)	Collagen yield (%)	C %	N %	C:N ratio	δ13C‰	δ15N‰
Tell Fadous	**Epinephelidae**		**85.74**	**EBIII**	**BioArCh**	**20164**	**30009**		**1038**	**-**	**-**					
Tell Fadous	**Epinephelidae**		**44.12**	**EBIII?**	**BioArCh**	**20164**	**30010**		**494.2**	**6.8**	**1.38**					
Tell Fadous	**Epinephelidae**		**115.71**	**EBIII**	**BioArCh**	**20164**	**30012**		**743.8**	**6.7**	**0.90**					
Tell Fadous	**Epinephelidae**		**61.18**	**EBIII**	**BioArCh**	**20164**	**30013**		**701.2**	**1.3**	**0.19**					
Kinet Höyük	Epinephelidae	~1150 cm SL		LIA	CIO		10236	75298	1185.92	17.62	0.01	40.7	15.4	3.08	-13.35	7.67
Kinet Höyük	Epinephelidae	>44.6		LIA	CIO		12196	75196	1114.26	10.16	0.01	39.7	14.9	3.11	-10.23	8.91
Tell Fadous	**Epinephelidae**		**51.37**	**EBIII?**	**BioArCh**	**20164**	**30112**		**688.1**	**3.7**	**0.54**					
Kinet Höyük	**Epinephelidae**	**>44.6 SL**		**EIA**	**CIO**		**6376**	**75188**	**1232.79**	**-**	**-**					
Kinet Höyük	**Epinpephelidae / Serranidae**	**<44.6 SL**		**LBA**	**CIO**		**9313**	**75032**	**194.87**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	**Epinpephelidae / Serranidae**	**<44.6**		**EMED**	**CIO**		**17107**	**75187**	**158.63**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	**Epinpephelidae / Serranidae**	**<44.6**		**EMED**	**CIO**		**17107**	**75193**	**377.23**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	**Epinpephelidae / Serranidae**	**26.95**		**MBA**	**CIO**		**21814**	**75299**	**284.32**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	**Epinpephelidae / Serranidae**			**MBI**	**CIO**		**22309**	**75186**	**329.62**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	Epinpephelidae / Serranidae			LBA	BioArCh	20166	3930		634.4	18.6	2.93	27.74	10.13	3.19	-8.13	8.8
Kinet Höyük	Epinpephelidae / Serranidae			LBA	BioArCh	20166	4110		385.3	6.5	1.69	31.67	11.38	3.25	-10.07	8.8
Kinet Höyük	Epinpephelidae / Serranidae			LBII	BioArCh	20166	4624		691.7	32.2	4.66	19.24	6.92	3.25	-8.05	9.06
Kinet Höyük	Epinpephelidae / Serranidae			LIA	BioArCh	20166	5955		433.7	14.3	3.30	38.22	14.01	3.18	-8.62	8.3
Kinet Höyük	Epinpephelidae / Serranidae			MED	BioArCh	20166	6239.2		387	18.25	4.72	34.08	12.25	3.25	-8.41	9.65
Kinet Höyük	Epinpephelidae / Serranidae			LIA	BioArCh	20166	6964		526.5	36.8	6.99	36.67	13.55	3.16	-7.33	9.5
Kinet Höyük	Epinpephelidae / Serranidae			EIA	BioArCh	20166	7113		579.2	15.4	2.66	31.65	11.07	3.34	-9.79	8.76

Continued

Table S4 continued

Site	Taxa	Estimated SL (cm)	Estimated TL (cm)	Time Period	Isotope Lab	Lot No. (BioArCh Database)	Sample ID	CIO Sample Number	Sample Weight (mg)	Collagen Yield (mg)	Collagen yield (%)	C %	N %	C:N ratio	δ13C‰	δ15N‰
Kinet Höyük	Epinpephelidae / Serranidae			LIA	BioArCh	20166	7727		528	13.7	2.59	43.39	15.44	3.28	-8.93	8.77
Kinet Höyük	Epinpephelidae / Serranidae			LIA	BioArCh	20166	7841.1		522.8	1.4	0.27	21.65	7.48	3.38	-9.36	10.26
Kinet Höyük	Epinpephelidae / Serranidae			LIA	BioArCh	20166	8074		537.3	25.9	4.82	40.17	14.43	3.25	-8.58	9.69*
Kinet Höyük	Epinpephelidae / Serranidae			LBA	BioArCh	20166	8357		614.3	10.9	1.77	34.99	12.69	3.22	-7.95	8.74
Kinet Höyük	Epinpephelidae / Serranidae			LBA	BioArCh	20166	8446		1073.5	64.1	5.97	26.58	9.92	3.13	-7.16	9.63
Kinet Höyük	Epinpephelidae / Serranidae			?	BioArCh	20166	8595		653.6	26.5	4.05	33.49	11.81	3.32	-8.29	10.43
Kinet Höyük	Epinpephelidae / Serranidae			MBA	BioArCh	20166	8596		614.8	4.5	0.73	40.41	14.22	3.31	-8.69	7.97
Kinet Höyük	Epinpephelidae / Serranidae			LBA	BioArCh	20166	8634		692.3	8.4	1.21	39.07	14.07	3.24	-9.69	8.79
Kinet Höyük	Epinpephelidae / Serranidae			LIA	BioArCh	20166	9106.1		759.7	27.1	3.57	28.79	10.74	3.13	-7.82	9.68
Kinet Höyük	Epinpephelidae / Serranidae			MED	BioArCh	20166	9556**		342.4	24.3	7.10	37.73	13.74	3.2	-8.97	8.74
Kinet Höyük	Epinpephelidae / Serranidae			LBA	BioArCh	20166	9747		587.3	1.6	0.27	25.65*	8.85	3.38	-8.03	8.9
Kinet Höyük	Epinpephelidae / Serranidae			LBA	BioArCh	20166	9794		503.1	28.7	5.70	43.14	15.91	3.16	-9.83	9.61
Kinet Höyük	Epinpephelidae / Serranidae			LBII	BioArCh	20166	9932		1009.1	31.3	3.10	19.89	7.3	3.18	-7.63	10.72
Kinet Höyük	Epinpephelidae / Serranidae			MED	BioArCh	20166	10125		718.8	22.6	3.14	34.38	12.67	3.17	-7.13	7.41
Kinet Höyük	Epinpephelidae / Serranidae			MIA	BioArCh	20166	10163		661.6	31.7	4.79	37.41	13.62	3.19	-8.01	8.68
Kinet Höyük	Epinpephelidae / Serranidae			MIA	BioArCh	20166	10344		1024.7	37.3	3.64	29	10.88	3.11	-6.87	10.44
Kinet Höyük	**Epinpephelidae / Serranidae**	**<44.6 SL**		**LBA**	**CIO**		**23564**	**75044**	**346.92**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	**Epinpephelidae / Serranidae**			**LBII**	**CIO**		**23570**	**75191**	**744.04**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**

Continued

Table S4 continued

Site	Taxa	Estimated SL (cm)	Estimated TL (cm)	Time Period	Isotope Lab	Lot No. (BioArCh Database)	Sample ID	CIO Sample Number	Sample Weight (mg)	Collagen Yield (mg)	Collagen yield (%)	C %	N %	C:N ratio	δ13C‰	δ15N‰
Tell Fadous	Epinpephelidae / Serranidae			EBIII	BioArCh	20164	10562		549.3	7.7	1.40	27.58	9.65	3.34	-8.22	8.13
Kinet Höyük	Epinpephelidae / Serranidae	25.13	30.15	LBII	BioArCh	20166	10858		138.8	6.06	4.37	39.77	14.11	3.27	-10.25	7.09
Kinet Höyük	Epinpephelidae / Serranidae			LIA	BioArCh	20166	10893		631.1	29	4.60	42.82	15.74	3.17	-6.5	8.93
Kinet Höyük	**Epinpephelidae / Serranidae**			**LBII**	**CIO**		**24023**	**75190**	**1575.04**	**4.57**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	Epinpephelidae / Serranidae			MIA	BioArCh	20166	11134		715.7	22.2	3.10	39.93	14.7	3.17	-8.48	10.88
Kinet Höyük	Epinpephelidae / Serranidae			MIA	BioArCh	20166	11237		167.8	8.4	5.01	38.82	14.13	3.2	-9.62	7.61
Kinet Höyük	Epinpephelidae / Serranidae			MBA	BioArCh	20166	11502		627.8	29.4	4.68	43.39	15.75	3.21	-9.15	9.19
Kinet Höyük	Epinpephelidae / Serranidae			MBA	BioArCh	20166	11564		319.4	13.41	4.20	40.38	14.64	3.21	-8.42	8.32
Kinet Höyük	Epinpephelidae / Serranidae			MBA	BioArCh	20166	11569		506.6	9.6	1.89	37.64	13.8	3.18	-9.09	9.52
Tell Fadous	Epinpephelidae / Serranidae			EBII	BioArCh	20164	11646		678.4	13.9	2.05	33.04	11.45	3.37	-9.74	7.57
Tell Fadous	Epinpephelidae / Serranidae			EBII	BioArCh	20164	11672		773.1	9.1	1.18	33.14	11.26	3.43	-8.87	8.68
Kinet Höyük	Epinpephelidae / Serranidae			LIA	BioArCh	20166	12196		834.2	28.39	3.40	26.69	10	3.11	-7.93	9.26
Kinet Höyük	Epinpephelidae / Serranidae			MBA	BioArCh	20166	12343.2		394.7	17.7	4.48	39.63	14.44	3.2	-8.21	8.43
Kinet Höyük	Epinpephelidae / Serranidae			MED	BioArCh	20166	12847		568.6	53.6	9.43	40.22	14.73	3.18	-10.46	6.85
Kinet Höyük	Epinpephelidae / Serranidae			LIA	BioArCh	20166	14430		226.1	15.69	6.94	38.65	14.03	3.22	-7.93	8.91
Kinet Höyük	Epinpephelidae / Serranidae			LIA	BioArCh	20166	14544		901	58.7	6.51	42.09	15.47	3.17	-8.13	9.51
Kinet Höyük	Epinpephelidae / Serranidae			MBA	BioArCh	20166	16374		728.5	13.3	1.83	40.79	14.55	3.27	-8.57	9.63
Kinet Höyük	Epinpephelidae / Serranidae			EBIII	BioArCh	20166	19420		262.7	3.6	1.37	40.32	14.22	3.32	-10.44	7.58

Continued

Table S4 continued

Site	Taxa	Estimated SL (cm)	Estimated TL (cm)	Time Period	Isotope Lab	Lot No. (BioArCh Database)	Sample ID	CIO Sample Number	Sample Weight (mg)	Collagen Yield (mg)	Collagen yield (%)	C %	N %	C:N ratio	δ13C‰	δ15N‰
Kinet Höyük	Epinpephelidae / Serranidae			EIA	BioArCh	20166	20698		945.1	35.9	3.80	36.9	13.42	3.21	-8.35	8.81
Kinet Höyük	Epinpephelidae / Serranidae			EIA	BioArCh	20166	20722		590.5	15.1	2.56	26.9	9.86	3.18	-7.2	8.61
Kinet Höyük	Epinpephelidae / Serranidae			EBIII	BioArCh	20166	20771.1		619	8.8	1.42	39.44	14.08	3.27	-8.08	9.86
Kinet Höyük	Epinpephelidae / Serranidae			EIA	BioArCh	20166	21330.2		333.2	12.58	3.78	40.82	14.64	3.25	-9.42	8.85
Kinet Höyük	Epinpephelidae / Serranidae			LBII	BioArCh	20166	23362		577.4	28.5	4.94	39.74	14.84	3.12	-6.77	9.25
Kinet Höyük	Epinpephelidae / Serranidae			LBII	BioArCh	20166	23365.2		450.5	33.4	7.41	40.65	15.05	3.15	-8.57	6.53
Kinet Höyük	Epinpephelidae / Serranidae			LBA	BioArCh	20166	23368		848.8	13.1	1.54	26.85	10.01	3.13	-8.42	9.37
Kinet Höyük	Epinpephelidae / Serranidae			LBII	BioArCh	20166	23470.1		749.9	27.2	3.63	4.05	1.39	3.42	-10.44	7.7
Kinet Höyük	Epinpephelidae / Serranidae			LBII	BioArCh	20166	23470.2		876	36.8	4.20	20.86	7.57	3.21	-7.68	9.36
Kinet Höyük	Epinpephelidae / Serranidae			LBA	BioArCh	20166	23598		663.2	32.9	4.96	36.92	13.86	3.11	-8.7	8.81
Kinet Höyük	*Epinpephelidae / Serranidae*	*>44.6 SL*		*LBA*	*CIO*		*24036*	*75048*	*1756.57*	*1.44*	*0.00*	*7.1*	*4.2*	*1.98*	*-9.77*	*7.19*
Kinet Höyük	Epinpephelidae / Serranidae			LBII	BioArCh	20166	23648.1		543.7	25.8	4.75	42.25	15.6	3.16	-8.48	9.01
Kinet Höyük	Epinpephelidae / Serranidae			LBA	BioArCh	20166	23755		628.7	23.4	3.72	34.73	12.92	3.14	-8.63	8.26
Kinet Höyük	Epinpephelidae / Serranidae			LBA	BioArCh	20166	23769		818.1	15.2	1.86	17.75	6.49	3.19	-7.87	9.49
Kinet Höyük	Epinpephelidae / Serranidae			LBII	BioArCh	20166	23795		370.5	17.1	4.62	40.39	15.11	3.12	-8.73	8.39
Kinet Höyük	Epinpephelidae / Serranidae			LBII	BioArCh	20166	23859		845.5	30.9	3.65	33.21	12.41	3.12	-10.15	6.8
Kinet Höyük	Epinpephelidae / Serranidae			LBII	BioArCh	20166	24014		518.7	6.5	1.25	23.79	7.96	3.48	-9.04	8.25
Kinet Höyük	Epinpephelidae / Serranidae			LBII	BioArCh	20166	24030.1		333.3	15.2	4.56	37.8	14.01	3.15	-8.44	8.04

Continued

Table S4 continued

Site	Taxa	Estimated SL (cm)	Estimated TL (cm)	Time Period	Isotope Lab	Lot No. (BioArCh Database)	Sample ID	CIO Sample Number	Sample Weight (mg)	Collagen Yield (mg)	Collagen yield (%)	C %	N %	C:N ratio	δ13C‰	δ15N‰
Kinet Höyük	Epinpephelidae / Serranidae			LBII	BioArCh	20166	24030.2		551.7	14.9	2.70	31.87	11.75	3.17	-7.15	10.05
Kinet Höyük	*Epinpephelidae / Serranidae*			*LBA*	*BioArCh*	*20166*	*23642*		*671*	*18.7*	*2.79*	*34.31*	*12.7*	*3.15*	*-7.47*	*8.77**
Kinet Höyük	*Epinpephelidae / Serranidae*			*LBA*	*BioArCh*	*20166*	*23372*		*1126.1*	*14.8*	*1.31*	*24.4*	*8.89*	*3.2*	*-7.39*	*8.91**
Kinet Höyük	*Epinpephelidae / Serranidae*			*LIA*	*BioArCh*	*20166*	*7339*		*527.8*	*17.2*	*3.26*	*38.51**	*13.92*	*3.23*	*-7.61**	*9.24**
Tell el-Burak	Epinpephelidae / Serranidae			MBA	BioArCh	20165	30070		590.6	9.8	1.66	36.65	13.09	3.27	-8.1	7.8
Tell el-Burak	Epinpephelidae / Serranidae			MBA	BioArCh	20165	30076		491.6	10.1	2.05	38.47	13.58	3.31	-9.29	7.67
Tell el-Burak	Epinpephelidae / Serranidae	30.03	35.82	?	BioArCh	20165	30079		603.9	13	2.15	27.78	10.05	3.22	-7.13	7.31
Tell el-Burak	*Epinpephelidae / Serranidae*			*MBA*	*BioArCh*	*20165*	*30058*		*575.8*	*8.9*	*1.55*	*23.08*	*7.34*	*3.67*	*-9.69*	*10.9*
Kinet Höyük	*Epinpephelidae / Serranidae*			*MIA*	*BioArCh*	*20166*	*21658.1*		*557*	*3.7*	*0.66*	*19.98*	*6.15*	*3.79*	*-10.9*	*9.16*
Tell Fadous	*Epinpephelidae / Serranidae*			*EBIII*	*BioArCh*	*20164*	*11029*		*724.7*	*6.9*	*0.95*	*5.96*	*1.73*	*4.02*	*-12.66*	*6.85*
Tell el-Burak	Epinpephelidae / Serranidae			IA?	BioArCh	20165	30171		734.6	20.7	2.82	30.79	10.75	3.34	-6.84	9.19
Tell el-Burak	*Epinpephelidae / Serranidae*			*IA*	*BioArCh*	*20165*	*30048*		*662.9*	*4.7*	*0.71*	*15.49*	*3.96*	*4.56*	*-11*	*11.34*
Tell Fadous	Epinpephelidae / Serranidae			EBII	BioArCh	20164	30501		988.9	19.3	1.95	27.43	10.03	3.19	-7.75	9.69
Tell Fadous	*Epinpephelidae / Serranidae*			*EBIII*	*BioArCh*	*20164*	*10553*		*712.4*	*8.7*	*1.22*	*9.44*	*2.29*	*4.81*	*-13.52*	*5.48*
Kinet Höyük	**Epinpephelidae / Serranidae**	**<44.6**		**MED**	**CIO**		**12127**	**75038**	**260.08**	**0.16**	**0.00**	**-**	**-**	**-**	**-**	**-**
Kinet Höyük	**Epinpephelidae / Serranidae**	**29.7**		**HELL**	**CIO**		**14896**	**75036**	**133.2**	**0.23**	**0.00**	**-**	**-**	**-**	**-**	**-**
Kinet Höyük	*Epinpephelidae / Serranidae*			*LBA*	*BioArCh*	*20166*	*23995*		*644.6*	*27.3*	*4.24*	*7.88*	*2.63*	*3.49**	*-9.93**	*7.98*
Kinet Höyük	**Epinpephelidae / Serranidae**			**EIA**	**BioArCh**	**20166**	**6376.2**		**872**	**2.1**	**0.24**					

Continued

Table S4 continued

Site	Taxa	Estimated SL (cm)	Estimated TL (cm)	Time Period	Isotope Lab	Lot No. (BioArCh Database)	Sample ID	CIO Sample Number	Sample Weight (mg)	Collagen Yield (mg)	Collagen yield (%)	C %	N %	C:N ratio	δ13C‰	δ15N‰
Kinet Höyük	**Epinpephelidae / Serranidae**			**EIA**	**BioArCh**	**20166**	**7053**		**807.2**	**18.7**	**2.32**					
Kinet Höyük	**Epinpephelidae / Serranidae**			**EIA**	**BioArCh**	**20166**	**8171**		**715.8**	**4.4**	**0.61**					
Tell Fadous	**Epinpephelidae / Serranidae**			**EBIII**	**BioArCh**	**20164**	**10552.2**		**592**	**2.1**	**0.35**					
Tell Fadous	**Epinpephelidae / Serranidae**			**EBIII**	**BioArCh**	**20164**	**11003.2**		**665.2**	**29.2**	**4.39**					
Tell Fadous	**Epinpephelidae / Serranidae**			**EBIII**	**BioArCh**	**20164**	**11013**		**250.9**	**0.2**	**0.08**					
Kinet Höyük	**Epinpephelidae / Serranidae**			**LBA**	**BioArCh**	**20166**	**22036.2**		**744**	**16.3**	**2.19**					
Tell Fadous	**Epinpephelidae / Serranidae**			**EBII**	**BioArCh**	**20164**	**30032**		**571.2**	**7**	**1.23**					
Kinet Höyük	Epinpephelidae / Serranidae			MED	CIO		6239	75195	878.3	9.51	0.01	39.4	14.7	3.13	-7.77	9.12
Kinet Höyük	Epinpephelidae / Serranidae	37		MED	CIO		14262	75039	771.84	12.29	0.02	30.2	11.3	3.13	-8.79	8.44
Tell el-Burak	**Epinpephelidae / Serranidae**			**MBA**	**BioArCh**	**20165**	**30066**		**562.3**	**4.9**	**0.87**					
Tell el-Burak	**Epinpephelidae / Serranidae**			**?**	**BioArCh**	**20165**	**30081**		**512.9**	**5.4**	**1.05**					
Tell el-Burak	**Epinpephelidae / Serranidae**			**IA**	**BioArCh**	**20165**	**30112**		**669.2**	**4.8**	**0.72**					
Tell Fadous	**Epinpephelidae / Serranidae**			**EBIII**	**BioArCh**	**20164**	**30124**		**387.1**	**1.5**	**0.39**					
Tell Fadous	**Epinpephelidae / Serranidae**			**EBIII**	**BioArCh**	**20164**	**30133**		**639.4**	**5.6**	**0.88**					
Tell el-Burak	**Epinpephelidae / Serranidae**			**IA?**	**BioArCh**	**20165**	**30154**		**242.8**	**1**	**0.41**					
Tell Fadous	**Epinpephelidae / Serranidae**			**EBIII**	**BioArCh**	**20164**	**30155**		**752.2**	**4.1**	**0.55**					
Tell el-Burak	**Epinpephelidae / Serranidae**			**IA?**	**BioArCh**	**20165**	**30155**		**217.5**	**1.1**	**0.51**					
Tell el-Burak	**Epinpephelidae / Serranidae**			**?**	**BioArCh**	**20165**	**30174**		**550.1**	**1.5**	**0.27**					

Continued

Table S4 continued

Site	Taxa	Estimated SL (cm)	Estimated TL (cm)	Time Period	Isotope Lab	Lot No. (BioArCh Database)	Sample ID	CIO Sample Number	Sample Weight (mg)	Collagen Yield (mg)	Collagen yield (%)	C %	N %	C:N ratio	δ13C‰	δ15N‰
Tell Fadous	*Hypotremata*			*EBIII*	*BioArCh*	*20164*	*30173*		*1389.5*	*27.9*	*2.01*	*20.74*	*6.85*	*3.53**	*-9.95*	*7.12*
Kinet Höyük	Hypotremata			LIA	BioArCh	20166	6531		305.2	22.6	7.40	42.37	14.54	3.4	-8.09	7.14
Kinet Höyük	Hypotremata			MED	BioArCh	20166	11377		292.9	27.1	9.25	41.73	14.11	3.45	-9.94	8.17
Kinet Höyük	Hypotremata			LBA	BioArCh	20166	12794		320.6	23.3	7.27	37.77	12.95	3.4	-9.52	6.97
Tell el-Burak	*Mugilidae*			*IA*	*BioArCh*	*20165*	*30086*		*844*	*29.9*	*3.54*	*2.64*	*0.63*	*4.91*	*-21.12**	*4.72**
Kinet Höyük	Mugilidae			MIA	BioArCh	20166	10282.2		175.3	6	3.42	40.13	14.29	3.28	-12.43	7.29
Tell Fadous	Mugilidae			EBIII	BioArCh	20164	30313		542.7	9.7	1.79	35.72	12.3	3.39	-10.7	5.46
Kinet Höyük	***Pagrus* sp.**			**MED**	**CIO**		**11524**	**75294**	**2078.85**	**42.32**	**0.02**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	***Pagrus* sp.**	**31.64**		**LBII**	**CIO**		**24023**	**75305**	**675.98**	**0.38**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	*Pagrus* sp.			*MBA*	*BioArCh*	*20166*	*8596.1*		*709.5*	*4.2*	*0.59*	*2.67*	*0.56*	*5.62*	*-20.27*	*4.43*
Kinet Höyük	*Pagrus* sp.			MIA	BioArCh	20166	9098		322.2	11.71	3.63	39.52	14.47	3.19	-9.42	7.27
Kinet Höyük	*Pagrus* sp.			LIA	BioArCh	20166	9106.2		319.5	22.76	7.12	37.9	14.09	3.14	-8.68	6.5
Tell Fadous	*Pagrus* sp.			EBIV	BioArCh	20164	11792		504.7	8	1.59	34.39	12.07	3.32	-8.56	7.21
Tell Fadous	*Pagrus* sp.		73.18	EBIII	BioArCh	20164	11832		481.2	14.6	3.03	34.15	12.46	3.2	-10.61	6.54
Tell el-Burak	*Pagrus* sp.			IA	BioArCh	20165	30108		781.4	10.4	1.33	25.6	9.21	3.24	-9.47	8.54
Tell el-Burak	*Pagrus* sp.			IA	BioArCh	20165	30109		495.4	7.3	1.47	14.71	5.05	3.4	-8.56	7.23
Tell Fadous	*Pagrus* sp.			EBIII	BioArCh	20164	30460		822.1	9.5	1.16	31.17	11.27	3.23	-11.33	6.85
Tell Fadous	***Pagrus* sp.**			**EBIII**	**BioArCh**	**20164**	**30147**		**804.1**	**2.9**	**0.36**					
Kinet Höyük	*Pagrus* sp.	25.3		LIA	CIO		3897	75304	842.65	41.91	0.05	41.2	15.6	3.09	-9.42	6.87
Kinet Höyük	Scombridae			MBA	BioArCh	20166	11676		416.6	66.9	16.06	43.31	15.79	3.2	-10.85	6.7
Tell el-Burak	Scombridae			IA	BioArCh	20165	30085		560.2	12.8	2.28	18.71	6.5	3.36	-12.56	7.73
Kinet Höyük	**Sparidae**	**15.1**		**LBA**	**CIO**		**22886**	**75035**	**168.51**	**0**	**0.00**	**0**	**0**	**0**	**0**	**0**
Kinet Höyük	*Sparidae*			*LBII*	*BioArCh*	*20166*	*23589*		*990.3*	*58.4*	*5.90*	*44.02**	*16.22*	*3.18*	*-9.05**	*7.46**
Kinet Höyük	*Sparidae*			*MED*	*BioArCh*	*20166*	*14262*		*897.1*	*92.6*	*10.32*	*39.36*	*14.38*	*3.19*	*-10.98*	*7.91**
Kinet Höyük	*Sparidae*			*EBIII*	*BioArCh*	*20166*	*20771.2*		*423.1*	*3.3*	*0.78*	*38.31*	*11.86*	*3.77*	*-11.19*	*8.36*
Kinet Höyük	Sparidae			LBA	BioArCh	20166	9120		659.5	25.9	3.93	27.09	9.78	3.23	-8.3	6.96

Continued

Table S4 continued

Site	Taxa	Estimated SL (cm)	Estimated TL (cm)	Time Period	Isotope Lab	Lot No. (BioArCh Database)	Sample ID	CIO Sample Number	Sample Weight (mg)	Collagen Yield (mg)	Collagen yield (%)	C %	N %	C:N ratio	δ13C‰	δ15N‰
Kinet Höyük	Sparidae			LBA	BioArCh	20166	9537		721.7	40.7	5.64	40.59	14.92	3.17	-8.59	7.03
Kinet Höyük	Sparidae			LIA	BioArCh	20166	9650		386.5	22.05	5.71	37.87	14.15	3.12	-7.83	7.91
Kinet Höyük	Sparidae			MIA	BioArCh	20166	10548		453.2	9.7	2.14	41.53	14.7	3.3	-10	6.56
Tell Fadous	Sparidae			EBIII	BioArCh	20164	11003.3		702.4	15.5	2.21	31.74	11.43	3.24	-8.62	6.86
Tell Fadous	Sparidae			EBIII	BioArCh	20164	11693		322	13.4	4.16	35.28	12.62	3.26	-10.99	4.39
Kinet Höyük	Sparidae			LBA	BioArCh	20166	12061.2		911.2	27.5	3.02	19.93	7.4	3.14	-8.63	7.78
Kinet Höyük	Sparidae			LBI	BioArCh	20166	12786		619.3	12	1.94	37.01	13.21	3.27	-8.77	7.71
Kinet Höyük	Sparidae			LIA	BioArCh	20166	15945.3		275.6	9.8	3.56	29.88	10.63	3.28	-6.91	6.51
Kinet Höyük	Sparidae			LBII	BioArCh	20166	23648.2		628.7	23.4	3.72	22.93	8.58	3.12	-8.58	8.58
Tell el-Burak	Sparidae			MBA	BioArCh	20165	30060		493.9	11.8	2.39	33.91	11.78	3.36	-10.47	8.97
Tell el-Burak	Sparidae			IA	BioArCh	20165	30095		626.5	12.5	2.00	26.55	9.02	3.43	-8.08	7.66
Kinet Höyük	Sparidae	45.89		LBA	CIO		4016	75041	11.87	0.83%	5.32	20.8	7.8	3.13	-10.01	6.26
Kinet Höyük	Sparidae			LBA	CIO		12061	75043	6.95	0.48%	1.41	28.6	10.9	3.05	-9.46	6.75
Tell el-Burak	**Sparidae**			**MBA**	**BioArCh**	**20165**	**30064**		**362.3**	**4.9**	**1.35**					
Tell el-Burak	**Sparidae**			**IA**	**BioArCh**	**20165**	**30116**		**521.7**	**12.4**	**2.38**					
Tell el-Burak	**Sparidae**			**IA?**	**BioArCh**	**20165**	**30119**		**384.8**	**7.5**	**1.95**					
Tell el-Burak	*Sparus aurata*			*IA*	*BioArCh*	*20165*	*30052*		*626.8*	*6.4*	*1.02*	*27.5*	*9.58*	*3.35*	*-10.78**	*10.19**
Tell el-Burak	*Sparus aurata*			*IA?*	*BioArCh*	*20165*	*30172*		*834.8*	*14.6*	*1.75*	*4.81*	*1.52*	*3.7*	*-11.47*	*4.95*
Tell Fadous	Sparus aurata			EBIII	BioArCh	20164	11695		645.4	20.3	3.15	32.8	11.71	3.27	-6.24	6.06
Kinet Höyük	Sparus aurata			LIA	BioArCh	20166	14020		346.7	15.3	4.41	40.93	14.94	3.2	-9.72	6.88
Tell el-Burak	Sparus aurata			MBA	BioArCh	20165	30056		691.3	10.8	1.56	28.92	10.41	3.24	-9.9	9.25
Kinet Höyük	**Sparus aurata**			**LIA**	**BioArCh**	**20166**	**11101**		**275.4**	**1.14**	**0.41**					
Kinet Höyük	Sphyrnidae			LIA	BioArCh	20166	7824		1033.5	62.5	6.05	28.08*	10.01	3.27	-11.14	8.39

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