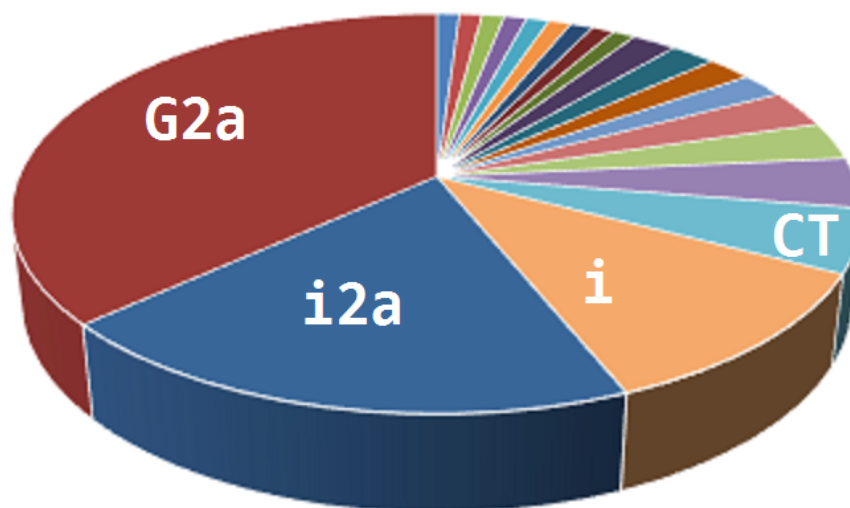


**ДАННЫЕ ПАЛЕО-ДНК – 2. ИЗБРАННОЕ ИЗ СТАТЬИ ПО
НЕОЛИТУ ЕВРОПЫ ЗА МАРТ 2017**

М. Липсон и др.*

Исследования по палео-ДНК установили, что европейские неолитические популяции происходят от анатолийских мигрантов и от ограниченного этнического компонента охотников-собираателей.

**Y-DNA from 'Neolithic Europe: Lipson
et al. 2017, March'**



n = 98 men

■ C = 1,02%	■ E1b = 1,02%	■ F = 1,02%	■ H1b = 1,02%
■ UK (xJ) = 1,02%	■ J2a = 1,02%	■ R = 1,02%	■ R1 = 1,02%
■ T1a = 1,02%	■ C1a = 2,04%	■ G = 2,04%	■ I2c = 2,04%
■ R1b = 2,04%	■ H = 3,06%	■ I2 = 3,06%	■ H2 = 4,08%
■ CT = 5,10%	■ I = 11,2%	■ I2a = 19,3%	■ G2a = 36,7%

Таблица 1. Распределение линий y-dna неолита Европы из статьи *Parallel ancient genomic transects reveal complex population history of early European farmers* (2017 March)

Тем не менее, многие вопросы остаются открытыми, а именно пространственная и временная динамика взаимодействия и этнических компонентов у европейского населения в период неолита.

Используя собранный на сегодняшний день набор данных ДНК с самым высоким разрешением по геному, в общей сложности 177 образцов, 127 из которых были недавно зарегистрированы здесь, от неолита и халькотина Венгрии (6000-2900 лет до н.э., n = 98), Германии (5500 -3000 до н.э., n = 42) и Испании (5500-2200 до н.э., n = 37) – исследовано демографическая динамика эпохи неолита в Европе.

Установлено, что генетическое разнообразие в эпоху неолита Европы формировалось преимущественно местными популяциями, но различного происхождения. Это была неоднородная численность населения охотников и собирателей из трех регионов мира.

Этнические компоненты между группами с различными древними племенами были широко распространены и приводили к изменению этнического состава населения почти во всех архологических культурах того времени.

Эти результаты дали новые данные на то, как поток генов изменил европейские популяции в течение неолитического периода и продемонстрировал потенциал подходов к выборке и моделированию на основе временных периодов для выявления многочисленных аспектов взаимодействий населения в последующие различные исторические эпохи в Европе.

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Данные по палео-ДНК неолита Европы, из статьи Марка Липсона и др. *Parallel ancient genomic transects reveal complex population history of early European farmers* – Уточнены И.Л. Рожанским и Б.А. Муратовым.

№ 1. Гаплогруппы и локализация

ID	Y-DNA	Terminal SNP	mtDNA	Location
VEJ2a	C	M130	T2b	Veszprém Jutasi út
HUNG372, NE5	C1a	V20	J1c1	Kompolt-Kígyósér
MIR5, MIR6	C1a	V20	X2b	El Mirador Cave, Atapuerca, Burgos
EBVO5a	CT	P143	V1a	Ebes-Zsongvölgy
MEMO24b	CT	P143	U8b1b	Mezőkövesd-Mocsolyás
GEN49	CT	P143	T2b23	Nemesnáudvar-Papföld, M9/7 lh.
VEJ9a	CT	P143	H40	Veszprém Jutasi út
KAR6	CT	P143	H1/H1au1b	Karsdorf
VEJ4a	E1b	L618	W1	Veszprém Jutasi út
ALE4a	F	M89	T2c	Alsónyék-Elkerülő 2. site
SZEH5a	G	M201	K1b1a	Szemely-Hegyes
TOSM3a	G	M201	K1a4f	Törökszentmiklos Tiszapüspöki Karanycs haromag 3. lh.
HAL15a	G2	P287	N1a1a3	Halberstadt-Sonntagsfeld
HAJE1a	G2	P287	T2b23	Hajdúnánás-Eszlári út
VSM3a	G2a	P15	H26	Vésztő-Mágor
ALE14a	G2a	P15	U8b1	Alsónyék-Elkerülő 2. site
TOLM4a	G2a	P15	K1a1a	Tolna-Mözs TO26
GEN17a	G2a	PF3147	U5b3f	Alsónémedi
HAL20b	G2a	PF3147	K1a2	Halberstadt-Sonntagsfeld
HAL21a	G2a	PF3147	T2b	Halberstadt-Sonntagsfeld
HAL27a	G2a	PF3147	N1a1a3	Halberstadt-Sonntagsfeld
LHUE2010.11	G2a	PF3147	V	Alto de la Huesera, Alava, Basque country
HAL14	G2a	PF3147	T2b	Halberstadt-Sonntagsfeld
SEKU1a	G2a	PF3147	K1a2	Szederkény-Kukoricadűlő
BAM4a	G2a	PF3148	K1a4	Alsónyék-Bátaszék, Mérnöki telep
BAL25b	G2a	PF3148	K1b1a1	Bátaszék-Lajvér
VEJ5a	G2a	PF3148	J1c2	Veszprém Jutasi út
HAL2	G2a	PF3148	N1a1a1a2	Halberstadt-Sonntagsfeld
HAL24	G2a	PF3148	X2d1	Halberstadt-Sonntagsfeld
HAL25	G2a	PF3148	K1a	Halberstadt-Sonntagsfeld

ID	Y-DNA	Terminal SNP	mtDNA	Location
HAL39b	G2a	PF3148	H1e	Halberstadt-Sonntagsfeld
SALZ3B	G2a	PF3148	U3a1	Salzmuende-Schiebzig
PULE1.9a	G2a	L30	H26	Pusztataskony-Ledence I.
PULE1.22a	G2a	L30	T2c	Pusztataskony-Ledence I.
BUD4a	G2a	P303	T1a	Budakeszi, Szőlőskert-Tangazdaság
CEG07b	G2a	P303	J2b1	Cegléd, site 4/2
GEN60	G2a	P303	H	Abony, Turjányos-dűlő
CEG03b	G2a	P303	H	Cegléd, site 4/1
GEN14a	G2a	P303	U5b2a2c	Budakalász-Luppa csárda
SEKU10a	G2a	PF3346	K2a	Szederkény-Kukorica-dűlő
GEN13a	G2a	PF3346	HV	Budakalász-Luppa csárda
GEN12a	G2a	Z1815	H26a	Budakalász-Luppa csárda
PULE1.13a	G2a	Z1903	T2c	Pusztataskony-Ledence I.
GEN15a	G2a	Z1903	J2a1a1	Budakalász-Luppa csárda
MIR24	G2a	PF3359	J2b1a3	El Mirador Cave, Atapuerca, Burgos
BAM13b	G2a	PF3359	X2d1	Alsónyék-Bátaszék, Mérnöki telep
GEN18	G2a	PF3362	T2c	Alsónyék-Bátaszék, site 11
LGCS1a	G2a	PF3355	W5	Lánycsók, Gata-Csatola
CSAT19a	H	L901	H	Csabdi-Télizöldes
VEJ12a	H	L901	U8b1a	Veszprém Jutasi út
TISO11a	H	L901	HV0a	Tiszadob-Ókenéz
BAL3a	H1b	?	T2f	Bátaszék-Lajvér
BAM17b	H2	P96	T1a2	Alsónyék-Bátaszék, Mérnöki telep
BAM25	H2	P96	N1a1a1	Alsónyék-Bátaszék, Mérnöki telep
VEGI3a	H2	P96	T2b	Versend-Gilencsa
Mina3	H2	P96	K1a1b1	La Mina
HAJE10a	I	M170	J2b1	Hajdúnánás-Eszlári út
HELI2a	I	M170	U8b1b	Hejőkürt-Lidl logisztikai központ
KOKE3a	I	M170	K1b1a	Hódmezővásárhely-Kökénydomb Vörös tanya
FAGA1a	I	M170	HV0a	Fajsz-Garadomb
HUNG347, NE7	I	M170	N1a1a1a	Apc-Berekalja
ESP30	I	M170	H1e1a	Esperstedt
ES.1/4	I	M170	H3	El Sotillo, Alava, Basque Country
MIR19	I	M170	H3	El Mirador Cave, Atapuerca, Burgos

ID	Y-DNA	Terminal SNP	mtDNA	Location
MIR21	I	M170	H3	El Mirador Cave, Atapuerca, Burgos
GEN24	I	M170	U8b1a1	Balatonlelle-Felső-Gamász
SCHM2a	I	M170	J2b1a	Erwitte-Schmerlecke
HAJE7a	I2	P215	K1a26	Hajdúnánás-Eszlári út
CSAT25a	I2	P215	T2b	Csabdi-Télizöldes
GEN23	I2	P215	J1c	Balatonlelle-Felső-Gamász
PULE1.10a	I2a	L460	T2c	Pusztataskony-Ledence I.
Gorzsa18	I2a	P37.2	U5b2c	Hódmezővásárhely-Gorzsa grave 18
GEN21	I2a	P37.2	K1a1	Balatonlelle-Felső-Gamász
Bla8	I2a	P37.2	U5b2b2	Blatterhole Cave
GEN22	I2a	M26	U5a1	Balatonlelle-Felső-Gamász
MIR25	I2a	M26	U3a1	El Mirador Cave, Atapuerca, Burgos
Troc5	I2a	M26	N1a1a1	Els Trocs
1.-K11	I2a	M436	X2b	La Chabola de la Hechicera, Alava, Basque country
5.-K18	I2a	M436	J1c1	La Chabola de la Hechicera, Alava, Basque country
POPI5a	I2a	M223	K1a1	Polgár-Piócás
TISO13a	I2a	M223	J1c2	Tiszadob-Ó-Kenéz
ES-6G-110	I2a	M223	H3	El Sotillo, Alava, Basque Country
Inventario0/4	I2a	M223	X2b	El Sotillo, Alava, Basque Country
LY.II.A.10.15066	I2a	M223	U5b2b3a	Las Yurdinas II, Alava, Basque Country
MIR14	I2a	M223	H3	El Mirador Cave, Atapuerca, Burgos
HELI11a	I2a	CTS10057	N1a1	Hejőkürt-Lidl logisztikai központ
GEN67	I2a	CTS10057	H1a	Törökszentmiklós, road 4, site 3
TISO1b	I2a	L701	H7	Tiszadob-Ó-Kenéz
Mina4	I2a	Z161	H1	La Mina
GEN61	I2c	L596	J1c3b	Abony, Turjányos-edülő
GEN63	I2c	L596	U5a1c1	Abony, Turjányos-dűlő
SALZ77A	IK	L15	H3	Salzmuende-Schiebzig
FEB3a	J2a	M410	H44b	Felsőörs-Bárókert
QLB15D	R	M207	HV	Quedlinburg, Site IX
Bla28	R1	M173	J1c1b1	Blatterhole Cave
Bla16	R1b	L278	U5b2a2	Blatterhole Cave
Troc3	R1b	V88	T2c1d/T2c1d2	Els Trocs
KAR16A	T1a	M70	H46b	Karsdorf

№ 2. Датировки и археокультуры

Sample ID	Date	Culture	Country
VEJ2a	4800-4500 BCE	Lengyel_LN	Hungary
HUNG372, NE5	5295-4950 calBCE (6164±64 BP, OxA-23763)	ALPc_MN	Hungary
MIR5, MIR6	2900-2679 calBCE (4210±30 BP, Beta-416455)	Iberia_CA	Spain
EBV05a	5300-4900 BCE	ALPc_Esztar_MN	Hungary
MEMO24b	5500-5300 BCE	ALPc_Szatmar_MN	Hungary
GEN49	4228-3963 calBCE (5230±40 BP, Poz-83638)	Hunyadihalom_MCA	Hungary
VEJ9a	4339-4237 calBCE (5418±29 BP, MAMS-14828)	Balaton_Lasinja_MCA	Hungary
KAR6	5217-5041 calBCE (6174±29 BP, MAMS-22823)	LBK_EN	Germany
VEJ4a	4796-4685 calBCE (5861±26 BP, MAMS-14827)	Lengyel_LN	Hungary
ALE4a	5016-4838 calBCE (6032±32 BP, MAMS-14814)	Sopot_LN	Hungary
SZEH5a	4904-4709 calBCE (5920±40 BP, Beta-310039)	Sopot_LN	Hungary
TOSM3a	6000-5500 BCE	Koros_EN	Hungary
HAL15a	5199-4857 calBCE (KIA-40344; 6081±30 BP?)	LBK_EN	Germany
HAJE1a	5300-4900 BCE	ALPc_III_MN	Hungary
VSM3a	5000-4500 BCE	Tisza_LN	Hungary
ALE14a	5030-4848 calBCE (6049±29 BP, MAMS-14817)	Sopot_LN	Hungary
TOLM4a	5301-5076 calBCE (6233±23 BP, MAMS-14145)	LBKT_MN	Hungary
GEN17a	3359-3098 calBCE (4520±35 BP, Poz-83635)	Baden_LCA	Hungary
HAL20b	5500-4850 BCE	LBK_EN	Germany
HAL21a	5500-4850 BCE	LBK_EN	Germany
HAL27a	5500-4850 BCE	LBK_EN	Germany
LHUE2010.11	3092-2918 calBCE (4390±30 BP, Beta-301225)	Iberia_CA	Spain
HAL14	5213-5009 calBCE (6156±35 BP, MAMS-21480)	LBK_EN	Germany
SEKU1a	5202-4851 calBCE (6079±33 BP, MAMS-14808)	Vinca_MN	Hungary
BAM4a	5641-5547 calBCE (6677±27 BP, MAMS-11928)	Starcevo_EN	Hungary
BAL25b	5208-4948 calBCE (6115±35 BP, Poz-82584)	LBKT_MN	Hungary
VEJ5a	4800-4500 BCE	Lengyel_LN	Hungary
HAL2	5211-4963 calBCE (KIA-40350; 6130±40 BP?)	LBK_EN	Germany
HAL24	5201-4850 calBCE (6076±34 BP, KIA-40348)	LBK_EN	Germany
HAL25	5210-5002 calBCE (6153±33 BP, MAMS-21482)	LBK_EN	Germany
HAL39b	5210-5002 calBCE (6144±32 BP, KIA-40343)	LBK_EN	Germany
SALZ3B	3400-3025 BCE	Salzmuende_MN	Germany

Sample ID	Date	Culture	Country
PULE1.9a	4500-4000 BCE	Tiszapolgar_ECA	Hungary
PULE1.22a	4500-4000 BCE	Tiszapolgar_ECA	Hungary
BUD4a	5300-4900 BCE	LBKT_MN	Hungary
CEG07b	5300-4900 BCE	ALPc_Szakalhat_MN	Hungary
GEN60	3909-3651 calBCE (4960±40 BP, VERA-5402)	Protoboleraz_LCA	Hungary
CEG03b	5300-4900 BCE	ALPc_Szakalhat_MN	Hungary
GEN14a	3300-2850 BCE	Baden_LCA	Hungary
SEKU10a	5320-5080 calBCE (6264±34 BP)	Vinca_MN	Hungary
GEN13a	3300-2850 BCE	Baden_LCA	Hungary
GEN12a	3300-2850 BCE	Baden_LCA	Hungary
PULE1.13a	4500-4000 BCE	Tiszapolgar_ECA	Hungary
GEN15a	3367-3103 calBCE (4545±35 BP, Poz-83634)	Baden_LCA	Hungary
MIR24	2900-2346 BCE [2568-2346 calBCE (3950±30 BP, Beta-416457); 2857-2496 calBCE (4080±30 BP, Beta-416456); 2865-2575 calBCE (4110±30 BP, Beta-416458); 2900-2679 calBCE (4210±30 BP, Beta-416455); based on dates of other El Mirador samples)	Iberia_CA	Spain
BAM13b	5704-5556 calBCE (6704±34 BP, MAMS-11933)	Starcevo_EN	Hungary
GEN18	5309-5074 calBCE (6244±34 BP, SUERC-51459)	LBKT_MN	Hungary
LGCS1a	5800-5500 BCE	Starcevo_EN	Hungary
CSAT19a	4800-4500 BCE	Lengyel_LN	Hungary
VEJ12a	4800-4500 BCE	Lengyel_LN	Hungary
TISO11a	5500-5000 BCE	ALPc_Tiszadob_Bükk_MN	Hungary
BAL3a	4800-4500 BCE	Lengyel_LN	Hungary
BAM17b	5832-5667 calBCE (6857±31 BP, MAMS-11935)	Starcevo_EN	Hungary
BAM25	5702-5536 calBCE (6695±40BP, MAMS-11939)	Starcevo_EN	Hungary
VEGI3a	5400-5000 BCE	Vinca_MN	Hungary
Mina3	3900-3600 BCE	Iberia_MN	Spain
HAJE10a	5221-5000 calBCE (6170±40 BP, Poz-83632)	ALPc_III_MN	Hungary
HELI2a	5300-4900 BCE	ALPc_Tiszadob_MN	Hungary
KOKE3a	5000-4500 BCE	Tisza_LN	Hungary
FAGA1a	5100-4750 BCE	Sopot_LN	Hungary
HUNG347, NE7	4491-4357 calBCE (5598±32 BP, MAMS-14819)	Lengyel_LN	Hungary
ESP30	3970-3710 calBCE (5061±62 BP, Er-7784)	Baalberge_MN	Germany
ES.1/4	2571-2347 calBCE (3960±30 BP, Beta-299306)	Iberia_CA	Spain
MIR19	2900-2346 BCE [2568-2346 calBCE (3950±30 BP, Beta-416457); 2857-2496 calBCE (4080±30 BP, Beta-416456); 2865-2575 calBCE (4110±30 BP, Beta-416458); 2900-2679 calBCE (4210±30 BP, Beta-416455); based on dates of other El Mirador samples)	Iberia_CA	Spain

Sample ID	Date	Culture	Country
MIR21	2900-2346 BCE [2568-2346 calBCE (3950±30 BP, Beta-416457); 2857-2496 calBCE (4080±30 BP, Beta-416456); 2865-2575 calBCE (4110±30 BP, Beta-416458); 2900-2679 calBCE (4210±30 BP, Beta-416455); based on dates of other El Mirador samples)	Iberia_CA	Spain
GEN24	3600-2850 BCE	Baden_LCA	Hungary
SCHM2a	3780-3099 BCE [3359-3099 calBCE (4521±34 BP, KIA 2384); 3780-3647 calBCE (4930±36 BP, KIA 2388); layer dates oldest and youngest of eight dated individuals in the same collective grave]	Germany_MN	Germany
HAJE7a	5302-5057 calBCE (6220±40 BP, Poz-83631)	ALPc_III_MN	Hungary
CSAT25a	4826-4602 calBCE (5850±40 BP, Poz-82582)	Lengyel_LN	Hungary
GEN23	3337-3024 calBCE (4465±30 BP, Poz-83637)	Baden_LCA	Hungary
PULE1.10a	4500-4000 BCE	Tiszapolgar_ECA	Hungary
Gorzsa18	5000-4500 BCE	Tisza_LN	Hungary
GEN21	3600-2850 BCE	Baden_LCA	Hungary
Bla8	4038-3532 calBCE [3786-3657 calBCE (4950±30, KIA-45006, Bla8); 3713-3642 calBCE (4905±25, KIA-45008, Bla9); 4038-3810 calBCE (5145±30, KIA-45007, Bla11); 3703-3532 calBCE (4845±35, KIA-37507, Bla24)]	Blatterhohle_MN	Germany
GEN22	3600-2850 BCE	Baden_LCA	Hungary
MIR25	2900-2346 BCE [2568-2346 calBCE (3950±30 BP, Beta-416457); 2857-2496 calBCE (4080±30 BP, Beta-416456); 2865-2575 calBCE (4110±30 BP, Beta-416458); 2900-2679 calBCE (4210±30 BP, Beta-416455); based on dates of other El Mirador samples)	Iberia_CA	Spain
Troc5	5310-5078 calBCE (6249±28 BP, MAMS-16164)	Iberia_EN	Spain
1.-K11	3263-2903 calBCE (4380±40 BP, Beta-288933)	Iberia_CA	Spain
5.-K18	3090-2894 calBCE (4350±40 BP, Beta-288937)	Iberia_CA	Spain
POPI5a	5300-4900 BCE	ALPc_I_MN	Hungary
TISO13a	5208-4942 calBCE (6110±40 BP, Poz-83630)	ALPc_Tiszadob_Bükk_MN	Hungary
ES-6G-110	2916-2714 calBCE (4250±30 BP, Beta-299305)	Iberia_CA	Spain
Inventario0/4	2481-2212 calBCE (3900±40 BP, Beta-299300)	Iberia_CA	Spain
LY.II.A.10.15066	3350-2750 BCE [3022-2779 calBCE (4290±40 BP, Beta-137895); 3090-2900 calBCE (4360±40 BP, Beta-137896); 3310-2904 calBCE	Iberia_CA	Spain

Sample ID	Date	Culture	Country
	(4390±40 BP, Beta-148054) three dates of the whole stratigraphy of the site]		
MIR14	2568-2346 calBCE (3950±30 BP, Beta-416457)	Iberia_CA	Spain
HELI11a	5209-4912 cal BCE (6100 ± 40 BP, Poz-88115)	ALPc_Tiszadob_MN	Hungary
GEN67	4444-4257 calBCE (5480±35 BP, Poz-83629)	Tiszapolgar_Bodrogkeresztur_ECA	Hungary
TISO1b	5300-4900 BCE	ALPc_Tiszadob_Bükk_MN	Hungary
Mina4	3900-3600 BCE	Iberia_MN	Spain
GEN61	3800-3600 BCE	Protoboleraz_LCA	Hungary
GEN63	3762-3636 calBCE (4890±35 BP, VERA-5160)	Protoboleraz_LCA	Hungary
SALZ77A	3400-3025 BCE	Salzmuende_MN	Germany
FEB3a	4800-4500 BCE	Lengyel_LN	Hungary
QLB15D	3654-3527 calBCE (4815±26 BP, MAMS-22818)	Baalberge_MN	Germany
Bla28	3337-3024 calBCE (4465±30, KIA-28846)	Blatterhohle_MN	Germany
Bla16	3958-3344 calBCE [3512-3344 calBCE (4615±30, KIA-28845, Bla16); 3958-3773 calBCE (5055±35, KIA-37508, Bla27)]	Blatterhohle_MN	Germany
Troc3	5294-5066 calBCE (6217±25 BP, MAMS-16161)	Iberia_EN	Spain
KAR16A	5500-4850 BCE	LBK_EN	Germany

№ 3. Лаборатории и публикации

Sample ID	Library prep location	Reference
VEJ2a	Budapest	Unpublished
HUNG372, NE5	Boston	MathiesonNature2015 (capture of same sample shotgunned in Gamba2014)
MIR5, MIR6	Boston	MathiesonNature2015
EBVO5a	Budapest	Unpublished
MEMO24b	Budapest	Unpublished
GEN49	Budapest	Unpublished
VEJ9a	Budapest	Unpublished
KAR6	Adelaide	MathiesonNature2015 (1240k of same same sample with 390k in HaakLazaridis2015)
VEJ4a	Budapest	Unpublished
ALE4a	Budapest	Unpublished
SZEH5a	Budapest	Unpublished
TOSM3a	Budapest	Unpublished
HAL15a	Adelaide	Unpublished
HAJE1a	Budapest	Unpublished
VSM3a	Budapest	Unpublished
ALE14a	Budapest	Unpublished
TOLM4a	Budapest	Unpublished
GEN17a	Budapest	Unpublished

Sample ID	Library prep location	Reference
HAL20b	Adelaide	Unpublished
HAL21a	Adelaide	Unpublished
HAL27a	Adelaide	Unpublished
LHUE2010.11	Boston	Unpublished
HAL14	Adelaide	New libraries added in to previously published data (MathiesonNature2015, which itself was more capture on sample with original 390k data in HaakLazaridis2015)
SEKU1a	Budapest	Unpublished
BAM4a	Budapest	Unpublished
BAL25b	Budapest	Unpublished
VEJ5a	Budapest	Unpublished
HAL2	Adelaide	New libraries added in to previously published data (MathiesonNature2015, which itself was more capture on sample with original 390k data in HaakLazaridis2015)
HAL24	Adelaide	New libraries added in to previously published data (MathiesonNature2015, which itself was more capture on sample with original 390k data in HaakLazaridis2015)
HAL25	Adelaide	New libraries added in to previously published data (MathiesonNature2015, which itself was more capture on sample with original 390k data in HaakLazaridis2015)
HAL39b	Adelaide	Unpublished
SALZ3B	Adelaide	MathiesonNature2015
PULE1.9a	Budapest	Unpublished
PULE1.22a	Budapest	Unpublished
BUD4a	Budapest	Unpublished
CEG07b	Budapest	Unpublished
GEN60	Budapest	Unpublished
CEG03b	Budapest	Unpublished
GEN14a	Budapest	Unpublished
SEKU10a	Budapest	Unpublished
GEN13a	Budapest	Unpublished
GEN12a	Budapest	Unpublished
PULE1.13a	Budapest	Unpublished
GEN15a	Budapest	Unpublished
MIR24	Boston	MathiesonNature2015
BAM13b	Budapest	Unpublished
GEN18	Budapest	Unpublished
LGCS1a	Budapest	Unpublished
CSAT19a	Budapest	Unpublished
VEJ12a	Budapest	Unpublished
TISO11a	Budapest	Unpublished
BAL3a	Budapest	Unpublished
BAM17b	Budapest	Unpublished
BAM25	Adelaide	MathiesonNature2015 (1240k of same same sample with 390k in HaakLazaridis2015)
VEG13a	Budapest	Unpublished
Mina3	Adelaide	MathiesonNature2015 (1240k of same same sample with 390k in HaakLazaridis2015)
HAJE10a	Budapest	Unpublished
HELI2a	Budapest	Unpublished
KOKE3a	Budapest	Unpublished

Sample ID	Library prep location	Reference
FAGA1a	Budapest	Unpublished
HUNG347, NE7	Boston	MathiesonNature2015 (capture of same sample shotgunned in Gamba2014)
ESP30	Adelaide	MathiesonNature2015 (1240k of same same sample with 390k in HaakLazaridis2015)
ES.1/4	Boston	Unpublished
MIR19	Boston	MathiesonNature2015
MIR21	Boston	MathiesonNature2015
GEN24	Budapest	Unpublished
SCHM2a	Adelaide	Unpublished
HAJE7a	Budapest	Unpublished
CSAT25a	Budapest	Unpublished
GEN23	Budapest	Unpublished
PULE1.10a	Budapest	Unpublished
Gorzsa18	Boston	Unpublished
GEN21	Budapest	Unpublished
Bla8	Boston	Unpublished
GEN22	Budapest	Unpublished
MIR25	Boston	MathiesonNature2015
Troc5	Adelaide	MathiesonNature2015 (1240k of same same sample with 390k in HaakLazaridis2015)
1.-K11	Boston	Unpublished
5.-K18	Boston	Unpublished
POPI5a	Budapest	Unpublished
TISO13a	Budapest	Unpublished
ES-6G-110	Boston	Unpublished
Inventario0/4	Boston	Unpublished
LY.II.A.10.15066	Boston	Unpublished
MIR14	Boston	MathiesonNature2015
HELI11a	Budapest	Unpublished
GEN67	Budapest	Unpublished
TISO1b	Budapest	Unpublished
Mina4	Adelaide	MathiesonNature2015 (1240k of same same sample with 390k in HaakLazaridis2015)
GEN61	Budapest	Unpublished
GEN63	Budapest	Unpublished
SALZ77A	Adelaide	Unpublished
FEB3a	Budapest	Unpublished
QLB15D	Adelaide	MathiesonNature2015 (1240k of same same sample with 390k in HaakLazaridis2015)
Bla28	Boston	Unpublished
Bla16	Boston	Unpublished
Troc3	Adelaide	MathiesonNature2015 (1240k of same same sample with 390k in HaakLazaridis2015)
KAR16A	Adelaide	MathiesonNature2015

Библиография и примечания:

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* **Полный список авторов публикации:**

Mark Lipson, Anna Szécsényi-Nagy, Swapan Mallick, Annamária Pósa, Balázs Stégmár, Victoria Keerl, Nadin Rohland, Kristin Stewardson, Matthew Ferry, Megan Michel, Jonas Oppenheimer, Nasreen Broomandkshobacht, Eadaoin Harney, Susanne Nordefelt, Bastien Llamas, Balázs

Gusztáv Mende, Kitti Köhler, Krisztián Oross, Mária Bondár, Tibor Marton, Anett Osztás, János Jakucs, Tibor Paluch, Ferenc Horváth, Pirooska Csengeri, Judit Koós, Katalin Sebok, Alexandra Anders, Pál Raczkó, Judit Regénye, Judit

P. Barna, Szilvia Fábián, Gábor Serlegi, Zoltán Toldi, Emese Gyöngyvér Nagy, János Dani, Erika Molnár, György Pálfi, László Márk, Béla Melegh, Zsolt Bánfai, Javier Fernández-Eraso, José Antonio Mujika-Alustiza, Carmen Alonso Fernández, Javier Jiménez Echevarría, Ruth Bollongino, Jörg Orschiedt, Kerstin Schierhold, Harald Meller, Alan Cooper, Joachim Burger, Eszter Bánffy, Kurt W. Alt, Carles Lalueza-Fox, Wolfgang Haak, David Reich.

