

Table 5. A list of all novel obtained, extracted, and sequenced ancient specimens.																	
Extract	Cloned	Exter Replic	Source	Samp #	Spec. #	Country	Location	Site code	Site type	Context	Phase	Dating	Wild/Dom	Element	Notes	ANC1	Haplotype
NEAR EAST																	
Armenia																	
GL343			NM2	32	77	Armenia		Khatunarkh	open, drv		5th millennium	5th millennium BC uncal?	wild	lower P4+M1+M2			
GL347			NM2	33		Armenia		Khatunarkh	open, drv		5th millennium	5th millennium BC uncal?	undetermined	Upper M3			
GL376			NM2	15	163	Armenia	nr Yerevan	Shengeviti	open, drv		late 4th-early 3rd millen	late 4th-early 3rd mill BC uncal?	undetermined	lower P2			ANC-Am2T
GL350			NM2	16	210	Armenia	nr Yerevan	Shengeviti	open, drv		late 4th-early 3rd millen	late 4th-early 3rd mill BC uncal?	undetermined	Metacarpal			ANC-Am2T
GL995			NM2	30	196/2	Armenia	nr Yerevan	Shengeviti	open, drv		3rd millennium	3rd millennium BC uncal?	undetermined	lower M3			
GL886			NM2	12	34	Armenia		Mokhra-Blur	open, drv		Early-Mid 3rd millennium	Early-Mid 3rd millennium BC uncal?	undetermined	lower premolar			
GL897			NM2	13		Armenia		Mokhra-Blur	open, drv		Early-Mid 3rd millennium	Early-Mid 3rd millennium BC uncal?	undetermined	lower M1/2			
GL992			NM2	25		Armenia	Lake Sevan	Sevan	open, drv		2nd millennium BC	2nd millennium BC uncal?	domestic?	lower P4			ANC-Am1T
GL896			NM2	1	10	Armenia	Lchashen	Lchashen	graveyard, open, drv		Late Bronze/early Iron	13th-9th cent. BC	domestic?	Lower I			ANC-Am1T
GL187		X	NM2	1		Armenia	Lake Sevan	Lchashen	graveyard, open, drv		Late Bronze/early Iron	13th-9th cent. BC	domestic?	Lower M1/2			ANC-Am1T
GL188			NM2	4	38	Armenia	Lake Sevan	Lchashen	graveyard, open, drv		Late Bronze/early Iron	13th-9th cent. BC	domestic?	Lower M1/2			ANC-Am1T
GL891		X	NM2	10		Armenia	Lake Sevan	Lchashen	graveyard, open, drv		Late Bronze/early Iron	13th-9th cent. BC	domestic?	lower I			ANC-Am1T
GL892			NM2	28	476	Armenia	Lchashen	Lchashen	open, drv		Late Bronze/early Iron	13th-9th cent. BC	undetermined	lower I			ANC-Am1T
GL866			NM2	20		Armenia	West of Yerevan	Nor Armavir	open, drv		Urartian (late iron)	9th-7th cent. BC	undetermined	lower P			
GL862			NM2	21		Armenia	West of Yerevan	Nor Armavir	open, drv		Urartian (late iron)	9th-7th cent. BC	undetermined	lower P			
GL881			NM2	23		Armenia		Pilgorat	open, drv		8th-5th cent BC	8th-5th cent BC	domestic?	lower dP4			ANC-Aside
GL861			NM2	27		Armenia		Timshir	open, drv		8th-5th cent BC	8th-5th cent BC	undetermined	P2+dP5			ANC-Aside
GL895			NM2	17		Armenia		Sevkar	open, drv		7th-5th cent BC	7th-5th cent BC	domestic	lower M2			ANC-Aside
GL994			NM2	22		Armenia	southern Armenia	Artashat	open, drv		Late Antique	4th-5th cent AD	undetermined	lower I			
GL812			NM2	35		Armenia		Benjamin	open, drv		1st half 1st mill AD	1st half 1st mill AD	undetermined	Upper M3			ANC-Aside
GL865			NM2	37	366	Armenia		Isakaektsi	open, drv		13th cent AD	13th cent AD	domestic	lower M1			ANC-Aside
GL864			NM2	38		Armenia		Isakaektsi	open, drv		13th cent AD	13th cent AD	undetermined	upper M3			ANC-Aside
Iran																	
GL291			FMNH		KMD7	Iran	Zagros region	Asiab	Semi-permanent settlement		Karim Shahr culture	10,200-7,600 BC (cal)	undetermined	lower premolar			
GL503			NM2			Iran	Fars Province	Toli-Bashi	mound		Neolithic-Chalcolithic	6200 - 4500 BC cal	wild	mandible	out side sectors, but in site next to the Chalco Neo levels		
GL349			RM2	12		Iran	Kerman Province	Tepe Yahya	Tepe/Tel (mound)	159-50	Period IV B 2	4500 BC	Wild?	astr			
GL351			RM2	13		Iran	Kerman Province	Tepe Yahya	Tepe/Tel (mound)	542-09	Period IV C.1	3200 BC	domestic?	M1/2			
GL504			NM2		D129	Iran	Mazandaran Province	Gohar Tappeh	mound	AXI VII	Pc. Bronze	-3000BC	wild	mandible			
GL711			NM2		D.8159	Iran	Mazandaran Province	Gohar Tappeh	mound	TAZIXXIV	Pc. Bronze	-3000BC	wild	maxillary teeth			
Iraq																	
GL315			FMNH		KMD11-PM11827	Iraq	nr Tibriz	Palegawra	Cave		Zarziian culture	14,000-12,000 BC (cal)	wild	incisor			
GL296		X	FMNH		KMD12-PM11812	Iraq	nr Tibriz	Palegawra	Cave		Zarziian culture	14,000-12,000 BC (cal)	wild	upper premolar			
GL482			FMNH		KMD13-PM11813	Iraq	nr Tibriz	Palegawra	Cave		Zarziian culture	14,000-12,000 BC (cal)	wild	carpal			
GL326			FMNH		KMD1	Iraq	nr Kirkuk	Jarmo (Qala'at)	Village	?	PPNB	7,600-6,900 BP (cal)	undetermined	lower incisor			
GL328			FMNH		KMD2	Iraq	nr Kirkuk	Jarmo (Qala'at)	Village	?	PPNB	7,600-6,900 BP (cal)	undetermined	lower incisor			
GL476			FMNH		KMD3	Iraq	nr Kirkuk	Jarmo (Qala'at)	Village	?	PPNB	7,600-6,900 BP (cal)	undetermined	upper incisor			
GL477			FMNH		KMD4	Iraq	nr Kirkuk	Jarmo (Qala'at)	Village	?	PPNB	7,600-6,900 BP (cal)	undetermined	mandible			
GL479			FMNH		KMD5	Iraq	nr Kirkuk	Jarmo (Qala'at)	Village	?	PPNB	7,600-6,900 BP (cal)	undetermined	mandible			
GL480			FMNH		KMD6	Iraq	nr Kirkuk	Jarmo (Qala'at)	Village	?	PPNB	7,600-6,900 BP (cal)	undetermined	mandible			
GL302			FMNH		KMD8	Iraq	34km S Kirkuk	Matarrah	Tell (Mound)			6,900-5,800 BC (cal)	domestic?	lower incisor			
GL303			FMNH		KMD9	Iraq	34km S Kirkuk	Matarrah	Tell (Mound)			6,900-5,800 BC (cal)	domestic?	lower incisor			
GL481			FMNH		KMD10	Iraq	34km S Kirkuk	Matarrah	Tell (Mound)			6,900-5,800 BC (cal)	domestic?	incisor			
Israel																	
A183			LKH	IS-C1	30/93, 35/10	Israel	12km south of Haifa	Tel Hreiz	submerged coastal		Late pottery Neolithic	7th millennium uncal. BP	undetermined	scapula			
A182			LKH	IS-C2	30/93-9	Israel	12km south of Haifa	Neuwe Yam	submerged coastal		Late pottery Neolithic	7th millennium uncal. BP	undetermined	mandible			
A184			LKH	IS-C3	Bld 11 Ht 60-80	Israel	12km south of Haifa	Atlit Yam	submerged coastal		PPNC	end 9th - 1st 1/2 8th mill. Uncal. BP	undetermined	femur			
A185			LKH	IS-C5	C4 Bsk1 1333 Ht 6	Israel	12 km west of Jerusalem	Abu Ghosh			Middle to Late PPNB	7000-4000 BC	undetermined	ulna			
GL449			JL-T	1		Israel	22 miles S.W. of Jerusalem	Tell Miane-Ekron	Tell (Mound)		Iron Age	12th to 10th centuries B.C.	domestic	Jaw frag	associated with Philistine occupation?		
GL446			JL-T	4		Israel	23 miles S.W. of Jerusalem	Tell Miane-Ekron	Tell (Mound)		Iron Age	12th to 10th centuries B.C.	domestic	Jaw frag	associated with Philistine occupation?		
Syria																	
GL1014			RB/L-DV	1	Tell Aswad	Syria	Damascus	Tell Aswad	open field, Tell	G16	Middle PPNB	ca. 8000-7500 cal BC	domestic	femur diaphyses			
GL348			CC	2	44/3	Syria		Tell Sabi Abyad			Q14 - 7	7th/8th Mil.	7th/8th Mil. BC	undetermined	molar		
GL181			CC	5	81/20	Syria		Tell Sabi Abyad			R13 - 9	7th/8th Mil.	7th/8th Mil. BC	undetermined	tooth		
GL433			CC	6	256/1	Syria		Tell Sabi Abyad 91			Q13 - 85	7th/8th Mil.	7th/8th Mil. BC	undetermined	molar		
GL352			CC	7	219/28	Syria		Tell Sabi Abyad 88			Q13 - 74	7th/8th Mil.	7th/8th Mil. BC	undetermined	tooth		
GL182			AM	10	F.81.4	Syria	Hassake province, NE Syria	CB01 (Chagar Bazar)	Tell (mound)		GIII L 39 2	II	1st 1/2 2nd mill BC	domestic	tooth		
GL473			AM	9	D398, CB959	Syria	Hassake province, NE Syria	CB09 (Chagar Bazar)	Tell (mound)		AL L 16.3	II	1st 1/2 2nd mill BC	incisor			
GL484			AM	8	E.224.1	Syria	Hassake province, NE Syria	CB00 (Chagar Bazar)	Tell (mound)		AL L38.1	II	1st 1/2 2nd mill BC	domestic	incisor		ANC-Am1T
GL180			RM1		A1200.1	Syria	Brak, N. Syria	Tell Brak	Tell (mound)	HN	Late ED/Akkadian	c 2400 BC	domestic	astragalus			
GL179			RM1		A553.1	Syria	Brak, N. Syria	Tell Brak	Tell (mound)	TB96 51	Late ED/Akkadian	c 2350 BC	domestic	isolated teeth			
GL430			RM1		A508.1	Syria	Brak, N. Syria	Tell Brak	Tell (mound)	TB96 328	Late ED/Akkadian	c 1700 BC	domestic	rib			
GL494			RM1		A184.3	Syria	Brak, N. Syria	Tell Brak	Tell (mound)	HP	Middle Bronze Age		domestic	metatarsal			
Turkey																	
GL353			RM2	8		Turkey	Southwest Turkey	Erbaba		338IWCi			undetermined	mand incis			
GL363			RM2	10		Turkey	Southwest Turkey	Erbaba		186 CKIII			undetermined	mand incis			
GL165			HH	86		Turkey	SE Anatolia near Divarbakir	Cayonu Tepesi	Village	GHD 5-70	g	9400-9100 BP	undetermined	Jaw frag	PPNA-EPPNB		
GL164		X	HH	84	BK 2718	Turkey	SE Anatolia near Divarbakir	Cayonu Tepesi	Village	18M 1-3	C/LR+P	8600-8000+ BP	undetermined	Jaw frag	LPPNB-post PPNC		
GL166			HH	88	3378	Turkey	SE Anatolia near Divarbakir	Cayonu Tepesi	Village	25L 3-79		8600-8300 BP	undetermined	Jaw frag	LPPNB		
GL163			HH	81	BK1947	Turkey	SE Anatolia near Divarbakir	Cayonu Tepesi	Village	30K 3-0	Poinco	Late 8th Millennium BP	wild?	Jaw frag	Pot Neo (Post PPNC Levantine chronology)		
GL167			HH	90	0	Turkey	SE Anatolia near Divarbakir	Cayonu Tepesi	Village	BG 4-2	sp		undetermined	Jaw frag			
GL339			RR	11		Turkey		Halim Cemi			H4.92 5G23-810		undetermined	maxilla			
GL354			RR	14		Turkey		Halim Cemi			HC92 6F7 718		undetermined	max,permolar			
GL426			RR		6F7 514	Turkey		Halim Cemi			6F7 514		undetermined	mandible fragment			
GL373			RR		6F7 703	Turkey		Halim Cemi			6F7 703		undetermined	Mandible fragment			
GL377			RR		6F7 502	Turkey		Halim Cemi			6F7 502		undetermined	Mandible fragment			

Table 5. A list of all novel obtained, extracted, and sequenced ancient specimens.																	
Extract	Cloned	Exter Replic	Source	Samp #	Spec. #	Country	Location	Site code	Site type	Context	Phase	Dating	Wild/Dom	Element	Notes	ANC1	Haplotype
GL392			RR		#F7 1201	Turkey		Halim Cemi		6F7 1201							
GL969			HH	1	177	Turkey	SE Anatolia near Diyarbakir	Salat Cami Yani	Village			earliest pottery Neolithic	2nd half of 7th millennium BC	domestic	astragalus		
GL970	X		HH	2	222	Turkey	SE Anatolia near Diyarbakir	Salat Cami Yani	Village			earliest pottery Neolithic	2nd half of 7th millennium BC	domestic	caicaneum		
UAE																	
GL149			PK	1		UAE		Kush		A-1900	Sasanian culture	5th - 6th century AD	domestic	Metapodial	Sasanian Islamic occupation mound		
Pakistan																	
GL151			MM2	1		Pakistan		Sehwan Sharif				1350 BC	undetermined	molar			
EAST / CENTRAL EUROPE																	
Croatia																	
GL982			PM1	3	Pup98 1161.1 (203	Croatia	15km w of Rjeika	Pupicina Cave	Cave	Q	Mesolithic	Beta-131626, 9450-10050	wild?		Maxilla with P4-M3		
GL983			PM1	9	Pup98 1161.7 (204	Croatia	15km w of Rjeika	Pupicina Cave	Cave	Q	Mesolithic	Beta-131626, 9450-10050	wild?		Maxilla with M1-M2		
GL981			PM1	10	Pup98 1207.17 (205	Croatia	15km w of Rjeika	Pupicina Cave	Cave	Q	Mesolithic	Beta-131626, 9450-10050	wild		Maxilla with P3-P4		
GL979			PM1	5	Pup 61 (1261)	Croatia	15km w of Rjeika	Pupicina Cave	Cave	Horizon O3	Mesolithic	~9500 Cal BC	wild?		upper I1		
GL979			PM1	2	Pup59 1250	Croatia	15km w of Rjeika	Pupicina Cave	Cave	O2	Mesolithic	9225-9310 Cal BC	wild?		Humerus, distal	conjoins with Pup 59, 1328	ANC-Italy
GL980			PM1	1	Pup96 229.11	Croatia	15km w of Rjeika	Pupicina Cave	Cave	N	Mesolithic	8740-9220 Cal BC	wild?		Metatarsal 4	Articulates with Pup96 228, 16	ANC-Italy
GL726			PM1	1	Pup97 771C 24	Croatia	15km w of Rjeika	Pupicina Cave	Cave	Horizon M1	Mesolithic	8500 cal BC	wild?		lower incisor		ANC-Italy
GL727	X	X	PM1	2	Pup97 768D 38	Croatia	15km w of Rjeika	Pupicina Cave	Cave	Horizon M1	Mesolithic	8500 cal BC	wild?		upper canine		ANC-Italy
GL728			PM1	3	Pup87 564, 37	Croatia	15km w of Rjeika	Pupicina Cave	Cave	Horizon G	Late Neolithic	4300 cal BC	domestic?		astragalus		ANC-Y2-5A
GL729			PM1	4	Pup 17 (24)	Croatia	15km w of Rjeika	Pupicina Cave	Cave	Horizon F	Mid Bronze	1500 cal BC	domestic?				ANC-Csidae
Czech Republic																	
GL30			PM2	1		Czech Rep.	Bohemia	HOMOLKA	open hilltop site, dry	731	ENEolithic	c. 2700-2300 BC	undetermined		fem lo can		ANC-Csidae
GL31			PM2	2		Czech Rep.	Bohemia	HOMOLKA	open hilltop site, dry	7	ENEolithic	c. 2700-2300 BC	undetermined		fem lo can		
GL32			PM2	3		Czech Rep.	Bohemia	HOMOLKA	open hilltop site, dry	39-36-591	ENEolithic	c. 2700-2300 BC	undetermined		fem up can		
GL33			PM2	4		Czech Rep.	Bohemia	HOMOLKA	open hilltop site, dry	56	ENEolithic	c. 2700-2300 BC	undetermined		max M3		ANC-Aside
GL34			PM2	5		Czech Rep.	Bohemia	HOMOLKA	open hilltop site, dry	66	ENEolithic	c. 2700-2300 BC	undetermined		fem lo can		ANC-Aside
GL35			PM2	6		Czech Rep.	Bohemia	HOMOLKA	open hilltop site, dry	747	ENEolithic	c. 2700-2300 BC	undetermined		dp4		ANC-Aside
GL36			PM2	7		Czech Rep.	Bohemia	HOMOLKA	open hilltop site, dry	64	ENEolithic	c. 2700-2300 BC	undetermined		mand inc		ANC-Aside
GL37			PM2	8		Czech Rep.	Bohemia	HOMOLKA	open hilltop site, dry	728	ENEolithic	c. 2700-2300 BC	wild		mand		ANC-Csidae
GL38			PM2	9		Czech Rep.	Bohemia	HOMOLKA	open hilltop site, dry	20	ENEolithic	c. 2700-2300 BC	wild?		mand		ANC-Csidae
GL39			PM2	10		Czech Rep.	Bohemia	HOMOLKA	open hilltop site, dry	732	ENEolithic	c. 2700-2300 BC	domestic		mand M3		ANC-Csidae
GL40			PM2	11		Czech Rep.	Bohemia	HOMOLKA	open hilltop site, dry	100	ENEolithic	c. 2700-2300 BC	undetermined		ast		
GL41			PM2	12		Czech Rep.	Bohemia	HOMOLKA	open hilltop site, dry	102	ENEolithic	c. 2700-2300 BC	wild?		calc		ANC-Csidae
Germany																	
GL115	X		NB	1		Germany	Southern Germany	Allendorf	open site, dry	2	Epipalaeo	12,000-10,000 BC	wild		lower M1/2		ANC-Csidae
GL116			NB	2		Germany	Southern Germany	Allendorf	open site, dry	2	Epipalaeo	12,000-10,000 BC	wild		lower P2+P3+P4		ANC-Csidae
GL117			NB	3		Germany	Southern Germany	Allendorf	open site, dry	3a	Epipalaeo	12,000-10,000 BC	wild		astragalus		
GL119			SH	7		Germany	North-East Germany	Friesack	open site, waterlogged		Mesolithic III/II	8,500-7,500 BC cal	wild		upper incisor		ANC-Csidae
GL538			SH	9		Germany	North-East Germany	Friesack	open site, waterlogged		Mesolithic III/II	8,500-7,500 BC cal	wild		upper incisor		ANC-Csidae
GL120			SH	10		Germany	North-East Germany	Friesack	open site, waterlogged		Mesolithic III/II	8,500-7,500 BC cal	wild		upper incisor		ANC-Csidae
GL539			SH	11		Germany	North-East Germany	Friesack	open site, waterlogged		Mesolithic III/II	8,500-7,500 BC cal	wild		upper can fem		
GL121			SH	12		Germany	North-East Germany	Friesack	open site, waterlogged		Mesolithic III/II	8,500-7,500 BC cal	wild		upper can fem		ANC-Csidae
GL122			SH	16		Germany	North-East Germany	Friesack	open site, waterlogged		Mesolithic III/II	8,500-7,500 BC cal	wild		upper incisor		ANC-Aside
GL118			SH	17		Germany	North-East Germany	Friesack	open site, waterlogged		Mesolithic IV	7,500-5,500 BC cal	wild		lower premolar		
GL537			SH	4		Germany	North-East Germany	Friesack	open site, waterlogged		Mesolithic IV	7,500-5,500 BC cal	wild		lower M3		
GL123			HJD	21	76.471b	Germany	North-East Germany	Eilsleben	open site, dry		LBK	5,500-5,000 BC cal	wild		lower M3		ANC-Csidae
GL124			HJD	22	76.471b	Germany	North-East Germany	Eilsleben	open site, dry		LBK	5,500-5,000 BC cal	wild		lower incisor		ANC-Csidae
GL975			HJD	23	76.484a	Germany	North-East Germany	Eilsleben	open site, dry		LBK	5,500-5,000 BC cal	undetermined		lower premolar		
GL977			HJD	24	83.828k	Germany	North-East Germany	Eilsleben	open site, dry		LBK	5,500-5,000 BC cal	domestic?		upper incisor		ANC-Y1-6A
GL972			HJD	25	85.128u	Germany	North-East Germany	Eilsleben	open site, dry		LBK	5,500-5,000 BC cal	domestic?		upper incisor		ANC-Y1-6A
GL973			HJD	27	85.138u	Germany	North-East Germany	Eilsleben	open site, dry		LBK	5,500-5,000 BC cal	domestic?		lower canine fe		ANC-Y1-6A
GL976			HJD	28	88.485h	Germany	North-East Germany	Eilsleben	open site, dry		LBK	5,500-5,000 BC cal	domestic?		upper P3		ANC-Y1-6A
GL971			HJD	29	80.83i	Germany	North-East Germany	Eilsleben	open site, dry		LBK	5,500-5,000 BC cal	domestic?		upper M1/2		
Greece																	
GL359			MM1	14		Greece	Aegean	Cwest Youra	small island, dry	Layer 10	Mesolithic	7530-7100 BC cal?	wild		rib fraags		
GL381			PH	1		Greece	West Macedonia	MAKRIVYALOS	open, dry	H42114	II	5,400-4,500 BC	wild		mand m3		
GL342			PH	7		Greece	West Macedonia	MAKRIVYALOS	open, dry	O45302	II	5,400-4,500 BC	domestic		fem lo can		
GL462			PH	10		Greece	West Macedonia	MAKRIVYALOS	open, dry	O0681009	I	5,400-4,500 BC	domestic		mand m3		
GL340			PH	11		Greece	West Macedonia	MAKRIVYALOS	open, dry	E0584014	I	5,400-4,500 BC	domestic		mand m3		
GL369			PH	13		Greece	West Macedonia	MAKRIVYALOS	open, dry	E59415	I	5,400-4,500 BC	wild		mand m2-m3		
Hungary																	
GL159			LB			Hungary		Aquinum		kolossy sq.	Roman				law fragment		ANC-Aside
GL185			LB		BT 122	Hungary		Balcsa-Torokvar		AD 1578-1661	Upper Paleo				law fragment		ANC-Aside
GL186			LB		BT 321	Hungary		Balcsa-Torokvar		AD 1578-1667	Upper Paleo				law fragment		ANC-Aside
Italy																	
GL818			AT1	57		Italy	Latium	Fossellone	cave		F21 - Aurignacian	28,000-23,000 BC	wild		mand d1 sn		
GL1002			AT1	58		Italy	Latium	Fossellone	cave		F21 - Aurignacian	28,000-23,000 BC	wild		mand I3 sn		
GL698			AT1	3		Italy	Liguria	Arene Candide	cave	P6	Upper Paleo	24,000-16,000 BC	wild		mand I3		
GL820			AT1	4		Italy	Liguria	Arene Candide	cave	M2	Upper Paleo	24,000-16,000 BC	wild		mand P		
GL832			AT1	5		Italy	Liguria	Arene Candide	cave	M5	Upper Paleo	24,000-16,000 BC	wild		max P		
GL699			AT1	6		Italy	Latium	Palidoro	cave	TL24	Upper Paleo	14,000-13,000 BC	undetermined		max I		
GL696			AT1	1		Italy	Apulia	Grotta Romanelli	cave	RV	Upper Paleo	14,000-7,000 BC	wild		max I2		
GL697			AT1	2		Italy	Apulia	Grotta Romanelli	cave	R70	Upper Paleo	14,000-7,000 BC	wild		max I		
GL703			AT1	10		Italy	Sicily	Grotta dell'Uzzo	cave	F15	Late Mesol	8,500-6,500 BC cal	wild		max I3		
GL844			AT1	13		Italy	Sicily	Grotta dell'Uzzo	cave	F17	Late Mesol	8,500-6,500 BC cal	wild		mand I		

Table 5. A list of all novel obtained, extracted, and sequenced ancient specimens.																				
Extract	Cloned	Exter Replic	Source	Sam #	Spec. #	Country	Location	Site code	Site type	Context	Phase	Dating	Wild/Dom	Element	Notes					
GL854			AT1	15		Italy	Sicily	Grotta dell'Uzzo	cave	F17	Late Meso	8,500-6,500 BC cal	wild	mand p					ANC1	Haplotype
GL1000			AT1	49		Italy	Calabria	Grotta Madonna	cave	F16	Meso	7,000-6,500 BC cal	wild	mand m3						
GL882			AT1	52		Italy	Calabria	Grotta Madonna	cave	tg47	Early Neo	6,500-5,500 BC cal	wild	mand 11 snr						ANC-Italy
GL704			AT1	11		Italy	Sicily	Grotta dell'Uzzo	cave	F11	Meso-Neo transition	6,500-5,500 BC cal	wild	mand p						ANC-Cside
GL856			AT1	16		Italy	Sicily	Grotta dell'Uzzo	cave	F13	Meso-Neo transition	6,500-5,500 BC cal	wild	mand p						
GL736			AT1	17		Italy	Sicily	Grotta dell'Uzzo	cave	F13	Meso-Neo transition	6,500-5,500 BC cal	wild	max p						
GL736		X	AT1	7		Italy	Sicily	Grotta dell'Uzzo	cave	F13	Meso-Neo transition	6,500-5,500 BC cal	wild	mand 1						
GL737			AT1	19		Italy	Sicily	Grotta dell'Uzzo	cave	F13	Meso-Neo transition	6,500-5,500 BC cal	wild	max i						
GL700			AT1	8		Italy	Sicily	Grotta dell'Uzzo	cave	F8	Early Neo	5,500-4,500 BC cal	undetermined	mand i						
GL702			AT1	9		Italy	Sicily	Grotta dell'Uzzo	cave	F7	Early Neo	5,500-4,500 BC cal	undetermined	max p						
GL734			AT1	12		Italy	Sicily	Grotta dell'Uzzo	cave	F10	Early Neo	5,500-4,500 BC cal	undetermined	mand i						
GL849		X	AT1	46		Italy	Calabria	Grotta Madonna	cave	tg41	Mid Neo	5,500-4,500 BC cal	undetermined	max 1						ANC-Italy
GL893			AT1	47		Italy	Calabria	Grotta Madonna	cave	tg40	Mid Neo	5,500-4,500 BC cal	undetermined	max P4						
GL1001			AT1	56		Italy	Calabria	Grotta Madonna	cave	tg38	Mid Neo	5,500-4,500 BC cal	undetermined	max C fem						
GL847			AT1	23		Italy	Latum	Marmotta 98	lake dwelling, waterlogged	13090 IV	Early Neo	c. 5,500 BC cal	undetermined	mand i						
GL852			AT1	22		Italy	Latum	Grotta dell'Uzzo	cave	F4	Early Neo	c. 5,500 BC cal	undetermined	max m3						
GL701			AT1	8		Italy	Sicily	Grotta dell'Uzzo	cave	F14	Mid Neo	4,500-4,000 BC cal	undetermined	max p2						
GL680			AT1	43		Italy	Apulia	Masseria Candellaro	trenched settlement, dry	Cll	Early Neo	4,500-4,000 BC cal	undetermined	low canine fe						
GL998			AT1	44		Italy	Apulia	Masseria Candellaro	trenched settlement, dry	Cll	Early Neo	4,500-4,000 BC cal	undetermined	lower incisor						
GL999			AT1	45		Italy	Apulia	Masseria Candellaro	trenched settlement, dry	Cll	Early Neo	4,500-4,000 BC cal	undetermined	max M1/2						
GL746			CM1/SS	1		Italy	Erna Province, Sicily	Tronia	refuse deposit from hut	CS11	Copper Age	3500BC cal	domestic?	radius						Serrafellicchio culture. 850m above sea level
GL715			CM1/SS	4		Italy	Erna Province, Sicily	Tronia	refuse deposit from hut	CS4	Copper Age	3500BC cal	domestic?	humerus						Serrafellicchio culture. 850m above sea level
GL842			AT1	53		Italy	Calabria	Grotta Madonna	cave	tg14	Early Bronze	c. 2,000 BC cal	undetermined	max P3						
GL738			AT1	54		Italy	Calabria	Grotta Madonna	cave	tg11	Mid Bronze	c. 1,500 BC cal	domestic?	mand 11						ANC-Aside
GL739			AT1	55		Italy	Calabria	Grotta Madonna	cave	tg13	Mid Bronze	c. 1,500 BC cal	domestic?	max p4						
GL467			AT1	84		Italy	Apulia	Torre Mordillo 89	open, dry	E9 ci 2	Late Bronze	Late 2nd - early 1st mil. BC	undetermined	upper can fem						ANC-Aside
GL483			AT1	85		Italy	Apulia	Torre Mordillo 89	open, dry	E9 ell 2	Late Bronze	Late 2nd - early 1st mil. BC	undetermined	upper 11						
GL183			AT1	86		Italy	Apulia	Torre Mordillo 89	open, dry	E9 ci d 2	Late Bronze	Late 2nd - early 1st mil. BC	domestic?	upper 11						ANC-Aside
GL184			AT1	87		Italy	Apulia	Torre Mordillo 89	open, dry	E11 aIV 3l	Late Bronze	Late 2nd - early 1st mil. BC	domestic?	lower inc						ANC-Aside
GL304			AT1	88		Italy	Apulia	Torre Mordillo	open, dry	E9 ell 2/1	Late Bronze	Late 2nd - early 1st mil. BC	undetermined	lower inc						
GL857			FM1	1		Italy	North Sardinia	Santu Antine	stone structure, dry	109	Late Bronze	c. 1,400-1,200 BC cal	dom/feral	P3 sup						ANC-Cside
GL833			FM1	2		Italy	North Sardinia	Santu Antine	stone structure, dry	109	Late Bronze	c. 1,400-1,200 BC cal	dom/feral	I1 sup						
GL344			FM1	4		Italy	North Sardinia	Santu Antine	stone structure, dry	109	Late Bronze	c. 1,400-1,200 BC cal	dom/feral	P sup						ANC-Aside
GL338			FM1	5		Italy	North Sardinia	Santu Antine	stone structure, dry	104	Late Bronze	c. 1,400-1,200 BC cal	dom/feral	I1 sup						ANC-Aside
GL336			FM1	18		Italy	Central Sardinia	Arubiu	stone structure, dry	B4966	Late Bronze	c. 1,400-1,200 BC cal	dom/feral	I inf						ANC-Aside
GL872			AT1	24		Italy	Veneto	Concordia Saaditaria	open site, dry	897	Late bronze	13th-9th cent. BC	undetermined	max i						
GL884			AT1	25		Italy	Veneto	Concordia Saaditaria	open site, dry	897	Late bronze	13th-9th cent. BC	domestic?	mand i						ANC-Cside
GL884			AT1	26		Italy	Veneto	Concordia Saaditaria	open site, dry	904	Late bronze	13th-9th cent. BC	undetermined	mand can f						
GL337			OF	19		Italy	Central Sardinia	Arubiu	stone structure, dry	B4496	FinalBronze/Early Iron	c. 1,200-900 BC cal	dom/feral	I inf						
GL892			OF	20		Italy	Central Sardinia	Arubiu	stone structure, dry	B3047	FinalBronze/Early Iron	c. 1,200-900 BC cal	dom/feral	I1 sup						ANC-Italy
GL895		X	OF	21		Italy	Central Sardinia	Arubiu	stone structure, dry	B4495	FinalBronze/Early Iron	c. 1,200-900 BC cal	dom/feral	I inf						ANC-Italy
GL881		X	OF	22		Italy	Central Sardinia	Arubiu	stone structure, dry	B3049	FinalBronze/Early Iron	c. 1,200-900 BC cal	dom/feral	I inf						ANC-Italy
GL874			FM1	10		Italy	Sardinia	Sant'Imbenia	stone structure, dry	10220	dom/feral	c. 900-600 BC	dom/feral	C inf female						
GL346			FM1	12		Italy	North Sardinia	Sant'Imbenia	stone structure, dry	19758	dom/feral	c. 900-600 BC	dom/feral	I inf						ANC-Cside
GL334			FM1	13		Italy	North Sardinia	Sant'Imbenia	stone structure, dry	21227	dom/feral	c. 900-600 BC	dom/feral	C inf female						ANC-Aside
GL817			FM1	15		Italy	North Sardinia	Sant'Imbenia	stone structure, dry	21292	dom/feral	c. 900-600 BC	dom/feral	I1 sup						
GL811			FM1	16		Italy	North Sardinia	Sant'Imbenia	stone structure, dry	21292	dom/feral	c. 900-600 BC	dom/feral	I inf						
GL329			JG2/CM2	77		Italy	Rome	Quirinale	urban, dry		1st cent. AD	1st cent. AD	domestic?	lower 1						ANC-Aside
GL867			JG2/CM2	77		Italy	Rome	Quirinale	urban, dry		1st cent. AD	1st cent. AD	domestic?	lower 1						
GL813			JG2/CM2	83		Italy	Rome	Quirinale	urban, dry		1st cent. AD	1st cent. AD	domestic?	lower M3						
GL873			JG2/CM2	93		Italy	Rome	Arco di Costantino	urban, dry	93	1st cent. AD	1st cent. AD	domestic?	lower inc						ANC-Aside
GL475			JG2/CM2	90		Italy	Rome	Arco di Costantino	urban, dry	65	2nd cent. AD	2nd cent. AD	undetermined	upper can fem						
GL722		X	JG2/CM2	40	2589	Italy	Rome	Crypta Balbi	urban, dry		7th cent AD	7th cent AD	undetermined	canine fe						ANC-Italy
GL706			JG2/CM2	34	3151	Italy	Rome	Crypta Balbi	urban, dry		7th cent AD	7th cent AD	undetermined	mand m2						ANC-Cside
GL708			JG2/CM2	35	3991	Italy	Rome	Crypta Balbi	urban, dry		8th cent AD	8th cent AD	domestic?	mand C female						ANC-Aside
GL707			JG2/CM2	35	3991	Italy	Rome	Crypta Balbi	urban, dry		8th cent AD	8th cent AD	wild?	max m3						ANC-Italy
GL708			JG2/CM2	36	6127	Italy	Rome	Crypta Balbi	urban, dry		8th cent AD	8th cent AD	wild?	cuboid						ANC-Italy
GL709		X	JG2/CM2	37	4158	Italy	Rome	Crypta Balbi	urban, dry		8th cent AD	8th cent AD	undetermined	canine fe						ANC-Aside
GL720			JG2/CM2	38	4166	Italy	Rome	Crypta Balbi	urban, dry		8th cent AD	8th cent AD	undetermined	canine fe						ANC-Cside
GL723			JG2/CM2	59	7248	Italy	Rome	Crypta Balbi	urban, dry		8th cent AD	8th cent AD	undetermined	canine fe						ANC-Aside
GL731			JG2/CM2	60	11804	Italy	Rome	Crypta Balbi	urban, dry		9th cent AD	9th cent AD	undetermined	mand C female						ANC-Aside
GL732			JG2/CM2	61	11803	Italy	Rome	Crypta Balbi	urban, dry		9th cent AD	9th cent AD	undetermined	mand C female						ANC-Aside
GL733			JG2/CM2	62	10583	Italy	Rome	Crypta Balbi	urban, dry		9th cent AD	9th cent AD	undetermined	mand C female						ANC-Aside
GL496			JG2/CM2	63	13793	Italy	Rome	Crypta Balbi	urban, dry		10th cent AD	10th cent AD	wild?	mand C female						ANC-Italy
GL501			JG2/CM2	65	12382	Italy	Rome	Crypta Balbi	urban, dry		10th cent AD	10th cent AD	undetermined	mand C fem						ANC-Aside
GL325			JG2/CM2	66	13803	Italy	Rome	Crypta Balbi	urban, dry		10th cent AD	10th cent AD	undetermined	mand C fem						ANC-Aside
GL472		X	JG2/CM2	67	12399	Italy	Rome	Crypta Balbi	urban, dry		10th cent AD	10th cent AD	undetermined	lower 1						ANC-Aside
GL460			JG2/CM2	68	12386	Italy	Rome	Crypta Balbi	urban, dry		10th cent AD	10th cent AD	undetermined	mand i						ANC-Aside
GL455			JG2/CM2	69	13816	Italy	Rome	Crypta Balbi	urban, dry		10th cent AD	10th cent AD	undetermined	lower 1						ANC-Aside
GL440			JG2/CM2	71	13817	Italy	Rome	Crypta Balbi	urban, dry		10th cent AD	10th cent AD	undetermined	lower 1						ANC-Aside
GL452			JG2/CM2	73	13778	Italy	Rome	Crypta Balbi	urban, dry		10th cent AD	10th cent AD	domestic	lower M3						ANC-Aside
GL372			CM2	94	4416	Italy	Tuscany	Cencelle	open, dry		14th-15th cent. AD	14th-15th cent. AD	wild	mand C male						ANC-Italy
GL464			CM2	95	4415	Italy	Tuscany	Cencelle	open, dry		14th-15th cent. AD	14th-15th								

Table S. A list of all novel obtained, extracted, and sequenced ancient specimens.

Extract	Cloned	Exter Replic	Source	Sam #	Spec. #	Country	Location	Site code	Site type	Context	Period	Dating	Wild/Dom	Element	Notes	ANC1	Haplotype	
GL988		AD	Romania	5		Romania	Drobeta-Turnu Severin	Schela Cladovei	open air	0.82-0.87	Mesolithic	7134-6851 BC cal.	wild?	tooth fragment			ANC-Aside	
GL370		AD	Romania	16		Romania	Drobeta-Turnu Severin	Schela Cladovei	open air	GE. ~1.00m	Mesolithic		wild?	tooth fragment			ANC-Aside	
GL899		AB	Romania	1	103	Romania	Teleorman County	Măgura	open air	Sondage 22 Comp	Neolithic	6000 BC cultural		M2, M3	Chris Culture			
GL900		AB	Romania	2	104	Romania	Teleorman County	Măgura	open air	Sondage 19 Comp	Neolithic	5500 BC		M1	Early Dudesi / Karanovo III		ANC-Y1-6A	
GL903		AB	Romania	3	105	Romania	Teleorman County	Măgura	open air	Sondage 20 Comp	Neolithic	5500 BC		Pd4, M1, M2 (+/-)	Early Dudesi / Karanovo III		ANC-Y1-6A	
GL904		AB	Romania	4	106	Romania	Teleorman County	Măgura	open air	Sondage 22 Comp	Neolithic	5200 BC		M1, M2 (+/-)	Late Dudesi			
GL905		AB	Romania	5	107	Romania	Teleorman County	Măgura	open air	Sondage 22 Comp	Neolithic	5200 BC		M1	Late Dudesi			
GL375		AD	Romania	11		Romania	Iron Gates Canyon	Veterani cave	cave	S.III. ~3.05m	Neolithic	5300 - 5000 BC?			tooth fragment	Starcevo culture		ANC-Aside
GL687		AB	Romania	3	1019	Romania	Ialomița County	Borduşani 2002	tell	US 3646	Chalcolithic	4500-3950 BC cal	wild	law fragment	Gumelnita A2			
GL521		AB	Romania	1	1023	Romania	Ialomița County	Borduşani	tell		Chalcolithic	4500-3950 BC	wild	inferior M2	Gumelnita culture		ANC-Y1-6A	
GL522		AB	Romania	2	1	Romania	Bacău county	Poduri	tell	pit 55	Chalcolithic	4500-4250 BC cal	domestic	inferior Pm2	7-8 months / Cucuteni culture A2		ANC-Y1-6A	
GL523		AB	Romania	3	2	Romania	Bacău county	Poduri	tell	pit 56	Chalcolithic	4500-4250 BC cal	domestic	superior 7	9-10 months / Cucuteni culture A2		ANC-Y1-6A	
GL688		AD	Romania	4	23	Romania	Bacău county	Poduri 2001	tell		Chalcolithic	4500-4250 BC	wild	law fragment	Cucuteni culture A2		ANC-Aside	
GL566		AD	Romania	7	5041	Romania	Calărași Cnty, Island nr Giurgiu	Căscioarele A	tell	level -1.05m	Chalcolithic	mid 5th - mid 4th millennium BC	wild	premolar 4	Gumelnita culture		ANC-Aside	
GL567		AD	Romania	6	5151	Romania	Calărași Cnty, Island nr Giurgiu	Căscioarele A	tell	1.30 - 1.55m	Chalcolithic	mid 5th - mid 4th millennium BC	wild	incisor	Gumelnita culture		ANC-Aside	
GL568		AD	Romania	7	5157	Romania	Calărași Cnty, Island nr Giurgiu	Căscioarele A	tell	1.30 - 1.55m	Chalcolithic	mid 5th - mid 4th millennium BC	domestic	premolar 3/4	Gumelnita culture		ANC-Y1-6A	
GL569		AD	Romania	8	5058	Romania	Calărași Cnty, Island nr Giurgiu	Căscioarele A	tell	level -1.05m	Chalcolithic	mid 5th - mid 4th millennium BC	wild	premolar 3/4	Gumelnita culture		ANC-Y1-6A	
GL576		AD	Romania	10	5138	Romania	Calărași Cnty, Island nr Giurgiu	Căscioarele A	tell		Chalcolithic	mid 5th - mid 4th millennium BC	domestic	tooth fragment	Gumelnita culture		ANC-Y1-6A	
GL868		AD	Romania	11	5142	Romania	Calărași Cnty, Island nr Giurgiu	Căscioarele A	tell		Chalcolithic	mid 5th - mid 4th millennium BC	domestic	tooth fragment	Gumelnita culture		ANC-Y1-6A	
GL575		AD	Romania	12	5150	Romania	Calărași Cnty, Island nr Giurgiu	Căscioarele A	tell		Chalcolithic	mid 5th - mid 4th millennium BC	wild	tooth fragment	Gumelnita culture		ANC-Aside	
GL803		AD	Romania	14	5159	Romania	Calărași Cnty, Island nr Giurgiu	Căscioarele A	tell		Chalcolithic	mid 5th - mid 4th millennium BC	domestic	tooth fragment	Gumelnita culture		ANC-Y1-6A	
GL834		AD	Romania	15	5198	Romania	Calărași Cnty, Island nr Giurgiu	Căscioarele A	tell		Chalcolithic	mid 5th - mid 4th millennium BC	wild	tooth fragment	Gumelnita culture		ANC-Y1-6A	
GL987		AD	Romania	4	32167	Romania	Calărași Cnty, Island nr Giurgiu	Căscioarele	tell		Chalcolithic	mid 5th - mid 4th millennium BC	undetermined	law fragment	Gumelnita culture		ANC-Y1-6A	
GL563		AD	Romania	1	126	Romania	Călărași County	Vărăști	tell	Boian B, level 3, at	Middle/Late Neo - Eneo	5th Millennium BC?	undetermined	premolar 4, left	Boian & Gumelnita culture			
GL564		AD	Romania	2	146	Romania	Călărași County	Vărăști	tell	level 4, area A	Middle/Late Neo - Eneo	5th Millennium BC?	undetermined	premolar 3/4	Boian & Gumelnita culture			
GL447		AD	Romania	3	155	Romania	Călărași County	Vărăști	tell	level 4, area B	Middle/Late Neo - Eneo	5th Millennium BC?	undetermined	incisor 1,2	Boian & Gumelnita culture		ANC-Aside	
GL565		AD	Romania	4	98	Romania	Călărași County	Vărăști	tell	level 4, area B	Middle/Late Neo - Eneo	5th Millennium BC?	undetermined	premolar 3/4	Boian & Gumelnita culture		ANC-Y1-6A	
GL1033		AB	Romania	5	599	Romania	Constanța County	Hârșova	tell	Cernavoda	Chalcolithic	4100-3400 BC	undetermined	tooth lower M2	Culture Cernavoda I culture			
GL689		AB	Romania	9	1713	Romania	Constanța County	Hârșova 2001	tell	Gumelnita A2	Chalcolithic	4500-3950 BC	wild	law fragment	Gumelnita A2 culture			
GL690		AB	Romania	10	727	Romania	Constanța County	Hârșova 1996	tell	Gumelnita A2	Chalcolithic	4500-3950 BC	wild	law fragment	Gumelnita A2 culture			
GL691		AB	Romania	13	1903	Romania	Constanța County	Hârșova 2002	tell	Gumelnita A2	Chalcolithic	4500-3950 BC	undetermined	law fragment	Gumelnita A2 culture			
GL692		AB	Romania	17	206	Romania	Giurgiu County	Bucșani 2001	tell	Gumelnita B1	Chalcolithic	4300-3900 BC	domestic	law fragment	Gumelnita B1 culture			
GL693		AB	Romania	18	578	Romania	Giurgiu County	Bucșani 2004	tell	Gumelnita B1	Chalcolithic	4300-3900 BC	wild	law fragment	Gumelnita B1 culture			
GL1031		VD	Romania	3	13	Romania	Ilfou County	Popești	open air	pit	Bronze Age	3000-1600 BC?	domestic	Mandibula right			ANC-Aside	
GL1032		VD	Romania	4	14	Romania	Ilfou County	Popești	open air	pit	Bronze Age	3000-1600 BC?	domestic	Mandibula right			ANC-Aside	
GL1030		AB	Romania	2	29	Romania	Buzău County	Cărnănești 2003, Cpl. 4	open air	pit 4	Bronze Age	3000-1600 BC	domestic	Mandibula right	Monteoru culture		ANC-Aside	
GL906		VD	Romania	6	1	Romania	Ialomița	Bucu 2004	open air	Sondage LXI and	Hallstatt	1000-800 BC		Pd3, Pd4			ANC-Aside	
GL150		VD	Romania	2	15	Romania	Ilfou County	Popești	open air	pit	Hallstatt	10th century BC	domestic	mandible			ANC-Aside	
GL1034		VD	Romania	6	16	Romania	Ilfou County	Popești	open air	pit	Hallstatt C	900 - 150 BC?	domestic	Mandibula right			ANC-Aside	
GL1035		VD	Romania	7	17	Romania	Ilfou County	Popești	open air	pit	La Tene	800 - 150 BC?	domestic	Mandibula right			ANC-Aside	
GL1036		AB	Romania	13	134	Romania	Constanța County	Durostorum	open air	pit 33	Epoque Roman	300-400 AD	domestic	Mandibula left			ANC-Aside	
GL1037		AB	Romania	14	135	Romania	Constanța County	Durostorum	open air	pit 33	Epoque Roman	300-400 AD	domestic	Mandibula right			ANC-Aside	
Switzerland																		
GL362		JS	Switzerland	1		Switzerland	Zürich-Mozartstrasse	MZ	lake dwelling	5876	Late neolithic	4u (3688-3661 BC cal)	undetermined	mand	Pfyn culture			
GL363		JS	Switzerland	6		Switzerland	Zürich-Mozartstrasse	MZ	lake dwelling	4936	Late neolithic	4c (3613-3600 BC cal)	undetermined	mand	Pfyn culture			
GL828		JS	Switzerland	13		Switzerland	Zürich-Mozartstrasse	MZ	lake dwelling	4592	Late neolithic	4c (3613-3600 BC cal)	undetermined	mand	Pfyn culture			
GL5		JS	Switzerland	8		Switzerland	Zürich-Mozartstrasse	MZ	lake dwelling	5431	Late neolithic	3u (3126-3098 BC cal)	undetermined	max	Horgen culture			
GL870		JS	Switzerland	16		Switzerland	Zürich-Mozartstrasse	MZ	lake dwelling	1931	Late neolithic	3a (3126-3098 BC cal)	undetermined	max incis	Horgen culture			
GL3a		JS	Switzerland	26		Switzerland	Zürich-Seefeld	SEE	lake dwelling	1594	Late neolithic	E (2718-2710 BC cal)	undetermined	mand inc	Corded Ware culture			
GL12		JS	Switzerland	27		Switzerland	Zürich-Seefeld	SEE	lake dwelling	724	Late neolithic	E (2718-2710 BC cal)	undetermined	mand can fe	Corded Ware culture			
GL13		JS	Switzerland	28		Switzerland	Zürich-Seefeld	SEE	lake dwelling	674	Late neolithic	E (2718-2710 BC cal)	undetermined	max inc	Corded Ware culture			
GL14		JS	Switzerland	29		Switzerland	Zürich-Seefeld	SEE	lake dwelling	7	Late neolithic	E (2718-2710 BC cal)	undetermined	mand m3	Corded Ware culture			
GL6		JS	Switzerland	31		Switzerland	Birsamten-Basissgrotte	BB	Abri		late mesolithic	OS (-6000-5500 BC cal)	undetermined	mand	anc			
GL7		JS	Switzerland	32		Switzerland	Birsamten-Basissgrotte	BB	Abri		late mesolithic	OS (-6000-5500 BC cal)	undetermined	mand m3	anc			
GL8		JS	Switzerland	33		Switzerland	Birsamten-Basissgrotte	BB	Abri		late mesolithic	OS (-6000-5500 BC cal)	undetermined	mand can f	anc			
GL7		JS	Switzerland	34		Switzerland	Birsamten-Basissgrotte	BB	Abri		late mesolithic	OS (-6000-5500 BC cal)	undetermined	mand m3	anc			
GL9		JS	Switzerland	35		Switzerland	Birsamten-Basissgrotte	BB	Abri		mesolithic	E	undetermined	mand can f	anc			
GL10		JS	Switzerland	36		Switzerland	Birsamten-Basissgrotte	BB	Abri		mesolithic	N4	undetermined	mand can fe	anc			
GL489		JS	Switzerland	38		Switzerland	Zürich-Mozartstrasse	MZ	lake dwelling		Bronze Age	1u (19th century BC cal)	undetermined	max m3				
GL466		JS	Switzerland	39		Switzerland	Zürich-Mozartstrasse	MZ	lake dwelling	1473	Bronze Age	1o (18th century BC cal)	undetermined	?				
GL435		JS	Switzerland	40		Switzerland	Zürich-Mozartstrasse	MZ	lake dwelling	6859	Bronze Age	1o (18th century BC cal)	undetermined	?				
GL2		JS	Switzerland	39		Switzerland	Arbon-Bleiche 3	ARBON	lake dwelling	4199	Late neolithic	3384-3370 BC cal)	domestic?	mand can f	early Horgen culture			
GL20		JS	Switzerland	40		Switzerland	Arbon-Bleiche 3	ARBON	lake dwelling	5086	Late neolithic	3384-3370 BC cal)	domestic?	mand can f	early Horgen culture			
GL21		JS	Switzerland	41		Switzerland	Arbon-Bleiche 3	ARBON	lake dwelling	8978	Late neolithic	3384-3370 BC cal)	domestic?	mand can f	early Horgen culture			
GL22		JS	Switzerland	42		Switzerland	Arbon-Bleiche 3	ARBON	lake dwelling	7949	Late neolithic	3384-3370 BC cal)	domestic?	mand can f	early Horgen culture			
GL18		JS	Switzerland	43		Switzerland	Arbon-Bleiche 3	ARBON	lake dwelling	8603	Late neolithic	3384-3370 BC cal)	domestic?	mand can f	early Horgen culture			
GL23		JS	Switzerland	44		Switzerland	Arbon-Bleiche 3	ARBON	lake dwelling	7148	Late neolithic	3384-3370 BC cal)	domestic?	mand can f	early Horgen culture			
GL24		JS	Switzerland	45		Switzerland	Arbon-Bleiche 3	ARBON	lake dwelling	2257	Late neolithic	3384-3370 BC cal)	domestic?	mand can f	early Horgen culture			
GL25		JS	Switzerland	46		Switzerland	Arbon-Bleiche 3	ARBON	lake dwelling	8729	Late neolithic	3384-3370 BC cal)	wild?	max incis	early Horgen culture			
GL26		JS	Switzerland	47		Switzerland	Arbon-Bleiche 3	ARBON	lake dwelling	7968	Late neolithic	3384-3370 BC cal)	wild?	max incis	early Horgen culture			
GL27		JS	Switzerland	48		Switzerland	Arbon-Bleiche 3	ARBON	lake dwelling	7	Late neolithic	3384-3370 BC cal)	wild?	max incis	early Horgen culture			
GL28		JS	Switzerland	49		Switzerland	Arbon-Bleiche 3	ARBON	lake dwelling	9974	Late neolithic	3384-3370 BC cal)	wild?	max incis	early Horgen culture			
GL16		JS	Switzerland	50		Switzerland	Arbon-Bleiche 3	ARBON	lake dwelling	10446	Late neolithic	3384-3370 BC cal)	wild?	max incis	early Horgen culture			
GL17		JS	Switzerland	51		Switzerland	Arbon-Bleiche 3	ARBON	lake dwelling	5527	Late neolithic	3384-3370 BC cal)	wild?	max m1/2	early Horgen culture			
GL15		JS	Switzerland	52		Switzerland	Arbon-Bleiche 3	ARBON	lake dwelling	5777	Late neolithic	3384-3370 BC cal)	wild?	max m3	early Horgen culture			
GL510		JS	Switzerland	1	C08988	Switzerland	Augusta Raurica	Kastelen	roman town		Roman	0-50 AD	domestic	Incisor (deciduous)	</			

Table 5. A list of all novel obtained, extracted, and sequenced ancient specimens.																	
Accession	Cloned	Exter Replic	Source	Sample #	Spec. #	Country	Location	Site code	Site type	Context	Phase	Dating	Wild/Dom	Element	Notes	ANC1	Haplotype
ASPIA2			JS	4		Switzerland	Untervaz-Haselboden	2001	settlement	cultural layer	Neolithic	3600-3150BC C14 1sigma cal	wild?	domestic			
ASPIA7			JS	5		Switzerland	Untervaz-Haselboden	2001	settlement	cultural layer	Neolithic	2810+/-50BC	wild?	domestic	early Horgen culture		
GL1021			JS	5		Switzerland	Cazis-Petrushügel	1981	settlement	cultural layer	Neolithic	29th/28th century BC - typological/cult	wild?	M3 max	late Horgen culture		
ASPIA7			JS	7		Switzerland	Cazis-Petrushügel	1981	settlement	cultural layer	Neolithic	29th/28th century BC	wild?	Humerus	late Horgen culture		
GL1022			JS	8		Switzerland	Cazis-Petrushügel	1981	settlement	cultural layer	Neolithic	29th/28th century BC	domestic	C max female	late Horgen culture		ANC-Cside
ASPIA9			JS	9		Switzerland	Cazis-Petrushügel	1981	settlement	cultural layer	Neolithic	29th/28th century BC	domestic	Occipitale, Proc. S	late Horgen culture		ANC-Aside
GL1023		X	JS	10		Switzerland	Cazis-Petrushügel	1981	settlement	cultural layer	Neolithic	29th/28th century BC	wild?	Radius	late Horgen culture		ANC-Aside
GL1024		X	JS	11		Switzerland	Untervaz-Haselbodenschenke	2003	settlement	cultural layer	Neolithic	27th - 25th century BC	wild	Humerus	Corded Ware culture		ANC-Cside
GL1035		X	JS	12		Switzerland	Untervaz-Haselbodenschenke	2003	settlement	cultural layer	Neolithic	27th - 25th century BC	domestic	Tibia	late Horgen culture		ANC-Aside
GL1026			JS	14		Switzerland	Untervaz-Haselbodenschenke	2003	settlement	cultural layer	Neolithic	27th - 25th century BC	wild	Astragalus	Corded Ware culture		ANC-Cside
ASPIA15			JS	15		Switzerland	Untervaz-Haselbodenschenke	2003	settlement	cultural layer	Neolithic	38th - 36th century BC	wild	Cuboid	PIVn culture		ANC-Cside
Ukraine																	
GL128		X	NB	1		Ukraine	South Crimea	Span-Koba	open, dry	1/2/10	Mesolithic	9th-8th mil BC cal	wild?	lower ilk incis	chrt. layer-horizon-quadrant (was listed as 1/2/10)		ANC-Y2-5A
GL535			NB	4		Ukraine	South Crimea	Shan-Koba	open, dry	1	Early Neo	7th mil BC cal	undetermined	lower M1/2	chrt. layer		
GL536/808			NB	5		Ukraine	South Crimea	Shan-Koba	open, dry	1	Early Neo	7th mil BC cal	wild?	lower M1/2	chrt. layer		ANC-Y2-5A
GL129			NB	6		Ukraine	South Crimea	Fatma Koba	open, dry	3	Enolithic	?	undetermined	lower M1/2	chrt. layer		
WEST / NORTH EUROPE																	
Belgium																	
GL158		SVP				Belgium	Falaen, Wallonia	Montaijele	Castellum	MO 8006	Roman	Late 2nd - 5th Century AD	domestic	isolated teeth			
GL314			X	AE	4000N	Belgium	Flanders, nr Coostende	Oudenburg	Castellum	4000N	Late Roman/Early Medieval	no precise dates	domestic	canine			ANC-Aside
GL215			AE	2000D		Belgium	Flanders, nr Coostende	Oudenburg	Castellum	2000D	Late Roman/Early Medieval	no precise dates	domestic	molar			ANC-Aside
Denmark																	
GL152			KA-S	3	KS35/27-37	Denmark	NW Zealand	Kongemosen	open	KS35/27-37	mid meso	6400-5400 BC	wild	lower I			
GL502			KA-S	1	ZMK 2/1918	Denmark	S. Zealand	Svaerdborg I-1917	lake edge, now bog	ZMK 2/1918	early meso	7200-6800 BC	wild	three incisors			
GL309			KA-S	2	ZMK 37/1982	Denmark	NE Zealand	Bløksbjerg, Klampenborg	open	ZMK 37/1982	late meso (early part)	5400-4500 BC	wild	three incisors			
GL429			KA-S	3	ZMK 11/1915	Denmark	NE Zealand	Bløksbjerg, Klampenborg	open	ZMK 11/1915	late meso (late part)	5400-4500 BC	wild	three incisors			
GL429			KA-S	4	ZMK 119/1971	Denmark	E. Jutland	Flynderhøge	open	ZMK 119/1971	late meso (late part)	4500-3900 BC	wild	three incisors			ANC-Cside
GL468			KA-S	5	ZMK 17/1935	Denmark	Als	Bundso	causewayed camp, open	ZMK 17/1935	mid neo A phase III	2800-2600 BC	domestic	three incisors			
GL486			KA-S	6	ZMK 13/1906	Denmark	Langeland	Troldebjerg	causewayed camp, open	ZMK 13/1906	mid neo A phase III	3200-3000 BC	domestic	three incisors			
KA-S			7	ZMK 37/1909	Denmark		Joidtofte	settlement, open	ZMK 37/1909	late bronze age		1900-500 BC	domestic	three canines			
GL458			KA-S	8	ZMK 14/1899	Denmark	Lolland	Vejleby	settlement, open	ZMK 14/1899	Roman iron age	AD 0-400	domestic	three incisors			
GL306			KA-S	9	ZMK 25/1934	Denmark	central Zealand	Trelleborg	Viking fortress, open	ZMK 25/1934	early medieval	c. AD 1000	domestic				ANC-Aside
GL907			KA-S	1	Z.M.K. 119/1971	Denmark	E. Jutland	Flynderhøge	open	Z.M.K. 119/1971	late mesolithic	4500-3900 BC	wild	tooth fragment			ANC-Cside
GL908			KA-S	2	Z.M.K. 119/1971	Denmark	E. Jutland	Flynderhøge	open	Z.M.K. 119/1971	late mesolithic	4500-3900 BC	wild	tooth fragment			
GL909			KA-S	4	Z.M.K. 13/1906	Denmark	Langeland	Troldebjerg	causewayed camp, open	Z.M.K. 13/1906	middle neolithic	3200-3000 BC	domestic	tooth fragment			
GL910			KA-S	5	Z.M.K. 13/1906	Denmark	Langeland	Troldebjerg	causewayed camp, open	Z.M.K. 13/1906	middle neolithic	3200-3000 BC	domestic	tooth fragment			
England																	
A211			AC	P1	CPC-98-1112	England	Derbyshire	Carsington Pasture Cave	Cave	surface of 2nd chamber					left pelvis		
A212			AC	P2	CPC-98-2218	England	Derbyshire	Carsington Pasture Cave	Cave	below 2nd chamber	Mesolithic	4393 ± 41 cal BC	wild	right mandible			ANC-Cside
A213			AC	P3	CPC-98-2330	England	Derbyshire	Carsington Pasture Cave	Cave	below 3rd chamber	Mesolithic	6673 ± 61 cal BC	wild	right tibia			ANC-Aside
A214			AC	P4	CPC-98-1109	England	Derbyshire	Carsington Pasture Cave	Cave	surface of 2nd chal	Late Bronze Age	1130 ± 63 cal BC	domestic	left humerus			ANC-Aside
A215			AC	P5	CPC-98-2280	England	Derbyshire	Carsington Pasture Cave	Cave	surface of 3rd chal	Late Bronze Age	1158 ± 60 cal BC	domestic	left radius			ANC-Aside
A216			AC	P6	CPC-98-2325	England	Derbyshire	Carsington Pasture Cave	Cave	below 3rd chamber	Early Neolithic	3457 ± 58 cal BC	domestic	right scapula			ANC-Aside
A217			AC	P7	CPC-88-7	England	Derbyshire	Carsington Pasture Cave	Cave	below 2nd chamber	Late Neolithic	2327 ± 82 cal BC	domestic	atlas			ANC-Aside
GL524			UA	11		England	Wiltshire	Durrington Walls 04	enclosure, dry	019 (3316)	Late Neolithic	2800-2400 BC cal	domestic	mand frag M3			ANC-Aside
GL525			UA	12		England	Wiltshire	Durrington Walls 04	enclosure, dry	019 (1463)	Late Neolithic	2800-2400 BC cal	domestic	metatarsal I			ANC-Aside
GL526			UA	16		England	Wiltshire	Durrington Walls 04	enclosure, dry	019 (1470)	Late Neolithic	2800-2400 BC cal	domestic	upper II			ANC-Aside
GL527			AH	1		England	Gloucestershire	Cheshworth Roman villa	villa, open, dry	12	Roman	1st-5th cent AD	domestic?	astragalus			ANC-Aside
GL530			UA	25		England	York	Coppergate	urban, dry	1986.9	Roman	1st-5th cent AD	domestic?	tooth fragment			ANC-Aside
GL531			UA	27		England	York	Coppergate	urban, dry	1986.9	Roman	1st-5th cent AD	domestic?	tooth fragment			ANC-Aside
GL532			UA	29	AB3	England	York	Swinegate	urban, dry	4014	Roman	1st-5th cent AD	domestic?	tooth fragment			ANC-Aside
GL533			UA	31	AB6	England	York	Swinegate	urban, dry	4086	Roman	1st-5th cent AD	domestic?	tooth fragment			ANC-Aside
GL327			UA	5		England	York	Fishergate	urban	1986.9	Roman?	1st-5th cent AD	domestic?	tooth fragment			ANC-Aside
GL157			UA	6		England	York	Fishergate	urban	1986.9	Roman?	1st-5th cent AD	domestic?	tooth fragment			ANC-Aside
GL528			AH	19	24780	England	Shropshire	Wroxeter	urban, dry	D100_36L	6th-7th cent AD	6th-7th cent AD	wild	3rd metatarsal			ANC-Cside
GL825			AH	21	52830	England	Shropshire	Wroxeter	urban, dry	C2774_20A	6th-7th cent AD	6th-7th cent AD	wild	3rd metatarsal			ANC-Aside
GL529			AH	21	52883	England	Shropshire	Wroxeter	urban, dry	C78-1A 30C	6th-7th cent AD	6th-7th cent AD	wild	3rd metatarsal			ANC-Aside
GL809			KS			England	North Cave, East Yorkshire	Southings Lane			bronze -medieval		wild	law fragment			
GL810			KS			England	North Cave, East Yorkshire	Southings Lane			bronze -medieval		wild?	law fragment			ANC-Aside
France																	
GL451			JDV		E137 15	France	Middle Seine Valley (Bassée)	Noven - Sur Seine	River turbarry deposits	ensem. 2 XVI (9)	Middle Mesolithic	9th millennium cal BC	wild				
GL301			JDV		E147 17	France	Middle Seine Valley (Bassée)	Noven - Sur Seine	River turbarry deposits	ensem. 2 XVI (9)	Middle Mesolithic	9th millennium cal BC	wild				
GL431			JDV		K236 28	France	Middle Seine Valley (Bassée)	Noven - Sur Seine	River turbarry deposits	Bone 90168	Middle Mesolithic?	9th millennium cal BC	wild				ANC-Cside
GL846		X	AT2		14	France	Paris city	Bercy	River turbarry deposits	GSMXV19 C2 N5	Chassen culture	early 4th Mil BC	domestic	mandible			ANC-Y1-6A
GL859			AT2		19	France	Paris city	Bercy	River turbarry deposits	GS LXIX 18 21a	Chassen culture	early 4th Mil BC	domestic	mandible			ANC-Aside
GL859			AT2		20	France	Paris city	Bercy	River turbarry deposits	GS LXIX 03 C21	Chassen culture	early 4th Mil BC	domestic	mandible			ANC-Aside
GL569			AT2		26	France	Paris city	Bercy	River turbarry deposits	GSMXV 16 C21	Chassen culture	early 4th Mil BC	domestic	mandible			ANC-Aside
GL570			AT2		33	France	Paris city	Bercy	River turbarry deposits	GS LXVI 03 C21	Chassen culture	early 4th Mil BC	domestic	mandible			ANC-Aside
GL571			AT2		36	France	Paris city	Bercy	River turbarry deposits	GS LXIX 24 C21	Chassen culture	early 4th Mil BC	domestic	mandible			ANC-Aside
GL450			AT2		39	France	Paris city	Bercy	River turbarry deposits	GSKXV 03 C21	Chassen culture	early 4th Mil BC	domestic	mandible			ANC-Aside
GL572			AT2		40	France	Paris city	Bercy	River turbarry deposits	GSKXV 25 C21	Chassen culture	early 4th Mil BC	domestic	mandible			ANC-Aside
GL824			AT2		42	France	Paris city	Bercy	River turbarry deposits	GS LXII 09 C21	Chassen culture	early 4th Mil BC	domestic	mandible			ANC-Aside
AT2			43		France	Paris city	Bercy	River turbarry deposits	GSMXV 22 C21	Chassen culture	early 4th Mil BC	domestic	mandible			ANC-Aside	
GL573			AT2		44	France	Paris city	Bercy	River turbarry deposits	GSMXVI 12 C2N2	Chassen culture	early 4th Mil BC	domestic	mandible			ANC-Aside
GL898			AT2		49	France	Paris city	Bercy	River turbarry deposits	GSKXIII 05 C21	Chassen culture	early 4th Mil BC	domestic	mandible			ANC-Aside
GL831			AT2		50	France	Paris city	Bercy	River turbarry deposits	GSKXIV 14 C21	Chassen culture	early 4th Mil BC	wild?	mandible			ANC-Aside
GL816			AT2		51	France	Paris city	Bercy	River turbarry deposits	GSMXV 07 C21	Chassen culture	early 4th Mil BC	wild	mandible			ANC-Aside
GL874			AT2		53	France	Paris city	Bercy	River turbarry deposits	GS LXII 20 C21b	Chassen culture	early 4th Mil BC	domestic	mandible			ANC-Aside
GL802			AT2		58	France	Paris city	Bercy	River turbarry deposits	GS LXV 17 C21	Chassen culture	early 4th Mil BC	wild	mandible			ANC-Aside

Table 5. A list of all novel obtained, extracted, and sequenced ancient specimens.																	
Extract	Cloned	Exter Replic	Source	Samp #	Spec. #	Country	Location	Site code	Site type	Context	Phase	Dating	Wild/Dom	Element	Notes	ANC1	Haplotype
GL64			AT2			France	Paris city	Bercy	River turbary deposits	GSXV 13 C2	Chassen culture	early 4th Mill BC	domestic	mandible			ANC-Cside
GL694			AT2			France	Paris city	Bercy	River turbary deposits	GSKI 16 C21	Chassen culture	early 4th Mill BC	domestic	mandible			
GL355			AT2			France	Paris city	Bercy	River turbary deposits		Chassen culture	early 4th Mill BC	domestic	incisor			
GL445			AT2			France	Paris city	Bercy	River turbary deposits	GLXLIV 05 C21	Chassen culture	early 4th Mill BC	domestic	mandible			ANC-Y1-6A
GL457			AT2			France	Paris city	Bercy	River turbary deposits		Chassen culture	early 4th Mill BC	domestic	bone			
GL461			AT2			France	Paris city	Bercy	River turbary deposits	GSNXXIX 24 C 15b	Chassen culture	early 4th Mill BC	domestic	mandible			
GL427			AT2			France	Paris city	Bercy	River turbary deposits	GLXLIV 05 C21	Chassen culture	early 4th Mill BC	domestic	mandible			
GL828			JDV / AT2	1		France	Lot. Quercy, SW France	Roucadour	open, drv	C2a	Mid Neolithic	c. 4.200-3.500 BC cal?	wild	lower M1/2			
GL841			JDV / AT2	2		France	Lot. Quercy, SW France	Roucadour	open, drv	C2a	Mid Neolithic	c. 4.200-3.500 BC cal?	wild	lower M1/2			
GL322			JDV / AT2	3		France	Lot. Quercy, SW France	Roucadour	open, drv	C2a	Mid Neolithic	c. 4.200-3.500 BC cal?	wild	lower M1/2			
GL321			JDV / AT2	6		France	Lot. Quercy, SW France	Roucadour	open, drv	C2a	Mid Neolithic	c. 4.200-3.500 BC cal?	wild	lower incisor			ANC-Aside
GL470			JDV / AT2	8		France	Lot. Quercy, SW France	Roucadour	open, drv	C2b	Mid Neolithic	c. 4.200-3.500 BC cal?	wild	lower premolar			ANC-Aside
GL485			JDV / AT2	10		France	Lot. Quercy, SW France	Roucadour	open, drv	C2b	Mid Neolithic	c. 4.200-3.500 BC cal?	wild	upper premolar			ANC-Aside
GL490			J-DV / DH			France	Ardeche, SE France	B. Oulens	Cave		Neolithic (Cardial)	6185 ± 68 [5306-4962] cal BC	wild	2nd phal			ANC-Cside
GL491			J-DV / DH			France	Ardeche, SE France	B. Oulens	Cave		Neolithic (Cardial)	6.361 ± 66 [5471-5221] cal BC	domestic?	2nd phal			ANC-Cside
GL310			J-DV	38		France	Corsica	Cucuruzzu	stone structure, drv	2a	Bronze/Iron	1800-500 BC cal	dom/feral	upper M3			
GL1027			ABU-DV	FR 1		France	Seine-&Marne, Yonne Valley	Boulancourt, 26, caree J6	Fosse ext		Final Bronze Age IIIb	ca. 900-700 cal. BC	domestic	Tooth lower left M2	30-36 months		ANC-Aside
GL1028			ABU-DV	FR 2		France	Seine-&Marne, Yonne Valley	Boulancourt, 33, caree AB	Fosse ext		Final Bronze Age IIIb	ca. 900-700 cal. BC	domestic	Tooth lower left M2	24-30 months female		ANC-Aside
GL308			J-DV / MM	33		France	Corsica	Ota	open, drv		15th cent AD	15th cent AD	dom/feral	lower can fem			ANC-Aside
GL315			J-DV / MM	34		France	Corsica	Ota	open, drv		15th cent AD	15th cent AD	dom/feral	upper incisor			ANC-Aside
GL369			J-DV / MM	35		France	Corsica	Ota	open, drv		15th cent AD	15th cent AD	dom/feral	upper incisor			ANC-Aside
GL822			J-DV / MM	36		France	Corsica	Ota	open, drv		15th cent AD	15th cent AD	dom/feral	upper incisor			ANC-Aside
GL319			J-DV	39		France	Corsica	Urtolo	open, drv	Bouquette W Couv	15th cent AD	15th cent AD	dom/feral	lower p4			ANC-Aside
GL318			J-DV	40		France	Corsica	Urtolo	open, drv	Bouquette W Couv	15th cent AD	15th cent AD	dom/feral	lower M1/2			ANC-Aside
GL489			J-DV	42		France	Corsica	Urtolo	open, drv	Bouquette W Couv	15th cent AD	15th cent AD	dom/feral	lower milk inc			ANC-Aside
GL998		X	J-DV	44		France	Corsica	Urtolo	open, drv	MVII	15th cent AD	15th cent AD	dom/feral	upper 11			ANC-Y2-5A
GL883		X	J-DV	45		France	Corsica	Urtolo	open, drv	MVII	15th cent AD	15th cent AD	dom/feral	upper M1/2			
GL997			J-DV	46		France	Corsica	Urtolo	open, drv	MVII Couche 3	15th cent AD	15th cent AD	dom/feral	upper P4			ANC-Aside
GL840			J-DV / TC	23		France	Corsica	Rosolino	open, drv	1044	14th cent AD	14th cent AD	dom/feral	lower incisor			ANC-Aside
GL317			J-DV / TC	23		France	Corsica	Rosolino	open, drv	2030	13th cent AD	13th cent AD	dom/feral	upper incisor			ANC-Aside
GL324			J-DV / TC	24		France	Corsica	Rosolino	open, drv	2030	13th cent AD	13th cent AD	dom/feral	upper milk inc			ANC-Aside
GL837			J-DV / TC	26		France	Corsica	Rosolino	open, drv	2030	13th cent AD	13th cent AD	dom/feral	lower can fem			ANC-Aside
Iceland																	
GL341			TM	2		Iceland	North-East Iceland	Hofstadir	open, drv	unit/G ctx004	10th cent AD	10th cent AD	domestic	ulna			ANC-Aside
GL361			TM	4		Iceland		Hirshedir	open, drv	HRH01 G ctx003	Early med/Viking	9th-12th cent AD	domestic	ulna			ANC-Aside
Ireland																	
A238			FM2	WB 01	---	Ireland	County Limerick	Ballycaghane Lower		8340± 110bp		Mesolithic	wild	ulna			
A239			FM2	WB 02	---	Ireland	County Limerick	Ballycaghane Lower		4000 BC		Mesolithic	wild	ulna			
A240			FM2	WB 03	---	Ireland	County Limerick	Ballycaghane Lower				Mesolithic	wild	metacarpal			
A241			FM2	WB 04	---	Ireland	County Limerick	Ballycaghane Lower				Mesolithic	wild	humerus			
A242			FM2	WB 05	LMC98 F1601	Ireland	County Meath	Moynaagh Cranmoq				-4000 BC	wild	cervical vertebra			
A243			FM2	WB 06	MC98 F1604	Ireland	County Meath	Moynaagh Cranmoq				~5000 BC	wild	bone			
A244			FM2	WB 07	MC98 F1604	Ireland	County Meath	Moynaagh Cranmoq				3868 ± 60 cal BC	undetermined	patella			
A352			NM1	WB 08	NMING- FZ1156:	Ireland	County Waterford	Kilgreany				7358 ± 138 cal BC	wild	metapodial			ANC-Cside
GL360			LWV-B	1	931	Ireland	County Meath	Newgrange	enclosure, open, drv		Neolithic	3000 BC?	undetermined?	incisor			
GL442			LWV-B	2	155/2	Ireland	County Meath	Newgrange	enclosure, open, drv		Neolithic	3000 BC?	domestic?	incisor			ANC-Aside
GL368			LWV-B	3	3-Feb	Ireland	County Meath	Newgrange	enclosure, open, drv		Neolithic	3000 BC?	undetermined	premlar			
GL443			LWV-B	4	146/2	Ireland	County Meath	Newgrange	enclosure, open, drv		Neolithic	3000 BC?	undetermined	premlar			
GL444			LWV-B	5	171/3	Ireland	County Meath	Newgrange	enclosure, open, drv		Neolithic	3000 BC?	undetermined	premlar			
Netherlands																	
GL843			RL	1	21551/1	Netherlands	Noord Holland	Hardinveldt Polderw	open, waterlogged		late Meso (6th mill BC)	5500-5300 BC cal	wild	upper incisor			
GL888			RL	2	11283	Netherlands	Noord Holland	Hardinveldt Polderw	open, waterlogged		late Meso (6th mill BC)	5500-5300 BC cal	wild	upper can fe			
GL295			RL	5	25870	Netherlands	Noord Holland	Hardinveldt Polderw	open, waterlogged		late Meso (6th mill BC)	5500-5300 BC cal	wild	lower incisor			
GL865			RL	7	13665	Netherlands	Noord Holland	Hardinveldt Polderw	open, waterlogged		late Meso (6th mill BC)	5500-5300 BC cal	wild	lower M1/2			
GL850			RL	11	110701	Netherlands	Noord Holland	Hardinveldt Polderw	open, waterlogged		late Meso (6th mill BC)	5500-5300 BC cal	wild	lower premolar			
GL292			RL	14	4902	Netherlands	Noord Holland	Hardinveldt Polderw	open, waterlogged		late Meso (6th mill BC)	5500-5300 BC cal	wild	upper incisor			
GL299			RL	19	11274	Netherlands	Noord Holland	Hardinveldt DeBruin	open, waterlogged	phase 1	Late Mesolithic	5500-5100 BC cal	wild	lower incisor			
GL298			RL	20	8357	Netherlands	Noord Holland	Hardinveldt DeBruin	open, waterlogged	phase 1	Late Mesolithic	5500-5100 BC cal	wild	lower incisor			
GL297			RL	20	8357	Netherlands	Noord Holland	Hazendonk	open	IIb	Mid Neolithic	4100-3400 BC cal	undetermined	lower M3			
GL821			RL	21	1442	Netherlands	Noord Holland	Hazendonk	open	I	Mid Neolithic	4100-3400 BC cal	undetermined	upper premolar			
GL297			RL	22	28896	Netherlands	Noord Holland	Hazendonk	open	II	Mid Neolithic	4100-3400 BC cal	undetermined	lower M1/2			
GL294			RL	25	2614	Netherlands	Noord Holland	Hardinveldt DeBruin	open	phase 3	Early Neolithic	4700-4450 BC cal	undetermined	lower M1/2			
GL294			RL	28	24758	Netherlands	Flevoland	Swifterbant - S3	open		Mid Neolithic	4100-3400 BC cal	undetermined	upper incisor			
GL877			RL	29	910185	Netherlands	Flevoland	Swifterbant - S3	open		Mid Neolithic	4100-3400 BC cal	undetermined	upper incisor			
GL389			RL	31a	38654	Netherlands	Flevoland	Swifterbant - S3	open		Mid Neolithic	4100-3400 BC cal	undetermined	lower incisor			ANC-Aside
GL801			RL	31b	29321	Netherlands	Flevoland	Swifterbant - S3	open		Mid Neolithic	4100-3400 BC cal	undetermined	lower incisor			
GL807			RL	34	20107	Netherlands	Flevoland	Swifterbant - S3	open		Mid Neolithic	4100-3400 BC cal	undetermined	lower M3			
GL835			RL	47	6357	Netherlands	Flevoland	p14	open		Neo/Bronze	2500-1500 BC cal	undetermined	lower M3			
GL371			RL	41	14771	Netherlands	Gelderland	Gelderland	urban		70-120 AD	domestic?	wild	lower incisor			
GL160			RL			Netherlands	Gelderland	Nijmegen	urban, drv	161-22-27	Roman 0-70 AD	0-70 AD	undetermined	jaw fragment			ANC-Aside
GL323			RL			Netherlands	Gelderland	Nijmegen	urban, drv	212-65-68	Roman 0-70 AD	0-70 AD	undetermined	tooth fragment			
GL806			RL			Netherlands	Gelderland	Nijmegen	urban, drv	218-65-25	Roman 0-70 AD	0-70 AD	undetermined	jaw fragment			ANC-Cside
GL208			KP/DM/JG1		NS16	Netherlands	Brown bank/ridge, North Sea	Southern Bight	sea floor					humerus			ANC-Cside
GL209			KP/DM/JG1		NS15	Netherlands	Brown bank/ridge, North Sea	Southern Bight	sea floor					radius			ANC-Cside
GL210			KP/DM/JG1		JG202	Netherlands	52 63 862N 002 23 471E	Southern Bight	sea floor					metacarpal			ANC-Cside
GL211			KP/DM/JG1		NS13	Netherlands	Brown bank/ridge, North Sea	Southern Bight	sea floor					tibia			ANC-Aside
GL212			KP/DM/JG1		NS14	Netherlands	Brown bank/ridge, North Sea	Southern Bight	sea floor					tibia			ANC-Aside
GL516			KP/DM/JG1		NS37	Netherlands	Brown bank/ridge, North Sea	Southern Bight	sea floor					tibia			ANC-Cside
GL515			KP/DM/JG1		NS38	Netherlands	Brown bank/ridge, North Sea	Southern Bight	sea floor					tibia			ANC-Aside
GL544			KP/DM/JG1		NS42	Netherlands	Brown bank/ridge, North Sea	Southern Bight	sea floor					humerus			ANC-Cside
Portugal																	

Table 5. A list of all novel obtained, extracted, and sequenced ancient specimens.														ANC1	Haplotype	
Extract	Cloned	Exter Replic	Source	Sam #	Spec. #	Country	Location	Site code	Site type	Context	Phase	Dating	Wild/Dom	Element	Notes	
GL452			CD	33	2002.83.76	Portugal	North-West Alentejo	Cabeço do Pez	open, drv	T1B Sq4 Ly2	late Mesolithic	5500-4500 BC cal	wild	low inc		
GL300			CD	34	2002.77.88	Portugal	North-West Alentejo	Cabeço do Pez	open, drv	T1B Sq3 Ly2	late Mesolithic	5500-4500 BC cal	wild	low inc		
GL472			CD	35	2002.151.161	Portugal	North-West Alentejo	Cabeço do Pez	open, drv	T1B Sq4 Ly2	late Mesolithic	5500-4500 BC cal	wild	low inc		
GL454		X	SD	1		Portugal	Estremadura	Zambual	trenched settlement, drv	Z274	Chalcolithic/Early Bronze	2,600-1,800 BC cal?	wild?	lower I3		
GL840			SD	2		Portugal	Estremadura	Zambual	trenched settlement, drv	Z296	Chalcolithic/Early Bronze	2,600-1,800 BC cal?	domestic?	lower I3		
GL855			SD	5		Portugal	Estremadura	Zambual	trenched settlement, drv	?	Chalcolithic/Early Bronze	2,600-1,800 BC cal?	domestic?	lower I3		
GL487			SD	12		Portugal	Estremadura	Zambual	trenched settlement, drv	?	Chalcolithic/Early Bronze	2,600-1,800 BC cal?	domestic?	lower tremolar		
GL333			SD	14		Portugal	Estremadura	Zambual	trenched settlement, drv	Z885	Chalcolithic/Early Bronze	2,600-1,800 BC cal?	wild?	lower M3		
GL332			SD	15		Portugal	Estremadura	Zambual	trenched settlement, drv	?	Chalcolithic/Early Bronze	2,600-1,800 BC cal?	wild?	lower M3		
GL331			SD	16		Portugal	Estremadura	Zambual	trenched settlement, drv	?	Chalcolithic/Early Bronze	2,600-1,800 BC cal?	domestic?	lower M3		
GL357			SD	17		Portugal	Estremadura	Zambual	trenched settlement, drv	Z429	Chalcolithic/Early Bronze	2,600-1,800 BC cal?	domestic?	lower M3		
GL358			SD	20		Portugal	Estremadura	Zambual	trenched settlement, drv	Z485	Chalcolithic/Early Bronze	2,600-1,800 BC cal?	domestic?	lower M3		
GL836			SD	22		Portugal	Estremadura	Zambual	trenched settlement, drv	Z499	Chalcolithic/Early Bronze	2,600-1,800 BC cal?	wild?	fra low can mal		
GL879			SD	24		Portugal	Estremadura	Zambual	trenched settlement, drv	Z9039	Chalcolithic/Early Bronze	2,600-1,800 BC cal?	domestic?	upper can fem		
GL465			SD	27		Portugal	Estremadura	Zambual	trenched settlement, drv	Z1185	Chalcolithic/Early Bronze	2,600-1,800 BC cal?	domestic?	upper can fem		
GL285			SD	28		Portugal	Estremadura	Zambual	trenched settlement, drv	Z994	Chalcolithic/Early Bronze	2,600-1,800 BC cal?	domestic?	upper can fem		
GL819			SD	31		Portugal	Estremadura	Zambual	trenched settlement, drv	Z623	Chalcolithic/Early Bronze	2,600-1,800 BC cal?	wild?	fra low can mal		
GL1038			CD	322		Portugal	Ribatejo	C. Amoreira		square: HI 6 Troco	center Layer		wild?	tooth		
GL1039			OD	330		Portugal	Ribatejo	C. Arruda		square: LM 6 Troco	center Layer		wild?	tooth		
Scotland																
GL457			FH	1		Scotland	Isle of Skye	High Pasture Cave	subterranean ritual deposit	Isle of Skye	Iron Age	350-100BC	domestic	incisor		
GL330			TM	1		Faroe Islands		Junkavns Fløtvi, Sandur	open, drv	unit/UJ.cxd06	c.AD1100	c.AD1100	domestic	ulna		
Sweden																
GL453			GB/NO	2		Sweden	Göland	Avide	coastal settlement	Layer III	Middle Neolithic	2800-2500 cal BC	undetermined	canine	Pitted Ware culture	
GL488			GB/NO	4		Sweden	Göland	Avide	coastal settlement	GO94, Layer III	Middle Neolithic	2800-2500 cal BC	undetermined	M1, canine	Pitted Ware culture	
GL474			GB/NO	5		Sweden	Göland	Avide	coastal settlement	GO97	Middle Neolithic	2800-2500 cal BC	undetermined	M3	Pitted Ware culture	
GL459			GB/NO	6		Sweden	Göland	Avide	coastal settlement	GO97, Layer III	Middle Neolithic	2800-2500 cal BC	undetermined	incisor x2	Pitted Ware culture	
GL316			GB/NO	7		Sweden	Göland	Avide	coastal settlement	GO97, Layer II	Middle Neolithic	2800-2500 cal BC	undetermined	canine	Pitted Ware culture	
Extraction #: The code given to each individual																
Cloned: An "X" indicates that this sample was cloned at the Ancient Biomolecules Centre in Oxford. At least eight cloned sequences were examined in each case.																
External replication: An "X" in this column indicates that the sample was externally replicated either in Adelaide, Australia, by Alan Cooper and Gavnor Dolman, in Basel, Switzerland, by Angela Schlumbaum, or, if the original work was carried out in Switzerland, by Greger Larson at Oxford University.																
Source: The codes for the museums and individuals from which material was generously provided are as follows:																
AB: Adrian Bălăşescu, National History Museum of Romania, National Center of Pluridisciplinary Research, 12 Calea Victoriei, 30026 Bucharest, Romania																
AC: Andrew Chamberlain, Department of Archaeology, University of Sheffield, Northgate House, West Street, Sheffield S1 4ET, United Kingdom																
AD: Alexandra Dima, UW Madison, Anthropology Department, 1180 Observatory Drive, 5240 Social Science Building, Madison, WI, 53706																
AE: Anton Evroevck, Flemish Heritage Institute, Konink Albert II-kaan 19, box 5, B-1210 Brussels, Belgium																
AF: Andy Hammon, English Heritage, 37 Tanner Row, York YO1 6WP, UK																
AM: Augusta McMahon, Faculty of Oriental Studies and Archaeology and Anthropology, University of Cambridge, Sidwick Avenue, Cambridge CB3 9DA, UK, Rm 208, Sidwick Avenue, Cambridge CB3 9DA, UK																
AT1: Antonio Tafiachoz, Soprintendenza Speciale al Museo Nazionale Preistorico Etnografico L. Pigorini, Sezione di Paleontologia del Quaternario e Archeozoologia, Piazzale G. Marconi 14, 00144 Roma, Italy																
AT2: Anne Tresselt, CNRS - Muséum national d'Histoire naturelle, Dent Evolevol and Biodiversity Management, USM 303, Case postale 56, 57 rue Cuvier, F-75231 Paris cedex 05, France																
CC: Chiara Cavallo, Amsterdams Archeologisch Centrum (AAC) / University of Amsterdam Nwe Prinsengracht 130, 1018 VZ Amsterdam, the Netherlands																
CD: Cleia Detry, R. Prof. Alfredo de Sousa nº 8/B, 1600-1800 Lisboa, Portugal																
CM1: Claudine Malone, Department of Archaeology, University of Cambridge, Downing Street, Cambridge CB2 3DZ, UK																
CM2: Chiaia Minitti, Laboratorio di Archeologia, Soprintendenza Archeologica di Roma, Palazzo Alemans, v. S. Apollinare, 8 - 00186 ROMA, Italy																
DH: Daniel Helmer, UMR 5133 Archeorient, Maison de l'Orient et de la Méditerranée, Antenne de Jalès, F-07460 Berrias, France																
DK: Derek Kennet, Department of Archaeology, University of Durham, South Road, Durham DH1 3L																
DM: Dick Mol, Natural History Museum, Rotterdam, Westzeedijk 345, NL-3015 AA Rotterdam The Netherlands																
FH: Fraser Hunter, Department of Archaeology, National Museums of Scotland, Queen Street, Edinburgh EH1 1JD, Scotland																
FMNH: Field Museum of Natural History, Division of Mammals, 1400 S Lake Shore Drive, Chicago, Illinois 60605 (Bill Stanley)																
FMI: Filippo Macconi, Via Daniele Manni 25, Tempio Pausanias (SS) 07029, Italy																
FM2: Finbar McCormick, School of Archaeology and Palaeoecology, Queen's University Belfast, Belfast BT7 1NN, UK																
GB: Göran Burenbul, Gotland University College, Cramérstratan 3, 62157 Visby, Sweden																
HI: Hitomi Hongo, Advanced Science, Graduate University for Advanced Studies, Shonan Village, Hayama, Miura, Kanagawa, 240-0193, Japan																
HD: Hans-Jürgen Döble, Landesamt für Archäologie, Sachsen-Anhalt-Landesmuseum für Vorgeschichte, Richard Wagner Strasse 9-10, 06114 Halle (Saale), Germany																
IO: Inger Österholm, Gotland University College, Cramérstratan 3, 62157 Visby, Sweden																
J-DV: Jean-Denis Vigne, CNRS, Muséum National d'Histoire Naturelle, UMR 5197, Dpt Ecologie et Gestion de la Biodiversité, Bat. 56, 57 rue Cuvier, F-75231, Paris cedex 05, France																
JG1: Jan Glimmerveen, Anna Paulownastraat 25A, 2518 BA Den Haag, The Netherlands																
JG2: Jacopo de Grossi Mazzorin, Dipartimento di Beni Culturali, Via D. Birago, 64, 73100 Lecce, Italy																
JJ: T. Justin Lev-Tov, Hackenheimerstr. 43, 55545 Bad Kreuznach, Germany																
JS: Jörg Schibler, Institute of Prehistory and Archaeological Science (IPAS), Basel University, Switzerland, Bones searched from the archaeological Services from cantons Graubünden, Zürich, Bern, Basel-Stadt and Basel-Landschaft																
KAS: Kim Aaris-Sørensen, Zoological Museum, Vertebrate Department, Universitetstræken 15, DK-2100 Copenhagen Ø, Denmark																
KP: Klaas Post, Natuurmuseum Rotterdam, Rotterdam, The Netherlands																
KS: Ken Steedman, Humber Archaeology Partnership, The Old School, Northumberland Avenue, Hull, HU2 0LN																
LB: László Bartosiewicz, Institute of Archaeological Sciences, Eötvös Loránd University, Budapest, Hungary																
LKH: Liora Kolska Horwitz, Department of Evolution, Systematics and Ecology, The Hebrew University, Berman Building, Givat Ram, Jerusalem, Israel																
LWVB: Louise Van Winjaerden-Bakker, Amsterdam Archaeological Center, University of Amsterdam, Turfgraafsteraan 9, 1012 XT Amsterdam, the Netherlands																
MMH: Marco Masseti, Dipartimento di Biologia Animale e Genetica "I eo Pardi" dell'Università di Firenze, Laboratorio di Antropologia, Firenze, Italy																
MM2: Maria Mashkova, CNRS - Muséum national d'Histoire naturelle, Dent Evolevol and Biodiversity Management, USM 303, Case postale 56, 57 rue Cuvier, F-75231 Paris cedex 05, France																
NB: Norbert Benecke, Deutsches Archäologisches Institut, Referat Naturwissenschaften, Im Dol 2-6, Haus 2, 14195 Berlin, Germany																
NMI: Nigel Monaghan, Natural History Division, National Museum of Ireland, Merrion Street, Dublin 2, Ireland																
NM2: Ninna Manaservyan, Institute of Zoology, The National Academy of Sciences of Armenia, 7, Sevag str., Yerevan 375014, Armenia																
OF: Ornella Fonzo, Via Lai 2, 09128 Cagliari, Italy																
PH: Paul Halstead, Department of Archaeology, University of Sheffield, Northgate House, West Street, Sheffield S1 4ET, UK																
PML: Preston Miracle, Department of Archaeology, University of Cambridge, Downing Street, Cambridge CB2 3DZ, UK																
PM2: Peabody Museum of Archaeology and Ethnology, 11 Divinity Ave, Cambridge, MA 02138, USA																
RB: Ruth Bollongnino, Institute for Anthropology, Kolonel-Kleinmann Weg 2, 55128 Mainz, Germany																
RF: Roel Lauwerij, National Service for Archaeology, Cultural Landscape and Built Heritage (RACM), Kerksstraat 1, NL-3811 CV Amersfoort, the Netherlands																

Table 5. A list of all novel obtained, extracted, and sequenced ancient specimens.																	
Extract	Cloned	Exter Replic	Source	Samp #	Spec. #	Country	Location	Site code	Site type	Context	Phase	Dating	Wild/Dom	Element	Notes	ANC1	Haplotype
RM1: Roger Matthews, Institute of Archaeology, University College London, 31-34 Gordon Square, London WC1H 0PY, UK																	
RM2: Zooarcheology Laboratory, Peabody Museum of Archaeology and Ethnology, 11 Divinity Ave, Cambridge, MA 02138, USA																	
RR: Richard Redding, Museum of Anthropology, 1109 Geddes Avenue, Ann Arbor, Michigan 48109-1079, USA.																	
SD: Simon Davis, Instituto Português de Arqueologia, Avenida da Índia 136, P-1300, Lisbon, Portugal																	
SH: Susanne Hanik, Brandenburgisches Landesamt für Denkmalpflege und Archäologisches Landesmuseum, Wünsdorfer Platz 4 – 5, D - 15838 Zossen (Ortsteil Wünsdorf), Germany																	
SS: Simon Stoddart, Magdalene College, University of Cambridge, CB3 0AG, UK																	
SVP: Sophie Van Poucke, Koninklijk Belgisch Instituut voor Natuurwetenschappen, Afdeling Antropologie en Prehistorie, Vautierstraat 29, 1000 Brussel, Belgium																	
TC: Thomas Cucchi, Muséum national Histoire Naturelle, UMR 5197, Case Postale 55, 57 rue Cuvier, F-75231 Paris cedex 05, France.																	
TM: Thomas McGovern, Anthropology Dept. Hunter College, 695 Park Ave. NYC 10021 USA																	
UA: Umberto Albarella, Department of Archaeology, University of Sheffield, Northgate House, West Street, Sheffield S1 4ET, UK																	
VD: Valentin Dumitrescu, Institutul de Arheologie, Str Henri Coandă, nr. 11, Sector 1, cod 71113, Bucuresti																	
Site code / Context / Phase / Dating / Element: Information presented in these columns was provided by the people who provided the material. The dating information was based upon a variety of means including direct and associated ¹⁴ C analysis and stratigraphic or cultural association.																	
Wild/Dom: Six different categories are used in this column. “Wild” and “Domestic” mean the samples were unambiguously defined as being one or the other based on methods discussed above. “Undetermined” signifies that no definitive determination could be made (usually as a result of the inappropriateness of the element) and use of question marks after words “wild” or “domestic” indicates there was some doubt in assigning a status. “Dom/feral” indicates that these samples are from an island where all pigs were introduced and therefore most likely to be either fully domestic or living wild (feral), but derived from domestic stock.																	
ANC1: This column relates to the ~120bp primer pair designed for the analysis of ancient specimens (and used on 10 of the museum specimens) in this study. Sequences derived from the ANC1 pair determined whether the sample belonged to one of 18 haplotypes. A red box indicates the primer pair was attempted but no sequence was derived. A green box indicates the primer pair was attempted and a sequence was obtained. In order for a sequence to be reported, the same primer pair had to reveal the same result on at least two consecutive, independent occasions.																	
Haplotype: The information present in this column relates to one of the 18 different haplotypes evident after the truncation of the full data set.																	