Cell Genomics, Volume 3

## Supplemental information

## Extraordinary selection on the human X chromosome

## associated with archaic admixture

Laurits Skov, Moisès Coll Macià, Elise Anne Lucotte, Maria Izabel Alvez Cavassim, David Castellano, Mikkel Heide Schierup, and Kasper Munch

0,00075 -	and all and the first in the state of the st	and a second to be after the second sec	1 M. An Antonio Antonio Antonio Alexandri Alexandri Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio
0,00075 -		the state of the second s	
0,00075 -	The second se	and service and the service services of	A Management of an end of a state of the sta
0.00075 -	the standard product of the second state of th	the second s	The second s
0,00075 -	Build an above and a second	tere, Marketerere, a surficient Markets in particular	Explore a set of a set of the set of th
0.00075 -	Difficulture of the state of th	A STATE OF A	1. Electrical states in some site data för en blir andre state andre state and some some some some site andre state and and a some some some some some some some some
0.00075 -	Mitter and the second se Second second se	and designed to be a subscription of the second sec	Beliefend op and a second s
0.00075 -	White production is a second of the time whether the second state of the second se	And but a sum of a state of a set of the	
0,00075 -	1. The second	and the second	4 Manual State Sta
0400075 -	Hallfale seats de senante de les constituies en de selence analité de la contra de la contra de la constituie en la contra	بالفقاف والترابي المتعادية والمتعاد	In the data of an and an
0,00075 -	الأأطر بالمراجع والمتحدية والمتحدة والمتحمين والمتحد والمتحد والمتحد والمتحد والمتحد والمحاد الألفا	بأكلما فريج فترق سلكف بالمعقدة ال	A second s
0,00075 -	الدارية المراجع محمد والمارية والشقافة شقامه فلارواه الألأ حصارت والتقط بماها والأراق	فالثان المالة بالتشير عدار منعد	h fight the second part of a second
0,00075 -	disality while materia and a disact section in his sector and a sector of a sector of the sector of the sector	and a large state of the second se	- 1 had be as while an an and a state data and all one are an and at the de allowing on all an area
0.00075 -	ale al an air a bhiline ann an air all a' ann an ann ann an an Ann an	An	It is not a discussion. This is the media of the little differences and the set of the set of the little differences and the set of
0.00075 -	(i) In the link of the second states and the state of the state of the states in the states of th	the state of the state back which	I detail and and some default of the control of the default of the second default of the default of the second se second second sec
0,00075 -	and the standard sectors at the second sector definition in the sector data at the second sector at the sec	and the state of the state of the state of the state of the	bit free des as ball rear as a solution of bid at balance balls of a solution to a distribution of a distribution of the
0.00075 -	where a construction of the device state the state of the	descent of the differences have been	1   Los hard and a second and a second second second and a second s
0,00075 -	المراجب والمحمد	وأحديقتها إبراقت هترين المرتدي	I have a set of the se
0,00075 -	المراجب المراجب فيعقد الاستعاد الأسلطانية والأسلطانية والأدامية الأدمد ومستع طططك فطبيه فالطرا	الإفعداد بالبارية فكالحج مستحد	La series and the series of th
0,00075 -	المانية بالم المربق المحمدة ومنتصبة والمتحافظ المتحافظ بالتقرير والمانية والمربقة والمانية المراجع المانية الم	A design of the second seco	A start Barrier and second and the start of the fulfill following an ability for a second start barrier barrier and second s
0,00075 -	(d)	and the second sec	b) the star is added, as seen 1 and the formal definition of the star is a second distribution dealer than 1000 mm.
0,00075 -	the stress is the balance in the stress of the stress stress of the stre	a state of the second s	The ball of the second se
0,00075 -	Weinstein and an and the second of these and and an alter the second sec	والقبرية بالمتد بالبجري والمتابين الاستر	be done there is and second and a real real real second and second and and a shake work as a second second second
0.00075 -	الأفاد بالمراجب والمرجب والمتعادية والمراجب والمراجب والمراجب والمرجب والمرجب والمراجع والمراج	his way to be delivery back	A An Index a conditioner of the Royal Andrew Marke set of the set of the Although Street and the set of the set
0,00075 -	Man and a second a second and a second se	the second s	الم المراجعة الحديثة والمحمد والمراجعة والمحمد ومن والمحمد والمحمد والمحمد المحمد المحمد المحمد والمحمد والمحم
0400075 -	alistic a president sector a sector de la contraction de la constituir de la constituir de la constituir de la	Listen des Miles	And the same same second and the second
0,00075 -	Malindertaffelt anterfassels and an Albertan filestan atter ta and an and	القديدي التبريد ومعرفه	1 set and an and an an and bit of the and to an an an an an all the first and a set of the set o
0,00075 -	(iii) information, the instance, etc., in solid to de final instance in the instance, and the advances of the information of the instance o	the state of the second s	b) the desired with state where will be tool in desired is the second state of a desired in the desired state of the second state of the se
0,00075 -	the black thread and the second and the second strategies of the black of the second strategies and the second strategies	aller a sells special or a lower date	the first start of the second start of the start of the start of the second start of the second start of the start of the second start of the seco
0/0075 -	the effective for the second on the effective destruction is a second of the second of the second of the second	the second s	and below to an and server and a server and a server of an and a server of an and the server at the server of the server at the ser
0,00075 -	We allow these takes to be all the these as beautifules to account whether the second se	the second of the second se	A date descented on the last of trend if the tool states when as had a second as a little Western where and
0,00075 -	Malalana uniteration and the shell and a second state of a second s	الإوابة بعدالة والمرضد عرار عبيت	الدين والعام بمانية في المنه بدينة المنه المريسة المنه المنه المنه المنه المريسة المريسة المنه المنه المنه الم
0400075 -	All all and a set of the set of t	الغافية المراجب والمحمد	a, held Brite an ann a lle an freilige die bestele beste and submerighe Hilliger, allet an 🦥
0,00075 -	the left is a second	التقابلي والقول تقليب برجالا فقل	to be at high and an a should did thigh a should be a shown as an and a still all the date of the should be at
0.00075	the line in the second se	bir die bie als and an and an	b. Referenced, and provide the state of t
0,00075 -	and the set of the barry state of the first the barry barry state of the set of the	the first state the state is the second state of the	b) the second se Second second secon second second sec
0.00075 -	the brand of all the closed sectors in the sector of the sector of the brand of the sector of the sector of the	A REAL PROPERTY AND A REAL	1. And states and a second state of the s
0,00075 -	المراجع والمراجع والمراجع والمتعارية والمتعادية والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع	the state of the state of the state of the	4 Load Banderson, and a state of Load Bander and an example of the second state of
0,00075 -	Ministration and manage and a silling of a standard matching of the standard standard standard and the	والقار الكوالقال والعرب والمحدقات	and the second
0,00075 -	and a first sector of the sect	واللغيافر بورجانه القيبين بالقبع	A DECEMBER OF A
0,00075 -	An all the second second second second as a subject to an all the second s	1. Linkson & Manual Manual Manual I.	an an a'
0.00075.4	a distant share which as a state of the sector and the sector of the distance of the sector of the s	aller, S. Mar. M. Jacks, M.M. aller Miller	1 bolt dies fahren in die eine die eine auf die eine die ein die eine eine die die die die die die die die die di
0,00075 -	which is a second of the second se	and a second sec	In the second
0.00075 -	the state deeps to be a second life, who have shall be the second descended a state	A REAL PROPERTY AND A REAL	a fight have deal was a still as the shift defendence for the same set and a fight hits a state of the
0,00075 -	Landstrand dense, in decide second betted and last when it is a	بالشير المرائيس والمحمور والمراج	believe and the second
0,00075 -	المراجع والمراجع المراجع	الإشبط فيعد أأبعارها كسيدا بممغتي برجي	h, had har, but many suffer, databatilitited and that at a suffer and many matching and the
0,00075 -	Hand and a series of the second state of the state of the second s	والمراجعة والمعالي وحاجه المقال	(1) We share a set of a star and a star at the star at the star at the star and the star at the sta
0.00075 -	lähtellik, densi säärdensette, one enallille is antere ulisikuikuit, maanasite prostanaan on ulis, on an an an	al a sate as a site bilbatter. Il ledite	b. Alle der an ander ander ander alle alle alle alle alle alle alle al
0,00075 -	by Latter out of a second s	a training to the second se	The second se
0,00075 -	Photo I and a second	and the second state of the second state of the	to a solid theorem with a stress or the solid stress of the source but sources to be sources to the solid stress of the solid
0,00075 -	المراجع المراجع والمحاجبة والمنافعة والمحاجب والمحاجب والمحاجب والمحاجب والمحاجب والمحاجبة والمحاج والأرجاب	Links see a second s	4 Middle david and an ending of a share below that had been and a state of a share a state of a
0,00075 -	Million in second subsidiaries and a static static association in the static second second second second second	الوالمطبقة فارطلب الطبيب وسخاف مماه	b Back as a solid state of the second fill data of a data allowed as a constrained by different second or a second secon second second sec
0.00075 -	The old without have to be a set of the line of the line of the set of the se	the second state of the se	I have been a set of the set of t
0,00075 -	Relation and an and the second and and an and and the boundary and an and and	and a second s	for best the same same same set to be a stability of the same set of the same set of the same set of the same set of the
0,00075 -	Million and an an entry of the local means that and a second se	لواللاصدة أبين مسجدين	1 Martin and an and the set of th
0,00075 -	المام الديار الدار بالتجار والمتعرف المتعملية والمتعارية ومطارعة المعار والمعالم فتعطر المتعرب فوالطاخ	والفائقةمية ومؤجم واستحداثهما والمعادي	👘 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘 👘
0.00075 -	Literal Bill dan Labor	and some an all the shift of	b) data bita data at a no a a bita di data data data data data data dat
0.000778	bificieratedante anterioriale er er allien dem einer einfahlen bereinen eine eit abreiten ber ihre einer ber einfahle	<ul> <li>A das sons sont das des de la fille</li> </ul>	b) Mehaller & rear and rear and rear address and table from an end of the first state of the first state of the state of the first state of the
0.00075 -	and the share of the second second states and the second	and the second s	1 Sector as a sector with a sector build and a sector build as
0,00075 -	definitional module concentration to add the tradition of a second second second second	and shall an entertheme which the shift	I have an experience of a second dependence of the second second second second second second second second second
0,00075 -	But and server a survey of the state of a default of a survey of the server of the ser	وأندكل وريويته بالبير بلغرين والروايتها	b hits many and the section of the s
0.00075 -	Added a second second and the second	والإيلاء بلابين ببالعم والعين المتعطورة	the production of the second state of the seco
0,00075 -	Mahila and an and a second and a second and a second second second second second second second second second se	والقدر الفاقا فأنج سند استربت الالات	A Destribute contract of the state of the st
0.00075 -	Hardwards, and a set of the state of the	A REAL PROPERTY OF THE REAL PR	All the solutions wild research only. The products furthermal flows are service and the first solution of the solution of the solution of the solution of the solution.
0,00075 -	A stable word to be a stable to the stable of the stable with a stable of the stable o	the first of the second difference of the second se	
0.00075	Addition of the second state of the second state of the second state of the second state of the second se	وللعقد للربي والمعم بناهين ويرجعواه ف	the set there are a set of the se
0,00075 -	Made and a second and a second and a second se	بالأحد المحاد فبرد الترجيب بالمرديات	الم وروم مرجعة المقطر ورومية ومن معرف المقطور من المطلوب من المطلوب من المرجع المرجعة المطلوب المطلوب الم
0.00075 -	International content of the state of the st	بالهمؤه حفدهم ويستبد واستبع ومت	All this process while some surgery that a subject to be a set of a surgery surgery to be proved by the subject of the surgery surgery and the surgery
0,00075 -	tall die die men in die die die die bester alle die beweren de werenden. In verdiefe	I fatter a second and the summer	n 1 beit, termerett men, eine seine all fet die find. Im mit einen richte a bit it straff mit alle mit 🦈
0,00075 -	nen e te semante, die biene einen ist andere beste eine die die die die beste beste einen die se die beste best Het is beste ein die beste eine eine eine beste eine eine die eine die eine eine eine	المالية الله المراجع لتقدر ومكرتك طلق المراجع	In the statistic particular in the statistic disease difference as a contrast, the statistic particular is seen to the statistic particular in the statistic particular is a statistic particular in the statistic particular in the statistic particular is a statistic particular in the statistic particular is a statistic particular in the statistic particular is a statistic particular in the statistic pa
0,00075	the second se	Control of the second s Second second sec	1.1 million of communications of the set
0.00075	the future and a second s	بالمطاقية ويترقهم بالترج والملاقين	the state of a state of the
0,00075 -	they beneral the barrow . Althe all subscripts of the barrow beneralised as and	والمرافقية القرب والمعاد	The second se
0,00075 -	alla de mantente attende como o attende de anticidad de la como de como de como de como de como de como de como	لوطهرياف وخليفين التحديث ال	1 I had also also a second
0.00075 -	Milderessen dere naves different var still Milderessen ander som state	بالواقل المعالي التي ويستعد	b. faraile a sam m
0,00075 -		Addition of the second se	B) And the second set of the second s second second se
0,00075 -	Description of the second state of the seco	a fait a standard for the standard for the	b) and an
0,00075 -	المراجع والمراجع	والتقارير المحمد المحمد وروريه	الا الا المراجع ا
0400075 -	the file second second statement of the second statement of the second statement of the second statement of the	Louis and share a state	di het state of a second and the second and a second de beland and a ber
0,00075 -	Maderature text, and an oblight an income direction of the state of the	بالإاليبينية المتخطب والمستحد	👘 ام و بالايد الدي الله 🕹 معالم بلا هم ، محمد، مشرح المارية الم بالايد مراجع 🗸 مهم ، ما عمر عمر في بالاقترار ف
0,00075 -	her and the second state of the second state and the second states and the second states as a second state of the second states and the se	A REAL PROPERTY AND A REAL	🐘 e had alle a la ll'adale a shi. 🛛 la a subhràssisha sashirdara e a sadal subhràdhan e sa a e 🚆 👘
0,0001/5 -	(10) March and a structure of the fill of the structure of the structur	and an an array of the second s	1 The four cost of the office of the state of the design of the three second to the block of the block of the second to the s
0.00075 -	neuronau anna an an anna an anna an anna anna anna anna anna an an	a state a state of the state of	a many metal stand and at the second standard standards with which is an even and at Mathematical Standards and a stand here with an even of the standard standards at the standard standards at the standards in the standards.
0,00075	the start of the s	I The local and the second sec	a lastin has seen a but a last dans a the see a set of the barren and a me
0,00078 -	Ababaharda daran kara anan dilite benada a sa marang bana da a san	ورواللدو يسرور بالرويس المتحد والمحادية ومرار	a tala anno anns ann - aine - aine - aine a suite à channair an ann an taiteachtean a sine an "
0,00075 -	the burner was and a children burner while a second state to be a second se	وألادها فمطرؤه بإليامه فالمتحد والمتحد فالمراج	a land a second second second second address of the second s
0,00075 -	It is a second of the second of the second s		La bad e con the later and the second state and whether and when a second black bad bad bad a second second second
and a second second second	If the second	• In the set of a	(a) definition of the second second second statement of the second se
0,00074 -	The second se		B a block many to be a block and the block of the bloc
0.00075 -	- Alterial Balance and an effective sector and and and developed and the sector and an end of the sector and	Destroyable and the selection of the sel	a las binas san anna a an an an anna airean airean anna an an an an anna an anna anna
0.00075	- Analysis for the state of the second second (https://www.second.com/second/se second/secon second/second/second/second/second/second/second/second/second/second/second/second/second/second/second/second second/second/second/second/second/second/second/second/second/second/second/second/second/second/second/second second/seco	<ul> <li>A strategic strategic setting of the set o</li></ul>	1. Charles and the second s
0.00075 - 0.00075 - 0.00075 - 0.00075 -	detecting futures and a data and a d ta data and a d	<ul> <li>A second and second as the second at the seco</li></ul>	1. Las Malais esta activativa de la construcción de secono en el constructivada de la construcción de la
0,00075 - 0,00075 - 0,00075 - 0,00075 - 0,00075 -	destability for and a state of the state	A design of the second	Le des Maar est annue en en en en en en en entre entre en entre

**Figure S1: Mean pairwise differences in 200kb windows across chromosome X for each population (related to Figure 1).** We discarded constituent 100kb windows with fewer than 50,000 called positions (50%) and considered these windows missing data. For a better visual comparison, the y-axis is truncated at 0.0015 to remove outliers. Light grey regions represent missing data.



**Figure S2: Mean pairwise differences in 100kb windows across chromosome 7 for each population (related to Figure 1).** We discarded constituent 100kb windows with fewer than 50,000 called positions (50%) and considered these windows missing data. For a better visual comparison, the y-axis is truncated at 0.0015 to remove outliers. Grey regions represent missing data.



**Figure S3: ECH inference using a clique size of 20% (related to Figure 2).** ECHs identified on each male X chromosome using 20% as the minimum number of individuals included in the haplotype clades defining an ECH.



**Figure S4: ECH inference using a clique size of 30% (related to Figure 2).** ECHs identified on each male X chromosome using 30% as the minimum number of individuals included in the haplotype clades defining an ECH.



**Figure S5: Core region of an ECH (related to Figure 4 and STAR methods).** We operationally define a region around each peak where the proportion of individuals called as ECH is at least 90% of the peak value. Similarly, we define a wide region where the proportion of individuals called as ECH is above 75% of the peak value.



**Figure S6: ECH frequencies by major geographical region (related to Figure 4).** Proportion of individuals from each geographical region called as ECH in each 100kb window. Shaded regions represent regions with missing data.



**Figure S7 Site frequency spectrum by ECH frequency (related to Figure 2 and STAR methods):** Unfolded site frequency spectrum in four bins of ECH frequency. The y-axis is cut to accommodate a large number of rare variants.



**Figure S8: ECH inference in the CEU population (related to Figure 6 and STAR methods).** (A) Distribution of mean pairwise differences in 200kb windows in neutral simulations of 49 CEU X chromosomes. (B) Distribution of mean pairwise differences in 200kb windows among the 49 male CEU samples analyzed. C) Frequency of ECHs along the X chromosome in the CEU population. Gray peaks show the proportion of 49 male haplotypes called as ECH in each 100kb window across the X chromosome. Vertical blue lines show the center of the corresponding peaks identified in the SGDP analysis.







**Figure S10: Haplotype visualizations of all ECHs (related to Figure 3 and Table S2).** The callout label of each sub-figure refers to the Data S1 columns of table S1. The left side of each sub-figure is a UPGMA tree with the x-axis representing Jukes-Cantor corrected sequence distances between male haplotypes. The individual haplotypes are shown as horizontal lines on the right with the x-axis in hg19 megabase coordinates. Haplotypes are color-coded according to geographical region. The ancient Ust'-Ishim individual is marked with grey. Vertical black bars on each haplotype represents non-reference SNPs

Peak region where			"90%-region" where frequency is at least			"75%-region" where frequency is at least				Data S1	Ust'-Ishim			
frequency is maximal			90% of its value in the peak region (see Figure S5)			75% of its value in the peak region (see Figure S5)				Subplot	male shares			
Start	End	Frequency	Start	End	Length	Lowest frequency in region	Frequency of ECHs spanning the region	Start	End	Length	Lowest frequency in region	Frequency of ECHs spanning the region	label	ECH (√/÷)
198	199	0,83	196	201	5	0,77	0,71	195	203	8	0,65	0,54	А	÷
212	213	0,81	211	216	5	0,79	0,74	207	217	10	0,62	0,52	В	√
362	364	0,66	360	364	4	0,64	0,64	359	367	8	0,51	0,31	С	1
373	377	0,51	372	377	5	0,5	0,5	372	377	5	0,5	0,5	D	÷
495	500	0,53	495	500	5	0,53	0,53	495	500	5	0,53	0,53	E	÷
508	514	0,34	508	513	5	0,41	0,41	508	513	5	0,41	0,41	F	1
542	544	0,76	540	544	4	0,74	0,74	539	544	5	0,61	0,61	G	÷
647	649	0,78	646	651	5	0,71	0,68	645	652	7	0,59	0,49	н	1
730	733	0,43	730	735	5	0,39	0,39	728	735	7	0,34	0,3	1	1
739	743	0,34	738	744	6	0,31	0,3	738	744	6	0,31	0,3	J	√
769	772	0,56	767	773	6	0,55	0,54	767	774	7	0,5	0,49	к	1
987	988	0,75	985	989	4	0,71	0,69	985	991	6	0,57	0,54	L	1
1107	1111	0,99	1102	1111	9	0,95	0,91	1094	1112	18	0,75	0,53	м	1
1140	1143	0,51	1140	1144	4	0,49	0,49	1138	1145	7	0,41	0,36	N	1
1270	1271	0,71	1268	1274	6	0,65	0,57	1268	1275	7	0,6	0,49	0	1
1297	1301	0,65	1297	1302	5	0,64	0,64	1297	1302	5	0,64	0,64	Р	1
1313	1316	0,58	1312	1316	4	0,56	0,56	1311	1316	5	0,46	0,46	Q	÷
1326	1329	0,49	1326	1329	3	0,49	0,49	1325	1331	6	0,37	0,27	R	÷
1540	1544	0,31	1539	1545	6	0,29	0,27	1539	1545	6	0,29	0,27	S	÷

 Table S1: Coordinates and frequencies of ECHs (related to Figure 4). All coordinates are listed in 100kb units of the hg19 reference.

		X chromosome	X chromosome		
Goographical region	Erogmont type	(with autosomal parameters	(with haploid parameters for	Autocomo	
America	taginent type			Autosome	
America	total	0,144	0,49	2,1	
	Altai	0,122	0,237	1,070	
	Vindija	0,011	0,024	0,255	
	Donisova	0,082	0,103	0,301	
	Ambiguous	0,029	0,027	0,133	
	Sankararaman et al. 2016 9	0.26	0,078	1 /2	
	Sankararanian et al. 2010 9	0,20	0,20	1,42	
ControlAsiaSiboria	total	0.178	0.417	2 264	
CentralAsiaSiberia	Donisova (Altai (Vindija	0,178	0,417	1.94	
		0,123	0,144	0.220	
	Vindija	0,021	0,030	1 092	
	Donisova	0,032	0,027	0.15	
	Ambiguous	0,021	0,000	0,13	
	Sankararaman at al. 2016 %	0,031	0,033	0,576	
	Sankararanian et al. 2010 9	0,23	0,23	1,45	
EastAsia	total	0.288	0.709	2 202	
LastAsia	Donisova (Altai (Vindija	0,288	0,703	1 972	
	Altai	0,211	0,30	1,073	
	Vindiio	0,014	0,038	1,007	
	Deriesus	0,131	0,211	1,097	
	Denisova	0,009	0,009	0,108	
	Ambiguous	0,038	0,083	0,303	
	Sankararaman et al. 2016	0,32	0,32	1,45	
Oceania	total	0.515	1 190	2 7/15	
oceania	Denisova /Altai /Vindija	0,515	0.745	3 3/2	
		0,414	0,745	0.289	
	Vindija	0,004	0,050	1 132	
	Denisova	0,20	0,282	1,132	
	Ambiguous	0.04	0,225	0.42	
	Sankararaman et al. 2016 9	0,04	0,178	2 30	
	Sankararaman et al. 2010	0,0	0,0	2,33	
SouthAsia	total	0.273	0.71	2 081	
southalu	Denisova/Altai/Vindija	0,273	0,71	1 658	
		0,222	0,403	0.226	
	Vindija	0,017	0.228	0,220	
	Denisova	0,152	0,228	0,001	
	Ambiguous	0,014	0,020	0,173	
	Sankararaman et al. 2016 9	0.41	0.41	1 25	
		0,41	0,41	1,23	
WestFurasia	total	0 222	0 527	1 822	
	Denisova/Altai/Vindija	0,222	0,327	1 406	
		0,133	0,202	0.21/	
	Vindija	0,014	0,04	0,214	
	Denisova	0,003	0,037	0,772	
	Ambiguous	0,007	0,009	0,000	
	Sankararaman et al. 2016 9	0,048	0,030	1 00	
	Sumararaman et al. 2010	0,18	0,10	1,00	

 Table S2: Summary of archaic admixture inference (related to Figure 7)

Sample ID	Population	Region	Sample ID	Population	Region
S_BantuHerero-1	BantuHerero	Africa	S_Papuan-12	Papuan	Oceania
S_BantuHerero-2	BantuHerero	Africa	S_Papuan-2	Papuan	Oceania
S_BantuTswana-1	BantuTswana	Africa	S_Papuan-3	Papuan	Oceania
S BantuTswana-2	BantuTswana	Africa	S Papuan-4	Papuan	Oceania
S Biaka-1	Biaka	Africa	 S Papuan-5	Papuan	Oceania
S Biaka-2	Biaka	Africa	S Papuan-6	Papuan	Oceania
B Dinka-3	Dinka	Africa	 S Panuan-7	Panuan	Oceania
S Dinka 1	Dinka	Africa	S_rapuan 9	Papuan	Oceania
S_Dirika-1	Dinka	Africa		Papuan	Oceania
S_DINKa-2	Dinka	Africa	S_Papuan-9	Papuan	Oceania
S_Esan-1	Esan	Africa	 S_Balochi-1	Balochi	SouthAsia
B_Ju_hoan_North-4	Ju_hoan_North	Africa	 S_Balochi-2	Balochi	SouthAsia
S_Ju_hoan_North-1	Ju_hoan_North	Africa	S_Bengali-1	Bengali	SouthAsia
S_Ju_hoan_North-2	Ju_hoan_North	Africa	S_Brahmin-1	Brahmin	SouthAsia
S_Ju_hoan_North-3	Ju_hoan_North	Africa	S_Brahmin-2	Brahmin	SouthAsia
B_Mandenka-3	Mandenka	Africa	S_Brahui-1	Brahui	SouthAsia
S_Mandenka-1	Mandenka	Africa	S_Brahui-2	Brahui	SouthAsia
B Mbuti-4	Mbuti	Africa	S Burusho-1	Burusho	SouthAsia
S Mbuti-1	Mbuti	Africa	S Hazara-1	Hazara	SouthAsia
S Mbuti-3	Mbuti	Africa	S Hazara-2	Hazara	SouthAsia
S_Mende-1	Mende	Africa	 S_Irula-1	Irula	SouthAsia
5_Wende-1	Versile	Africa	5_irula=1	Inula	SouthAsia
B_Yoruba-3	Yoruba	Africa	S_Irula-2	Irula	SouthAsia
S_Yoruba-2	Yoruba	Africa	 S_Kalash-1	Kalash	SouthAsia
S_Chane-1	Chane	America	S_Kapu-1	Кари	SouthAsia
B_Karitiana-3	Karitiana	America	S_Kapu-2	Кари	SouthAsia
S_Karitiana-1	Karitiana	America	S_Khonda_Dora-1	Khonda_Dora	SouthAsia
S_Mixtec-1	Mixtec	America	S_Kusunda-1	Kusunda	SouthAsia
S_Pima-1	Pima	America	S_Kusunda-2	Kusunda	SouthAsia
S Quechua-2	Quechua	America	S Madiga-1	Madiga	SouthAsia
S Zapotec-1	Zapotec	America	 S Madiga-2	Madiga	SouthAsia
S Zanotec-2	Zanotec	America	S Makrani-1	Makrani	SouthAsia
S Aleut-1	Aleut	CentralAsiaSiberia	 S Mala-2	Mala	SouthAsia
S_Aleut-1	Altein	CentralAsiaSiberia	S_IVIdia=2	Nala	SouthAsia
S_Altalan-1	Altalan	CentralAsiaSiberia	 S_IVIAIA-3	Iviala	SouthAsia
S_Chukchi-1	Chukchi	CentralAsiaSiberia	S_Pathan-1	Pathan	SouthAsia
S_Eskimo_Chaplin-1	Eskimo_Chaplin	CentralAsiaSiberia	 S_Punjabi-1	Punjabi	SouthAsia
S_Eskimo_Sireniki-1	Eskimo_Sireniki	CentralAsiaSiberia	S_Punjabi-2	Punjabi	SouthAsia
S_Even-2	Even	CentralAsiaSiberia	S_Relli-1	Relli	SouthAsia
S_Kyrgyz-1	Kyrgyz	CentralAsiaSiberia	S_Relli-2	Relli	SouthAsia
S_Mongola-1	Mongola	CentralAsiaSiberia	S_Sindhi-1	Sindhi	SouthAsia
S Tlingit-1	Tlingit	CentralAsiaSiberia	S Yadava-1	Yadava	SouthAsia
S Yakut-2	Yakut	CentralAsiaSiberia	 S Yadava-2	Yadava	SouthAsia
S Ami-1	Ami	FastAsia	S Abkhasian-1	Abkhasian	WestEurasia
S Ami-2	Ami	FastAsia	 S Abkhasian-2	Abkhasian	WestEurasia
S_Ataval 1	Ataval	EastAsia	S_Advaci 1	Adugai	WestEurasia
S_Aldydi=1	Ridydi	EastAsia	 S_Auyger-1	Auygei	WestEurasia
S_Burmese-1	Burmese	EdstAsid	 S_Armenian-1	Armenian	Westeurasia
S_Burmese-2	Burmese	EastAsia	 S_Armenian-2	Armenian	WestEurasia
S_Cambodian-1	Cambodian	EastAsia	 S_Basque-1	Basque	WestEurasia
B_Dai-4	Dai	EastAsia	S_BedouinB-1	BedouinB	WestEurasia
S_Dai-2	Dai	EastAsia	S_Bergamo-1	Bergamo	WestEurasia
B_Han-3	Han	EastAsia	S_Bulgarian-1	Bulgarian	WestEurasia
S_Han-2	Han	EastAsia	S_Bulgarian-2	Bulgarian	WestEurasia
S_Hezhen-1	Hezhen	EastAsia	S_Chechen-1	Chechen	WestEurasia
S_Japanese-1	Japanese	EastAsia	B_Crete-2	Crete	WestEurasia
S Japanese-3	Japanese	EastAsia	 S Czech-2	Czech	WestEurasia
S Kinh-2	Kinh	EastAsia	S Druze-2	Druze	WestEurasia
S Korean-1	Korean	FastAsia	S English-1	English	WestEurasia
S Jabu-2	Lahu	EactAcia	S Estonian-1	Estonian	WestEurasia
S_LdIIU=2	Mine	LastAsia	S_LStUIIdII=1	Estonian	WestEurs -:-
2_IVII30-1	IVIIAO	EdstAsia	s_tstonian-2	Estonian	vvestEurasia
S_Naxi-1	Naxi	EastAsia	S_Finnish-3	Finnish	WestEurasia
S_Oroqen-1	Oroqen	EastAsia	 B_French-3	French	WestEurasia
S_She-2	She	EastAsia	 S_French-1	French	WestEurasia
S_Thai-1	Thai	EastAsia	S_Georgian-1	Georgian	WestEurasia
S_Tu-1	Tu	EastAsia	S_Georgian-2	Georgian	WestEurasia
S_Tujia-1	Tujia	EastAsia	S_Greek-1	Greek	WestEurasia
S_Uygur-2	Uygur	EastAsia	S_Greek-2	Greek	WestEurasia
S_Xibo-1	Xibo	EastAsia	S_Hungarian-2	Hungarian	WestEurasia
S Xibo-2	Xibo	EastAsia	S Iranian-1	Iranian	WestEurasia
S Yi-1	Yi	FastAsia	S Iranian-2	Iranian	WestEurasia
B Australian-4	Australian	Oceania	S Irani Jew-?	Iragi Jew	WestFurasia
S Hawaiian 1	Hawaiian	Oceania	S lordanian 1	lordanian	WestEurosia
S_ridwalidII=1	Indwallall	Oceania	 S_JUIUdille1	Jordaniar	WestEuro -i-
5_igorot-2	igorot	oceania	s_Jordanian-2	Jordaniañ	vvestEurasia
S_Maori-1	Maori	Uceania	 S_Jordanian-3	Jordanian	WestEurasia
B_Papuan-15	Papuan	Oceania	S_Lezgin-2	Lezgin	WestEurasia
S_Papuan-10	Papuan	Oceania	S_North_Ossetian-1	North_Ossetian	WestEurasia
S_Papuan-11	Papuan	Oceania	S_North_Ossetian-2	North_Ossetian	WestEurasia

## Table S3: Male samples included in the analysis (related to Figure 2)