## Legend to CYP2D6 Allelic Variation Summary Table (R2)

A literature search was performed using the following search terms: CYP2D6, ethnic, ethnicity, populations, cytochrome P450 2D6, names of countries and/or populations such as 'Spain, Spanish, Brazil, Brazilian, etc or a combination thereof. In addition, reports were also identified from citations by others or review articles.

Manuscripts published before 1995 were excluded due to the sparse amount of genotype information provided in these reports. Also, only reports describing cohorts  $\geq$ 50 subjects were included, with few selected exceptions (i.e. smaller cohorts were part of larger studies).

'-' indicates that this allele has not been tested. N/a indicates that no average, minimum or maximum allele frequencies are available. Healthy subjects and patient cohorts are listed separately or were combined in some instances if 'no difference' was reported. The number of total subjects was not determined for each major ethnic group, because some reports utilized the same cohort(s), or a substantial number of subjects, in more than one study, e.g. to determine additional sequence variations/allelic variants.

A few studies did not report allele frequencies, but genotype counts/frequencies. In these instances, allele frequencies were calculated from the data provided.

In some instances allele frequency calculation errors were detected and are shown corrected. In some instances authors were contacted for additional information and verification. Hence, allele frequencies in this table do not always correspond with those in their original publications.

Some papers did not report the frequency of CYP2D6\*1; in such cases, its frequency was calculated as 100% - the sum of variants. CYP2D6\*1 is indicated as '-', if a manuscript only reported on a particular rare allelic variant or few variants which would dramatically overestimate the frequency of CYP2D6\*1.

For some alleles, including CYP2D6\*14 and \*56, manuscripts report an allele subtype. The reader is referred to the original article for further detail.

Note that frequencies tabulated for CYP2D6\*36 refer to the 'single' CYP2D6\*36 gene and not to the CYP2D6\*36+\*10 tandem. This tandem is typically found in Asians and is often not discriminated from alleles carrying a 'single' CYP2D6\*10 gene. Particularly in Asians, reported CYP2D6\*10 allele frequencies comprise CYP2D6\*10 and the CYP2D6\*36+\*10 tandem.

CYP2D6\*41 was tabulated as reported regardless of whether genotyping was performed using -1584C>G or 2988G>A. Note that the P450 AmpliChip Test determines CYP2D6\*41 via -1584C>G, which may particularly impact the accurate determination of CYP2D6\*2 and \*41 in Africans and their descendants. CYP2D6\*41 allele frequencies may dramatically differ depending on whether -1584C>G or 2988G>A was used for its detection.

CYP2D6\*45 and \*46 are shown separately and combined, because these alleles share a key SNP and are often not discriminated.

Note that some reports have used a re-sequencing approach. For some, only the alleles specifically reported on have been tabulated, while other alleles are shown as '-'. If absence of particular alleles could be inferred, their frequencies are shown as '0'. Please see original articles for specific information.

Many studies tested for the presence of 'gene duplications', but did not determine whether the duplication affected a CYP2D6\*1, \*2, \*4 or other gene. Often, duplications are defaulted to and reported as CYP2D6\*2xN. Unless duplications were clearly discriminated, they were tabulated in this summary table as 'undefined/other duplications'. Sometimes it may be possible to infer the nature of a duplication allele from a genotype (e.g. CYP2D6\*2/\*2x2); this however, could not systematically be captured in this tabulation. Also, some manuscripts reported on the number of gene copies, e.g. x2, x3, etc. Since there are few reports, these were combined with their respective x2 group.

Some alleles, including *CYP2D6\*1* and \*2, have a wide range of allele frequencies. These alleles are 'default' alleles, which means that if no sequence variations are detected or only a small number of variants are tested, an allele is assigned as (or defaulted to) *CYP2D6\*1* or \*2. In such instances, *CYP2D6\*1* and \*2 frequencies are likely over-estimated.

The nomenclature for *CYP2D7/2D6* hybrid alleles has recently been updated. All alleles carrying a gene composed of *CYP2D7* and *2D6* and have a T-insertion in exon 1, have been consolidated under the *CYP2D6\*13* designation. This change affects *CYP2D6\*13*, \*16, \*66, \*67, \*79 and \*80; each is shown in its own respective column, but are also shown as '\*13 revised'. Note that *CYP2D6\*76*, \*77 and \*78 have only been reported in tandem arrangements to date. These are listed separately along their revised genotypes.

This CYP2D6 allele frequency summary may not be complete. If you wish to have your paper and/or data included into this resource, or identify any errors, please contact Andrea Gaedigk, PhD at agaedigk@cmh. This table will be periodically updated to include additional reports and CYP2D6 allelic variants.

To access the *CYP2D6* allelic variation summary table in excel format please see <a href="http://www.pharmgkb.org/download.action?filename=CYP2D6">http://www.pharmgkb.org/download.action?filename=CYP2D6</a> allele frequency table R2.xlsx. The excel table was last updated August 2013.

If this legend is reached through the *CPIC Guidelines for CYP2D6 Genotype and Codeine Therapy – Supplement v.1.0* published in 2012, please note the allele frequencies for some populations have changed in the excel table referred above.

## Please see

http://www.pharmgkb.org/download.action?filename=CYP2D6\_allele\_frequency\_table.xlsx to access the previous version of *CYP2D6* allelic Variation Summary Table.

Authors	Major ethnicity	*1	*2	*3	*4	*5	*6	*7	*8	*9	*10	*14	*17	*41	*1xN	*2xN	*4xN
Daly et al  Leathart et al	Africa Africa	83.00	-	0.60	7.30	6.90	-	-	-	-	-	-	-	-	-	-	-
Leathart et al	Africa	-	-	-	-	-	0.00	-	-	0.70	5.00	-	26.00	-	-	-	-
Wan et al	Africa	34.70	26.90	0.30	7.80	6.20	-	-	-	-	7.50	-	14.60	-	-	-	-
Gaedigk et al	Africa	29.70	19.10	0.20	5.40	6.60	0.40	0.00	0.00	0.20	3.60	0.00	21.30	-	0.12	0.16	0.30
Gaedigk et al Gaedigk et al	Africa Africa	29.70	19.10	0.20	5.40	6.60	0.40	0.00	0.00	0.20	3.60	0.00	21.30	-	1.20	1.60	0.30
Gaedigk et al	Africa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gaedigk et al	Africa	-	-	-	-	-	-	-	-	-	-	-	-	2.10	-	-	-
Cai et al	Africa	36.20	4.20	0.38	7.60	5.00	0.38	0.00	0.00	1.15	2.70	0.00	15.60	14.90	0.00	2.30	1.90
Cai et al	Africa	34.10	4.90	0.55	4.90	6.60	0.00	0.00	0.00	0.55	4.90	0.00	13.70	13.70	0.00	2.20	2.20
Cai et al Gaedigk et al	Africa Africa	35.30	4.50	0.45	6.50	5.60	0.23	0.00	0.00	0.90	3.60 6.63	0.00	14.90	14.40	0.00	2.25	2.00
Gaedigk et al	Africa	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20	2.40	2.00
Gaedigk et al	Africa	-	-	-	-	-	-	-	-	-	-	-	-	-	0.71	1.42	2.68
Gaedigk et al	Africa	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	0.68	4.11
Gaedigk et al	Africa	-	-	-	-	-	-		-	-	3.20	-	-	-	-	-	
Gaedigk et al de Leon et al	Africa Africa	32.90 59.70	13.98 6.00	0.18	3.86 5.50	6.43 2.80	0.55 0.20	0.00	0.00	0.18	2.94 3.80	-	19.12 18.40	1.84 14.90	0.37	1.84 1.20	2.76
Gaedigk et al	Africa	- 39.70	- 0.00	- 0.20	- 5.50	2.00	- 0.20	-	- 0.00	- 0.40	3.00	-	10.40	-	-	1.20	2.40
Yee et al	African	30.70	28.7	0	8	8.7	0	0	0	0	2.7	0	17.3	4	-	-	-
Average		40.60	14.15	0.31	6.23	6.14	0.24	0.00	0.00	0.48	4.18	0.00	18.22	9.41	0.44	1.61	2.07
Min		29.70	4.20	0.00	3.86	2.80	0.00	0.00	0.00	0.00	2.70	0.00	13.70	1.84	0.00	0.16	0.30
Max Aklillu et al	Africa	83.00	28.70	0.60	8.00	8.70	0.55	0.00	0.00	1.15	7.50	0.00	26.00	14.90	1.20	2.40	4.11
Aklillu et al Aklillu et al	Africa Africa	61.90 21.50	13.60	0.00	1.20 4.10	3.30	-	-	-	-	8.60 8.60	-	9.00	21.60	-	-	-
Aklillu et al	Africa	18.50	14.20	0.00	5.90	3.10	0.00	-	-	-	8.00	-	14.90	25.30	-	-	-
Griese et al	Africa	43.70	10.60	0.00	7.00	6.00	0.00	0.00	0.00	0.00	3.10	0.00	27.70	-	-	-	-
Gaedigk et al	Africa	26.77	15.15	0.00	7.07	17.17	0.00	0.00	0.00	0.00	2.53	0.51	12.63	3.54	1.52	1.01	0.00
Sistonen et al	Africa	24.40	32.70	0.00	2.80	5.90	0.00	-	-	0.00	4.30	-	12.20	2.80	2.40	0.80	3.50
Bathum et al  Dandara et al	Africa Africa	87.00 42.10	21.00	0.00	4.00 2.30	4.50	27.47	-	-	-	-	-	30.10	-	-	-	-
Dandara et al	Africa	56.10	18.40	0.50	1.40	3.30	-	-	-	-	-	-	20.30	-	-	-	-
Wennerholm et al	Africa	27.80	40.00	0.00	0.90	6.30	0.00	-	-	-	3.80	-	17.00	-	-	-	1.00
Wennerholm et al	Africa	27.80	20.30	0.00	0.90	6.10	0.00	-	-	-	3.80	-	17.00	-	-	-	0.09
Man et al	Africa	29.90	30.90	0.00	6.10	1.00	0.00	0.00	-	0.40	5.70	-	20.70	-	-	-	-
Dandara et al Wright el al	Africa Africa	50.00 24.04	17.80 13.94	0.00	3.30 1.44	4.60 16.35	0.00	-	0.00	-	19.23	-	24.00 14.90	1.44	0.48	2.88	2.40
Masimirembwa et al	Africa	-	-	-	-	-	-	-	-	-	-	-	34.00	1.44	-	-	-
Dandara et al	Africa	47.00	13.00	0.00	2.00	4.00	-	-	-	-	-	-	34.00	-	-	-	-
Average		39.23	20.12	0.03	3.36	6.07	3.05	0.00	0.00	0.10	6.77	0.26	19.98	10.94	1.47	1.56	1.40
Min		18.50	10.60	0.00	0.90	1.00	0.00	0.00	0.00	0.00	2.53	0.00	9.00	1.44	0.48	0.80	0.00
Max Mendoza et al	Americas	87.00 10.29	40.00 45.60	0.50 0.57	7.07 20.63	17.17 4.58	27.47	0.00	0.00	0.40	19.23 14.90	0.51	34.00 1.43	25.30	2.40	2.88	3.50
Casner	Americas	75.00	-	0.00	17.00	2.00	0.00	0.00	0.00	-	1.00	-	2.00	-	-		-
Luo et al	Americas	55.10	22.00	0.20	10.00	1.70	0.40	0.00	0.00	1.10	2.80	0.00	0.20	5.50	0.00	0.60	0.20
Gaedigk et al	Americas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bailliet et al	Americas	39.90	23.80	0.00	17.80	0.00	4.20	-	0.60	-	7.10	1.80	-	-	-	-	-
da Silva Silveira et al da SilvaSilveira et al	Americas Americas	78.91 87.88	-	7.89 3.03	13.16 9.09	-	-	-	-	-	-	-	-	-	-	-	-
da SilvaSilveira et al	Americas	82.87	-	3.09	14.04	-	-	-	-	-	-	-	-	-	-	-	-
da SilvaSilveira et al	Americas	88.76	-	1.69	9.55	-	-	-	-	-	-	-	-	-	-	-	-
Kohlrausch et al	Americas	41.38	12.65	1.15	6.32	4.02	0.00	-	-	0.00	4.02	0.00	9.20	10.92	0.00	1.72	0.00
Kohlrausch et al	Americas	42.93	12.50	0.00	10.33	1.09	2.17	-	-	2.17	2.72	0.54	2.17	7.07	0.54	4.35	1.62
Kohlrausch et al Antunes et al	Americas Americas	38.44 37.11	18.28 17.53	1.07 2.06	13.18 14.43	2.15 4.64	0.54 0.52	0.00	0.00	1.61 3.61	2.15 1.03	0.00	1.34	8.33 4.12	0.54	2.96	0.54 1.03
Jurima-Romet et al	Americas	89.10	-	0.00	8.62	4.04	-	-	-	3.01	2.30	-	-	4.12	-	-	1.03
Nowak et al	Americas	94.00	-	0.00	3.00	-	-	-	-	-	3.00	-	-	-	-	-	-
Nowak et al	Americas	68.00	-	0.00	24.00	-	-	-	-	-	8.00	-	-	-	-	-	-
Sistonen et al	Americas	60.20	30.10	0.00	3.20	0.90	0.00	-	-	0.00	0.00	-	0.50	0.00	2.30	2.80	0.00
Munoz et al Roco et al	Americas Americas	66.10	18.50	0.00	3.60 11.86	4.20	-	-	-	0.00	1.80	-	-	-	-	-	-
Isaza et al	Americas	38.80	37.00	1.20	19.40	0.80	0.00	0.00	0.00	-	-	-	1.60	-	-	-	-
Lierena et al	Americas	67.20	-	0.00	14.30	1.60	1.20	-	-	-	0.80	-	10.20	-	-	-	0.00
Llerena et al	Americas	76.48	-	0.00	14.60	1.90	0.08	-	-	-	0.40	-	2.70	-	-	-	0.04
Dorado et al	Americas	47.90	31.35	0.40	10.60	2.10	0.00	-	-	-	1.30	-	0.42	2.54	0.42	0.42	0.85
Lopez et al  Contreras et al	Americas Americas	43.42	19.34	1.44	11.21	2.67	-	-	-	-	12.45	-	1.65	-	1.65	3.29	-
Contreras et al	Americas	50.00	25.50	0.00	14.00	2.00	-	-	-	-	2.60	-	0.00	-	-	-	-
Salazar-Flores	Americas	96.12	-	0	3.88	-	0	0	0	-	-	-	-	-	-	-	-
Salazar-Flores	Americas	93.20	-	1.2	5.6	-	0	0	0	-	-	-	-	-	-	<u> </u>	-
Sosa-Macias et al	Americas	83.70	-	0.90	13.10	-	0.00	-	-	-	2.30	-		-	-	-	-
Sosa-Macias et al Agundez et al	Americas Americas	99.40 70.10	-	0.00 1.80	0.60 15.70	3.60	0.00	-	-	4.40	0.00 3.30	-	-	-		-	-
Llerena et al	Americas	76.10	-	0.00	14.20	4.60	0.00	-	-		3.10	-	0.00	-	-	-	0.00
Jorge et al	Americas	84.90	-	0.00	14.00	0.00	1.10	-	-	-	-	-	-	-	-	-	-
Jorge et al	Americas	82.40	-	0.00	17.10	0.00	0.50	-	-	-	-	-	-	-	-		-
Ruaño et al	Americas	-	-	-	0.20	-	-	-	-	-	-	-	-	-	-	-	-
Gaedigk et al	Americas Americas	36.89	13.59	0.49	1.94	5.34	0	0	- 0	0	2.91	0	16.5	1.46	0.49	4.37	2.91
Montana et al		44.61	17.37	0.49	11.68	2.69	0	0	0	0.3	5.09	0	0	13.47	0.49	0.9	0
Montane et al  Montane et al	Americas			0.00	12.30	0.00	0.00	-	-	-	2.80	-	-	-	-	-	-
Montane et al  Montane et al  Griman et al	Americas Americas	62.80	22.10	0.00									1	1			-
Montane et al		39.90	11.30	0.00	42.50	0.00	0.00	-	-	-	6.30	-	-	-	-	-	
Montane et al Griman et al Griman et al Griman et al	Americas Americas Americas	39.90 59.80	11.30 31.50	0.00	42.50 5.40	0.00	0.00	-	-	-	3.30	-	-	-	-	-	-
Montane et al Griman et al	Americas Americas Americas Americas	39.90 59.80 81.20	11.30 31.50 15.00	0.00 0.00 0.00	42.50 5.40 2.50	0.00	0.00	-	-	-	3.30 1.30		-	-	-	-	-
Montane et al Griman et al	Americas Americas Americas Americas Americas	39.90 59.80 81.20 63.80	11.30 31.50 15.00 32.80	0.00 0.00 0.00 0.00	42.50 5.40 2.50 1.70	0.00 0.00 0.00	0.00 0.00 0.00	-	-	-	3.30 1.30 1.70	-	-	-	-	-	-
Montane et al Griman et al	Americas Americas Americas Americas	39.90 59.80 81.20 63.80 75.00	11.30 31.50 15.00 32.80 20.80	0.00 0.00 0.00 0.00 0.00	42.50 5.40 2.50 1.70 4.20	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	-	-	3.30 1.30 1.70 0.00	-	-	-	-	-	-
Montane et al Griman et al	Americas Americas Americas Americas Americas Americas Americas Americas	39.90 59.80 81.20 63.80	11.30 31.50 15.00 32.80	0.00 0.00 0.00 0.00	42.50 5.40 2.50 1.70	0.00 0.00 0.00	0.00 0.00 0.00	- - - - - 0.00	- - -	-	3.30 1.30 1.70		- - -	-	- - -		

Authors Min	Major ethnicity	* <b>1</b>	*2 11.30	*3 0.00	* <b>4</b>	* <b>5</b>	* <b>6</b>	*7 0.00	0.00	* <b>9</b>	*10 0.00	*14 0.00	*17 0.00	*41 0.00	*1xN 0.00	*2xN 0.42	*4xN 0.00
Max		99.40	37.90	3.09	42.50	5.34	2.17	0.00	0.00	4.40	12.45	0.54	16.50	13.47	2.30	4.37	2.91
Gaedigk et al	Asian	-	-	-	-	-	-	-	-	-	18.42	-	-	-	-	-	-
Man et al	Asian	31.00	11.20	0.00	0.40	3.20	0.00	0.00	-	0.00	49.40	0.60	0.00	-	-	-	-
Ji et al	East Asia East Asia	37.90 38.35	-	0.00	0.20	7.20 2.54	0.00	-	0.00	1.27	51.30 56.99	2.00	0.21	-	-	-	-
Cai et al	East Asia	-	-	- 0.00		2.54	-	-	-	-	55.80	1.80	- 0.21	-	-	-	-
Sheng et al	East Asia	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41	0.00	0.00
Myrand et al	East Asia	21.60	16.00	0.00	0.00	6.40	0.00	0.00	0.00	-	53.00	0.50	-	-	-	-	-
Qin et al	East Asia	25.68	10.87	0.00	0.00	7.06	0.00	0.00	0.00	0.00	50.54	1.63	-	-	-	-	-
Qin et al Qin et al	East Asia East Asia	24.72 17.95	15.73 8.33	0.00	0.56	3.67 3.85	0.00	0.00	0.00	0.00	46.63 64.10	1.12 2.56	-	-	-	-	-
Zhou et al	East Asia	18.50	14.00	0.00	1.00	7.00	0.50	0.00	0.00	0.00	49.00	1.50	0.00	4.00	0.00	0.50	0.00
Kim et al	East Asia	27.50	13.50	-	-	9.60	-	-	-	-	43.80	1.10	-	2.20	-	-	-
Man et al	East Asia	28.10	11.00	0.00	1.10	6.10	0.00	0.00	-	0.00	48.40	1.10	0.00	-	-	-	-
Zuo et al	East Asia	-	-	-	-	-	-	-	-	-	57.35	-	-	-	-	-	-
Zuo et al	East Asia	-	-	-	-	-	-	-	-	-	22.43 39.72	-	-	-	-	-	-
Zuo et al Zuo et al	East Asia East Asia	1	-	-	-	-	-	-	-	-	46.52	-	-	-	-	-	-
Qin et al	East Asia	30.23	9.30	0.00	0.00	4.07	0.00	0.00	0.00	0.00	48.84	0.00	-	-	-	-	-
Yin et al	East Asia	-	-	-	-	-	-	-	-	-	48.72	-	-	-	-	-	-
Yin et al	East Asia	-	-	-	-	-	-	-	-	-	51.00	-	-	-	-	-	-
Yin et al	East Asia	-	-	-	-	-	-	-	-	-	25.22	-	-	-	-	-	-
Jin et al	East Asia	25.00	42.71	0 00	2.70	2.08	0 00	0	0	0 00	28.13	0	0 00	1.56	0.40	0.60	0.00
Sistonen et al  Love et al	East Asia East Asia	30.90	16.40 12.40	0.00	2.70 0.00	5.80 2.40	0.00	-	-	0.00	39.40 52.40	-	0.00	2.30 2.80	0.40	0.60	0.00
Chida et al	East Asia	93.79	-	0.00	0.00	4.10	-	-	-	-	52.40	-	-	2.00	-	-	-
Tateishi et al	East Asia	42.30	9.20	0.00	0.50	6.10	-	-	-	-	40.80	-	-	-	-	-	-
Kubota et al	East Asia	40.20	12.96	0.00	0.00	6.17	-	-	-	-	38.58	2.16	0.00	-	-	-	-
Nishida et al	East Asia	43.00	12.30	-	0.20	4.50	-	-	-	-	38.10	0.70	-	-	0.50	0.50	-
Chida et al	East Asia East Asia	39.80	12.30	-	0.00	6.20	-	-	-	-	37.00	2.20	-	-	0.30	0.30	-
Ishiguro et al Yamazaki et al	East Asia	41.10	9.20	0.00	0.50	6.10	0.00	0.00	0.00	0.00	40.80	0.00	0.00	-	0.30	0.30	-
Soyama et al	East Asia	-	-	-	0.50	3.52	-	-	-	-	31.22	0.7	-	-	-	-	-
Ebisawa et al	East Asia	42.66	11.36	-	0.17	7.17	-	-	-	-	36.19	-	-	-	-	-	-
Ikenaga et al	East Asia	-	10.20	-	-	-	-	-	-	-	-	-	-	2.60	-	-	-
Myrand et al	East Asia	27.00	15.50	0.00	0.50	7.00	0.00	0.00	0.00	-	43.00	0.50	-	-	-	-	-
Myrand et al	East Asia	32.30	14.40	0.00	0.50	7.10	0.00	0.00	0.00	-	42.80	0.00	-	-	-	-	-
Myrand et al Hosono et al	East Asia East Asia	33.50 43.40	18.30 12.80	0.00	0.00	4.80 5.70	0.00	0.00	0.00	0.00	37.30 8.60	0.00	0.00	-	0.50	0.40	0.00
Kiyotani et al	East Asia	38.78	7.65	0.00	0.40	7.14	0.00	0.00	0.00	0.00	8.67	0.00	0.00	1.53	0.51	0.00	0.00
Man et al	East Asia	44.50	10.00	0.00	0.10	5.10	0.00	0.00	-	0.00	37.80	0.10	0.00	-	-	-	-
Kiyotani et al	East Asia	47.45	-	-	0.00	4.59	0.00	-	-	-	45.92	0.00	-	0.51	-	-	-
Lee et al	East Asia	33.25	10.13	0.00	0.25	6.13	0.00	0.00	0.00	0.00	45.00	0.50	0.00	1.88	0.13	0.50	0.00
Myrand et al	East Asia	17.50	17.50	0.00	0.50	7.50	0.00	0.00	0.00	-	50.00	3.00	-	-	-	-	-
Lee et al Kim et al	East Asia East Asia	32.32 32.30	10.88	0.00	0.00	5.61 5.60	-	-	-	-	45.58 45.60	0.33	-	2.24	0.07	0.99	0.00
Man et al	East Asia	33.60	12.10	0.00	0.80	6.20	0.00	0.00	-	0.00	44.10	0.50	0.00		-	-	-
Kim et al	East Asia	34.69	12.24	0.00	0.00	9.18	0.00	0.00	0.00	0.00	17.35	0.00	0.00	0.00	-	-	-
Suwannasri et al	East Asia	21.00	9.70	-	0.70	4.30	0.00	-	-	-	44.60	1.04	-	-	-	-	-
Chamnanphon et al	East Asia	35.00	9.6	0	0.9	4.4	0	0	0	0	45.6	0.9	0	1.8	0	0	0
Veiga et al	East Asia	47.10 24.60	7.80	-	1.40	8.00 6.10	-	-	-	-	43.50 57.00	1.20	-	2.90	-	-	-
Kim et al Love et al	East Asia East Asia	24.00	11.00	0.00	0.50	5.00	0.00	-	-	_	58.50	1.20	-	1.00	-	-	
Average		34.17	12.82	0.00	0.42	5.61	0.02	0.00	0.00	0.07	42.31	0.86	0.01	1.97	0.28	0.38	0.00
Min		17.50	7.65	0.00	0.00	2.08	0.00	0.00	0.00	0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00
Max		93.79	42.71	0.00	2.70	9.60	0.50	0.00	0.00	1.27	64.10	3.00	0.21	4.00	0.51	0.99	0.00
Daly et al	Europe	- 22.50	- 22.70	1.70	- 47.00		- 1.00	- 0.40	- 0.40	- 270	- 1.50	- 0.00	- 0.40	-	-	-	-
Marez et al Sachse et al	Europe Europe	33.50 36.40	32.70 32.40	1.70 2.04	17.20 20.70	6.90 1.95	1.20 0.93	0.10	0.10	2.70 1.78	1.50 1.53	0.00	0.10	-	0.51	1.34	0.08
Leathart et al	Europe	76.00	-	1.20	18.00	2.90	- 0.93	-	-	-	-	-	-	-	-	-	-
Leathart et al	Europe	-	-	-	-	-	0.70	-	-	2.00	4.00	-	0.00	-	-	-	-
Griese et al	Europe	35.60	32.20	1.00	19.50	4.10	1.30	0.30	0.30	2.00	2.00	-	0.00	-	-	-	-
Gaedigk et al	Europe	37.00	33.70	1.00	17.50	3.80	1.00	0.00	0.00	2.90	1.90	-	0.20	-	0.20	0.70	0.20
Aynacioglu et al Wan et al	Europe Europe	37.10 40.60	35.30 26.20	0.00 1.40	11.30 19.90	1.49 2.10	0.74	0.50	0.00	0.62	6.06 8.00	0.00	1.11 0.30	-	3.59	1.98	0.25
Tamminga et al	Europe	79.30	- 20.20	1.80	18.40	- 2.10	0.40	0.10	0.00	-	- 6.00	-	-	-	-	-	-
Molden et al	Europe	71.08	-	0.00	21.08	6.02	1.81	-	-	-	-	-	-	-	-	-	-
Niewinski et al	Europe	75.70	-	1.30	23.00	-	-	-	-	-	-	-	-	-	-	-	-
Gaikovitch et al	Europe	70.86	-	1.03	17.07	2.41	1.21	-	-	-	4.14	-	-	-	1.72	0.52	0.00
Bozina et al	Europe	76.75	-	2.75	14.00	1.00	1.50	-	-	-	-	-	-	-			$\vdash \vdash \vdash$
Gaedigk et al Raimundo et al	Europe Europe	36.40	- 17.50	-	-	-	-	-	-	2.10	1.80	-	-	8.40	0.00	1.10	-
Scordo et al	Europe	75.00	-	0.70	15.30	3.40	1.40	-	-	2.10	-	-	-	- 0.40	- 0.00	-	-
Fuselli et al	Europe	41.18	35.29	0.00	17.65	1.96	0.00		-	0.98	0.98	-	0.98	-	0.00	0.98	0.00
Fuselli et al	Europe	36.46	40.63	0.00	12.50	1.04	0.00	-	-	0.00	4.17	-	0.00	-	0.00	2.08	0.00
Zachrisson et al	Europe	36.70	32.40	1.40	24.40	4.30	0.09	-	-	-	-	-	-	-	-	-	-
Zachrisson et al	Europe	42.80	34.10	1.50	16.90	3.80	0.80	-	-	-	-	-	-	- 7.00	-	-	-
Gaedigk et al	Europe	- 92.00	-	2.00	15.00	-	-	-	-	-	-	-	-	7.60	-	-	-
Aydin et al Halling et al	Europe Europe	83.00 61.60	-	2.00 0.20	15.00 33.40	-	1.90	-	-	0.80	-	-	-	-	-	-	-
Pedersen et al	Europe	69.38	-	2.17	22.64	-	1.99	-	-	3.80	-	-	-	-	-	-	-
Li et al	Europe	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toscano et al	Europe	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gaedigk et al	Europe	-	-	-	-	-	-	-	-	-	3.83	-	-	-	-	-	-
Menoyo et al	Europe	31.00	40.47	0.95	13.80	3.33	0.95	0.00	0.00	2.38	1.90	0.00	- 0.00	-	1.90	1.90	0.47
Rasmussen et al Gaedigk et al	Europe	36.90	22.40	3.10	19.10	2.90	1.60	0.00	0.00	3.60	0.90	-	0.00	6.90	0.20	1.80	0.00
Gaedigk et al	Europe Europe	-	-	-	-	-	-	-	-	-	1.47	-	-	-	0.00	0.76	0.38
created by A. C		-							2								

Authors	Major ethnicity	*1	*2	*3	*4	*5	*6	*7	*8	*9	*10	*14	*17	*41	*1xN	*2xN	*4xN
Sistonen et al	Europe	34.40	28.70	0.30	17.20	3.20	0.60	-	-	2.50	2.90	-	0.00	7.00	0.60	1.30	0.60
Scott et al	Europe	28.60	16.40	0.80	22.60	0.80	0.20	-	-	0.80	6.20	-	0.80	14.00	2.20	5.80	-
Arvanitidis et al	Europe	72.44		2.30	17.84	-	-	-	-	-	-	-	-	-	-	-	-
Rasmussen et al	Europe	38.50	18.40	1.60	19.70	5.30	1.30	0.00	0.00	2.90	1.60	-	0.00	9.80	0.00	0.80	0.00
Koseler et al	Europe	79.2	-	0.9	21.00 16.5	2.7	0.7	-	-	-	-	-	-	-	-	-	-
Crescenti et al Crescenti et al	Europe Europe	77	-	2	19	2.7	1	-	-	-	-	-	-	-	-	-	-
Crescenti et al	Europe	78	-	1	20	0	2	-	-	-	-	-	_	-	-	-	-
Gaedigk et al	Europe	36.46	21.90	1.01	19.74	3.31	1.01	0.14	0.00	3.03	2.16	-	0.43	8.07	0.29	0.58	0.43
Myrand et al	Europe	37.50	32.80	2.10	18.20	1.70	2.10	0.00	0.00	-	1.40	0.00	-	-	-	-	-
Gjerde et al	Europe	74.83	-	0.33	20.53	2.32	0.33	-	-	-	-	-	-	-	-	-	-
Buzková	Europe	69.50	-	1.10	22.90	3.10	0.20	-	-	-	-	-	-	-	-	-	-
de Leon et al	Europe	37.40	15.90	1.80	21.00	2.30	1.10	0.00	0.00	2.90	1.00	-	0.30	9.80	0.70	0.50	0.10
Gaedigk et al	Europe	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rebsamen et al	Europe	35.50	15.50	0.60	20.60	2.40	1.20	0.30	0.00	2.70	2.70	0.00	0.30	7.30	0.60	1.50	0.30
Correia et al Man et al	Europe Europe	74.60 32.00	25.10	1.40 2.20	13.30 18.80	2.80 3.30	1.87 1.70	0.10	-	1.70	2.80	0.00	0.10	-	-	-	-
Gaedigk et al	Europe	32.00	25.10	2.20	10.00	3.30	1.70	0.10	-	1.70	2.00	0.00	0.10	-	-	_	-
Gaedigk et al	Europe	_	-	_		-	-	_	-	_	-	_		-	-	_	
Fernandez-Santander et al	Europe	81.30	-	0.90	15.90	1.90	0.00	0.00	0.00	-	-	-	-	-	-	-	-
Fernandez-Santander et al	Europe	78.20	-	1.60	18.50	1.00	0.50	0.20	0.00	-	-	-	-	-	-	-	-
De Luca et al	Europe	68.60	-	3.20	17.70	0.00	0.90	-	-	-	-	-	-	9.50	-	-	-
De Luca et al	Europe	68.30	-	0.90	16.10	1.80	0.90	-	-	-	-	-	-	11.90	-	-	-
Vangsted	Europe	70.90	-	1.30	21.90	3.80	0.60	-	-	-	-	-	-	-	-	-	-
Zachrisson et al	Europe	41.40	33.70	1.50	16.30	3.60	0.80	-	-	-	-	-	-	-	1.30	0.80	0.60
Zachrisson et al	Europe	41.30	29.70	3.10	18.50	3.10	0.80	-	-	-	-	-	-	-	1.00	1.80	0.60
Wesmiller et al	Europe	33.48	29.46	0.45	19.64	0	-	-	-	2.23	1.79	-	-	-	-	-	-
Serin et al Háber et al	Europe Europe	69.00 28.20	20	2.7	10 29.1	3 0	2.5 1.8	0	0	1.8	14.5 1.8	0	0	6.4	- 0	0	0
Zafra Cores et al	Europe	35.00	20	0	18.89	5.6	0	0	0	5	3.89	0	1.11	6.11	2.22	0.56	0
Fernández_Santander et al	Europe	65.04	10.53	0.75	11.65	3.38	0.38	0	0	1.5	0.38	0	0.75	3.76	-	-	-
Zachrisson et al	Europe	40.70	31.50	2.40	19.30	3.90	0.70	-	-	-	-	-	-	-	0.50	0.00	1.00
Rideg et al	Europe	39.80	15.10	1.80	20.40	1.80	0.40	0.40	-	1.40	-	-	-	8.00	0.40	1.40	-
Beer et al	Europe	35.90	27.30	0.50	14.00	1.60	0.50	0.00	0.00	1.60	4.30	0.00	0.00	12.40	0.50	1.10	0.00
Sahin et al	Europe	-	-	-	12.00	-	-	-	-	-	-	-	-	-	-	-	-
Slanar et al	Europe	72.40	-	1.00	20.20	3.50	0.00	-	-	-	-	-	-	-	-	-	-
Average		53.63	26.91	1.32	18.50	2.69	0.95	0.11	0.02	2.14	3.16	0.00	0.32	8.56	0.80	1.27	0.25
Min Max		28.20	10.53	0.00	10.00 33.40	0.00	0.00 2.50	0.00	0.00	0.00	0.38	0.00	0.00	3.76	0.00	0.00	0.00
Max McLellan et al	Middle East	83.00 89.50	40.63	3.20	33.40	6.90 1.00	2.50	0.50	0.30	5.00	14.50 3.00	0.00	3.00	14.00	3.59	5.80	1.00
Fuselli et al	Middle East	47.06	30.39	0.00	9.80	0.98	0.98	-	-	0.00	2.94	-	0.00	-	3.92	3.92	0.00
Luo et al	Middle East	49.00	9.00	0.00	4.00	3.00	-	_	_	-	2.00	-	2.00	29.00	-	-	- 0.00
Sistonen et al	Middle East	35.10	25.00	0.00	6.80	3.70	1.40	-	-	0.00	0.70	-	2.00	16.90	3.70	3.40	0.00
Kouhi et al	Middle East	56.50	32.00	-	12.50	3.00		-	-	-	9.00	-	0.00	-	-	-	-
Qumsieh et al	Middle East	39.1	12.2	0	9	-	0	0	0	0	3.3	0	2.5	15.2	1.6	4.3	-
Hashemi-Soteh et al	Middle East	90.00	-	0.50	9.00	-	0.50	-	-	-	-	-	-	-	-	-	-
Average		58.04	21.72	0.10	7.80	2.34	0.72	0.00	0.00	0.00	3.49	0.00	1.58	20.37	3.07	3.87	0.00
Min Max		35.10 90.00	9.00 32.00	0.00	3.50 12.50	0.98 3.70	0.00 1.40	n/a n/a	n/a n/a	0.00	0.70 9.00	n/a n/a	0.00 3.00	15.20 29.00	1.60 3.92	3.40 4.30	0.00
Griese et al	Oceania	85.80	3.80	0.00	1.50	7.50	0.00	0.00	0.00	0.00	0.80	11/a -	0.20	29.00	3.92	30	- 0.00
Sistonen et al	Oceania	71.80	0.00	0.00	0.00	1.30	0.00	-	-	0.00	2.60	-	0.00	0.00	11.50	0.00	0.00
von Ahsen et al	Oceania	63.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.00	-	-
von Ahsen et al	Oceania	60.00	1.00	0.00	3.00	8.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	13.00	-	-
Average		70.15	1.20	0.00	1.13	4.95	0.00	0.00	0.00	0.00	1.60	0.00	0.05	0.00	11.83	0.00	0.00
Min		60.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.00	0.00	0.00
Max		85.80	3.80	0.00	FALSE	8.00	0.00	0.00	0.00	0.00	3.00	0.00	0.20	0.00	13.00	0.00	0.00
Ismail & The	South/Central Asia	69.00	-	0.00	8.00	1.00	-	-	-	1.00	15.00	-	1.00	-	-	-	-
Teh et al	South/Central Asia	37.90	-	0.00	2.80	5.10	-	-	-	3.30	49.50	-	0.50	-	-	-	-
Adithan et al Naveen et al	South/Central Asia South/Central Asia	72.20 46.10	34.80	0.00	6.60 7.30	0.90 1.90	-	-	-	-	20.30 10.20	0.00	0.00	-	-	-	H
Sistonen et al	Central/South Asians	43.30	29.00	0.00	8.10	3.80	0.00	-	-	0.00	3.80	- 0.00	0.00	10.50	0.50	0.50	0.00
Average	OGHILAI/OUULI ASIAIIS	53.70	31.90	0.00	6.56	2.54	0.00	n/a	n/a	1.43	19.76	0.00	0.00	10.50	0.50	0.50	0.00
Min		37.90	29.00	0.00	2.80	0.90	0.00	n/a	n/a	0.00	3.80	0.00	0.00	10.50	0.50	0.50	0.00
Max		72.20	34.80	0.00	8.10	5.10	0.00	n/a	n/a	3.30	49.50	0.00	1.00	10.50	0.50	0.50	0.00

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			11505219			Southern CA	healthy subjects		34.70	26.90 0	0.30 7.80	6.20	0.40					-				0.00			+ -	-	-	-		700		-	$\rightarrow$	+
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Average Min	0.00	n/a n/a	n/a 0.5	3 1.20	10.94	0.00	0.96	n/a n/a	5.77	0.00 4.0	4 n/a	n/a	0.00 0.00	n/a	n/a 0.0	0 n/a	nla nla	0.00 n/s	0.00	n/a n/a			0.51 0.26 0.00 0.00	0.51	n/a n/a	n/a 0	00 0.00	0.48	0.48	n/a n/	a n/a	n/a n/a		n/a n/a	n/a n/a	nla nla	n/a n/a	n/a n/a	1.15
Max	0.00	n/a	n/a 1.6	0 2.40	25.30	0.00	0.96	n/a	5.77	0.00 4.0	4 n/a	n/a	0.00 0.00	n/a	n/a 0.0	0 n/a	nla	0.00 n/s	0.00	n/a n/a			1.01 0.51	0.51	n/a	n/a 0	0.00	0.48	0.48	n/a n/	a n/a		n/a	nla	n/a n/a n/a n/a	nla	n/a	n/a	2.00
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Authors	*1xN	*2xN	*4xN	*6xN	*10xN	*17xN	*29xN	*35xN	*36xN	*41xN	*45xN	duplications	xN	*36+*10	*36+*10x2	*36x2+*10	*36x3+*10	(*13+*2)	(*13+*2)	(*13+*2)	ment
Daly et al	-	-	-	-	-	-		-	-		-	-	-					-	-	-	
Leathart et al	-	-	-	-	-	-	-	-	-	-	-	2.40	2.40	-	-	-		-	-	-	-
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Wan et al	-	-	-	-	-	-	-	-	-		-	1.90	1.90	-		-		-	-	-	-
Gaedigk et al	0.12	0.16	0.30	-	-	-	-	-	-	-	-	0.00	0.58	-	-	-		-	-	-	-
Gaedigk et al	1.20	1.60	0.30	-	-	-	-		-			-	3.10		-		-	-	-	-	-
Gaedigk et al					-	-						-				-				-	
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Cai et al	0.00	2.30	1.90		0.00	0.00			-	1.20		0.00	5.40							-	
Cai et al	0.00	2.20	2.20		0.55	0.55				0.00		0.00	5.50	-		-	-			-	
Cai et al	0.00	2.25	2.00	-	0.23	0.23	-		-	0.68		0.00	5.39		-	-	-	-	-	-	
Gaedigk et al	-				0.00				0.00					0.25				-			_
Gaedigk et al	1.20	2.40	2.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	5.60								
Gaedigk et al	0.71	1.42	2.68	0.00	0.00	0.18	0.00	0.00		0.18	0.18	0.36	5.71								
Gaedigk et al	0.00	0.68	4.11	0.68	0.00	0.68	0.68	0.00		0.00	0.00	0.00	6.83								
Gaedigk et al	0.00	0.00	7.11	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.05		-						<u> </u>
Gaeogk et al	0.37	1.84	2.76	-	0.18	0.00	-		-	0.00	0.18	0.00	5.33		-	-		-	-	-	-
Gaedigk et al				-	0.18		-		-	0.00	0.18			-	-	-	-			-	-
de Leon et al	0.80	1.20	2.40	-	-	0.20	0.20	-	-	-	-	0.00	4.80	-	-	-	-	-	-	-	-
Gaedigk et al			-		-	-	-	-	-		-	-	-	-		-	-		-	-	
Yee et al																	-				
Average	0.44	1.61	2.07	0.23	0.12	0.23	0.22	0.00	0.00	0.29	0.09	0.42	4.38	0.25	n/a	n/a		n/a	n/a	n/a	n/
Min	0.00	0.16	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.25	n/a	n/a		n/a	n/a	n/a	n/
Max	1.20	2.40	4.11	0.68	0.55	0.68	0.68	0.00	0.00	1.20	0.18	2.40	6.83	0.25	n/a	n/a		n/a	n/a	n/a	n/
Aktiliu et al	-	-	-	-	-	-			-			16.00	16.00			-	-	-		-	
Akillu et al	-				-							16.00	16.00			-					
Aktilu et al			· .		T .	T			· .			10.10	10.10								
Griese et al	_			<u> </u>			_	_		_		1.60	1.60				<u> </u>				
Gaediok et al	1.52	1.01	0.00	0.00	0.00	0.00	0.00	0.00	<u> </u>	0.00	0.00	0.00	2.53	_					-	<u> </u>	1.5
				0.00		0.00	0.00	0.00	-		0.00	0.00		-	-	-	<del>-</del>	-	-	-	1.5
Sistonen et al	2.40	0.80	3.50	-	0.00	-	-	-	-	0.00	-		6.70				<u> </u>	-	-	-	-
Bathum et al	-	-		-	-	-	-	-			-	9.00	9.00	-	-	-	_	-	-	-	-
Dandara et al	-	-	-		-	-	-	-	-		-	· · ·	· · ·	-	-	-	-	-	-	-	-
Dandara et al	-	-	-	-	-	-	-	- 1	-		- 1	-	-		-	-		-	-	-	1
Wennerholm et al			1.00									3.40	4.40								ш-
Wennerholm et al			0.09		-							3.30	3.39	-		-	-			-	
Man et al																		-			_
Dandara et al																					
Wright et al	0.48	2.88	2.40					_					5.76		-						<u> </u>
Masimirembwa et al	0.46	2.00	2.40	-	-	-	-		-		-	_	5.76		-	-		-	-	-	-
	-	-	-	<u> </u>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dandara et al	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
Average	1.47	1.56	1.40	0.00	0.00	0.00	0.00	0.00	n/a	0.00	0.00	7.43	7.55	n/a	n/a	n/a		n/a	n/a	n/a	1.5
Min	0.48	0.80	0.00	0.00	0.00	0.00	0.00	0.00	n/a	0.00	0.00	0.00	1.60	n/a	n/a	n/a		n/a	n/a	n/a	1.5
Max	2.40	2.88	3.50	0.00	0.00	0.00	0.00	0.00	n/a	0.00	0.00	16.00	16.00	n/a	n/a	n/a		n/a	n/a	n/a	1.5
Mendoza et al	-	-	-		-				-			2.00	2.00			-		-	-		
Casner			-						-			3.00	3.00							-	
Luo et al	0.00	0.60	0.20	-	0.00	0.00	-		-	0.00	0.00	0.00	0.80		-	-	-	-	-	-	-
Gaedigk et al	-	-			-													-			
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da Silva Silveira et al								_							-						<u> </u>
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da SilvaSilveira et al		-	-	-	-	-	-		-	-		-	-	-	-	-	-			-	-
Kohlrausch et al	0.00	1.72	0.00		-		-	0.00		0.57		-	2.29	-		-	-			-	-
Kohlrausch et al	0.54	4.35	1.62		-	-	-	0.00	-	0.00	-	-	6.51	-		-	-		-	-	
Kohlrausch et al	0.54	2.96	0.54		-	-		0.27		0.27		-	4.58			-				-	
Antunes et al			1.03									2.58	3.61		-	-				-	
Jurima-Romet et al																					Щ.
Nowak et al		-														-				-	1
Nowak et al	-																	-			
Sistonen et al	2.30	2.80	0.00		0.00					0.00			5.10			-		-		-	
Munoz et al						T			· .									· .			
Roco et al			<u> </u>	<u> </u>					<u> </u>							-					
Isaza et al	_			_								1.20	1.20								_
	<u> </u>		0.00	<u> </u>	<del>-</del>	-	_	_	<u> </u>	-	-			_					-	<u> </u>	Η.
Lierena et al	-	-	0.00	-		-	-		-			4.70	4.70	-	-			-	-	-	-
Lierena et al	-	-	0.04	-	-	-	-	-		-	-	3.80	3.84		-	-	-	-	-		-
Dorado et al	0.42	0.42	0.85	0.00	0.00	0.00	0.00	0.00		0.00	-	-	1.69			-	-	-	-		-
Lopez et al	1.65	3.29	-		2.88	-	-	-	-		-	· · ·	7.82	-	-	-	-	-	-	-	-
Contreras et al	-	-	-	-	-	-	-	- 1	-		- 1	-	-		-	-		-	-	-	-
Contreras et al												3.60	3.60								ш-
Salazar-Flores					-											-					ш-
Salazar-Flores					-								-			-	-				
Sosa-Macias et al	-	-	-		-				-							-		-		-	
Sosa-Macias et al			· .		T .	T			· .									- ·			
Agundez et al	_			<u> </u>			_			-		1.10	1.10	_			<del></del>				1
	<u> </u>		0.00	<u> </u>	<del>-</del>	-	_	_	<u> </u>	-	-			_					-	<u> </u>	-
Lierena et al	-	-	0.00	-		-	-					2.00	2.00	-	-			-	-	-	-
Jorge et al	-	-	-		-	-	-	-	-		-	· · ·	· · · ·	-	-	-	-	-	-	-	-
Jorge et al	-	-	-	-	-	-	-	- 1	-		- 1	-	-		-	-		-	-	-	1
Ruaño et al																					_
Gaedigk et al		-														-				-	
Montane et al	0.49	4.37	2.91		-					0			7.77		0			0	0	0	
Montane et al	0.6	0.9	0						· .	0.3			1.80		0.3			0.3	0	0	
Griman et al	0.0			_						0.0		<u> </u>	1.00		0.0			0.0			
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Griman et al	-	-	-		-	-	-	-	-		-	· · ·	· · · ·	-	-	-	-	-	-	-	-
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Griman et al Griman et al			-		-				-							-		-		-	
Griman et al Griman et al	-																			-	
Griman et al Griman et al Griman et al	0.72	220	. 0.60	0.00	0.72	0.00	0.00	0.07	n/n	0.14	0.00	2.40	2.52	nin	0.16	nin	nia	0.16	0.00	0.00	
Griman et al Griman et al	0.73	2.38	0.60	0.00	0.72	0.00	0.00	0.07	n/a n/a	0.14	0.00	2.40	3.52 0.80	nta nta	0.15	n/a n/a	nia nia	0.15	0.00	0.00	n

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							N Subjects genotyped								*13														
Authors Gaedigk et al	Year 2007	PMID 16415112	Major ethnicity Asian	Population not specified	Add'I population info	Subject type healthy subjects	genotyped 38	- 4	-2	*3 *4 *5	*6 *7	-8	-9 -10 -11 -12 - 18.42 0.00 49.40	-13	revised -	*14 *15 *16	*17 *1	-19	*20	*21 *22	*23 *24	*25	*26	*27	*28 *29	*30 *3	1 *32	*33	*34 *3
Man et al Ji et al		12089164	Asian East Asia	not specified Chinese		healthy subjects healthy subjects	246 223	37.90		0.00 0.20 7.20 0	.00 0.00	0.00	- 51.30		- 1	2.00	0.00 -	-		0.60 -			-	-					0.00 -
Ismail et al Cai et al	2003	12911679 17186005	East Asia East Asia	Chinese Chinese	living in Malaysia	healthy subjects+patients healthy subjects	236 295	38.35	-	0.00 0.21 2.54		-	1.27 56.99	-	-	1.80	0.21	-	-			-	-	-	1 1			-	
Sheng et al Myrand et al	2007	17241532	East Asia East Asia	Chinese Chinese	Eastern Han Singapore	healthy subjects healthy subjects	363	21.60	16.00	0 0.00 0.00 6.40 0		0.00	53.00	-	-	0.50	- 0.0		-	0.50		+ :	-	-				-	
Qin et al Qin et al	2008	18632250 18632250	Fast Asia	Chinese Chinese	Han, X/an Han, Shenyang	healthy subjects healthy subjects	100	25.68 24.72	10.87	7 0.00 0.00 7.06 0	.00 0.00	0.00	0.00 50.54 0.00 0.00		0.00				-			-	-	-			-	-	
Qin et al	2008	18632250	East Asia	Chinese	Han, Shantou	healthy subjects	100	17.95	8.33	0.00 0.00 3.85	0.00	0.00	0.00 64.10 0.00 0.00	0.00	0.00	2.56					1 1	-			1 1				
Zhou et al Kim et al	2010	20828547	East Asia East Asia	Chinese Chinese	Han, Beijing Han	HapMap and healthy subjects DNA Repository of the PGRC	100	27.50	13.50	9.60			0.00 49.00 0.00 0.00 - 43.80	1		1.10	0.00 0.0 - 0.0			1.10 -		0.00	0.00	0.00	- 0.00	0.00 0.0	10 -	-	0.00 0.0
Man et al Zuo et al	2010	20173083 22224559	East Asia East Asia	Chinese Chinese	Han Han	healthy subjects healthy subjects	500 136	28.10	11.00	0 0.00 1.10 6.10 0	.00 0.00	-	0.00 48.40 57.35	-	-	1.10	0.00 -	-	-	0.30 -		-	-	-				-	0.00 -
Zuo et al Zuo et al	2012	22224559 22224559	East Asia East Asia	Chinese Chinese	Uyghur Hui	healthy subjects healthy subjects	214 164	-				-	22.43	-	-			-	-			-	-	-			-	-	
Zuo et al	2012	22224559	East Asia	Chinese	Mongolian	healthy subjects	158	1	9.30	0.00 0.00 4.07 0		1	. 46.52					-			: :	-	-		1 1			-	
Qin et al Yin et al		21913948	East Asia	Chinese Chinese-Han	Han, Shanghai from across China	healthy subjects healthy subjects	100 214	30.23	9.30	0.00 0.00 4.07 0	- 0.00	0.00	- 48.72	-	-						1 1		-			1 1			1 1
Yin et al Yin et al	2012	21913948 21913948	East Asia East Asia	Chinese-Hui Chinese-Mongolian	Ningxia Hui Autonomous Region Inner Mongolia Autonomous Region	healthy subjects healthy subjects	111	-	1			+ :	- 51.00 - 25.22		-			+ :				+ :	1				+ :		
Jin et al Sistonen et al	2013	23644254 17301689	East Asia	Chinese-Tibetan East Asians		healthy subjects Human Genome Diversity Panels	96 241	25.00	42.71 16.40	1 0 0 2.08 0 0.00 2.70 5.80 0	0 0	0	0 28.13 0 0 0.00 39.40	-	-	0 0 -	0 0	0	0	0 0	0 0	0	0	0	- 0.00	0 0	0	0	0 0
Love et al Chida et al	2013	23476897 10471060	East Asia	Filipino		breast cancer patients healthy subjects	138	93.79	12.40	0.00 0.00 2.40 0 0.00 0.77 4.10	.00 -	-	- 52.40	-	-				-			-	-	-			-	-	
Tateishi et al	1999	10340923	East Asia	Japanese Japanese		healthy subjects	98	42.30	9.20	0.00 0.50 6.10	1 1		- 40.80				- 0.0	) .		1.00 -	1 1	-			1 1				
Kubota et al Nishida et al	2000	10886115 10975611	East Asia	Japanese Japanese Japanese		healthy subjects healthy subjects	162 206	43.00	12.96 12.30				- 38.58 0.00 0.00 - 38.10			2.16	0.00 0.0 - 0.2			1 1		- :	1		1 1				1 1
Chida et al Ishiguro et al	2002	12439227 12680892	East Asia East Asia East Asia	Japanese Japanese		healthy subjects healthy subjects	151	39.80	12.30	0.00 6.20		+ :	37.00		- 1	2.20		+ :		0.30		+ :	-				+ :		
Yamazaki et al Sovama et al				Japanese Japanese		healthy subjects subjects on antiarrythmic drups and/or beta-blockers	86 254	41.10	9.20	0.00 0.50 6.10 0 - 0 3.52	.00 0.00	0.00	0.00 40.80 0.00 0.00 - 31.22	0.00	0.00	0.00 0.00 0.00	0.00 0.0	0.00	0.00	1.70 0.00 0	0.00 0.0	0.00	0.00		0.00 0.00	0.00 0.0	0.00	0.00	0.00 0.0
Ebisawa et al	2005	16141609	East Asia	Japanese		healthy subjects	286		11.36		- 1	1	36.19		- 1			1		0.70 -		1	Ė	0.17	-   -		+	1	
	2008		East Asia	Japanese Japanese	Native Japanese	healthy subjects healthy subjects	100	27.00	15.50	0 0.00 0.50 7.00 0	.00 0.00	0.00	- 43.00			0.50	- 0.0			0.50 -		1					1		- 0.0
Myrand et al Myrand et al	2008	18231117 18231117	East Asia East Asia	Japanese Japanese	1st generation Japanese 3rd generation Japanese	healthy subjects healthy subjects	105 82	32.30 33.50 43.40	14.40	0 0.00 0.50 7.10 0 0 0.00 0.00 4.80 0	.00 0.00	0.00	- 42.80 - 37.30			0.00	- 0.0		-	0.00 -			1				Ė		
Hosono et al Kiyotani et al	2009	19541866 20700584	East Asia East Asia	Japanese Japanese		healthy subjects healthy subjects	98	38.78	7.65	0.00 0.51 7.14 0	0.00	0.00	0.00 8.60 0.00 0.00 0.00 8.67 0.00 0.00	0.00	0.00	0.30 0.00 -	0.00 0.4	0.00	0.00	0.50 - 1.02 0.00	0.00 0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.0	0.00	0.00	0.00 0.0
Man et al Kiyotani et al	2010	20173083 21947681	East Asia	Japanese		healthy subjects	398	44.60	10.00	0.00 0.10 5.10 0	0.00		0.00 37.90			0.10	0.00 -			0.60			-			- 1	1.0	1	0.00
Lee et al	2006	16778723	East Asia	Japanese Korean		breast cancer patients anonymized subjects	400	33.25	10.13	- 0.00 4.59 0 3 0.00 0.25 6.13 0 0 0.00 0.50 7.50 0	0.00	0.00	0.00 45.00 0.00 0.00	0.00	0.00	0.50 0.00 0.00	0.00 0.0			1.02 - 0.25 -		T:	Ė	0.38			1	F	- 0.1
Myrand et al Lee et al	2009	18231117 19364831	East Asia	Korean Korean		healthy subjects healthy subjects	100 758					0.00			- 1	3.00	- 0.0	3 -	<del>                                     </del>	0.00 -		1:	1		1 1		#:	1:	
Kim et al Man et al	2010 2010	20828547 20173083	East Asia East Asia	Korean Korean		DNA Repository of the PGRC healthy subjects	758 200	32.30 33.60	10.10	0 5.60 0 0.00 0.80 6.20 0		+:	- 45.60 0.00 44.10		- 1	0.30	0.00			0.3 -		1:	l:				1:	+:	0.00
Kim et al Suwannasri et al	2012		East Asia	Korean Thai		healthy subjects healthy subjects	49 288	21.00	9.70	0.00 0.00 9.18 0	0.00		0.00 17.35 0.00 0.00 - 44.60	0.00	0.00	0.00 0.00 0.00	0.00 0.0	0.00	0.00	0.00 -			1		- 0.00		1		
Chamnanphon et al	2042	23776391 18979093	Front Asia	Thai	Kinh origin	breast cancer patients	57	35.00 47.10	9.6	0 0.9 4.4 - 1.40 8.00	0 0	0	0 45.6 0 - - 43.50 -	-	-	0.9 0 -	0 -	0	0		-   -	0	0	-	- 0	0 0	-	-	- 0.
Veiga et al Kim et al	2010	20828547	East Asia	Vietnamese Vietnamese	Viet Kinh	healthy subjects DNA Repository of the PGRC	122	24.60	7.80				57.00	1		1.20	- 0.0			0.00	1 1				1 1		-		
Love et al Average	2013	23476897	East Asia	Vietnamese		breast cancer patients	86	24.00 34.17	11.00 12.82 7.65	0 0.00 0.50 5.00 0 2 0.00 0.42 5.61 0 6 0.00 0.00 2.08 0	1.00 -	0.00	0.07 42.31 0.00 0.00	0.00	0.00	0.86 0.00 0.00	0.01 0.0	0.00	0.00	0.52 0.00	0.00 0.0	0.00	0.00	0.09	0.00 0.00	0.00 0.0	0.00	0.00	0.00 0.1
Min Max								17.50 93.79	7.65 42.71	0.00 0.00 2.08 0 1 0.00 2.70 9.60 0	0.00		0.00 8.60 0.00 0.00 1.27 64.10 0.00 0.00			0.00 0.00 0.00 3.00 0.00 0.00		0.00		1.70 0.00	0.00 0.0	0.00	0.00		0.00 0.00	0.00 0.0		0.00	
Daly et al		8873218		Europeans+North Americans		healthy subjects +patients	1829 672		32.70				2.70 1.50 0.10 0.10	<0.1	<0.1	<1		0.10				-	-	-			-	-	
Marez et al Sachse et al	1997	9241659 9012401	Europe	French Germans		healthy(n=144); various diseases (n=528) healthy subjects	589	36.40	32.40	0 2.04 20.70 1.95 0	.93 0.08	0.00	1.78 1.53 0.00 0.00	0.00		0.00 0.08 0.08		- 0.10			1 1	-			1 1				
Leathart et al Leathart et al	1998	9918137 9918137	Europe	Caucasians Caucasians		healthy subjects healthy subjects+cases	war		_	1.20 18.00 2.90	.70 -		2.00 4.00				0.00			1 1		- :	1		1 1				1 1
Griese et al Gaedigk et al	1998 1999	9511177 10634130	Europe Europe	Germans North Americans		healthy subjects healthy subjects	195	35.60 37.00	32.20	0 1.00 19.50 4.10 1 0 1.00 17.50 3.80	.00 0.00	0.00	2.90 1.90 0.00 0.00		0.30	0.30 - 0.00 0.20		) .				+ :	-				+ :		
Gaedigk et al Aynacioglu et al Wan et al	1999	10460072 11505219	Europe	Turkish North Americans	SE Anatolia Southern CA	healthy subjects healthy subjects	404	37.10 40.60	35.30	0 0.00 11.30 1.49 0	.74 0.50	0.00	0.62 6.06 0.00 0.00 - 8.00	-		0.00 0.00 -		-	-			+ :	-	-				-	
Tamminga et al	2001	11829201	Europe	Dutch		healthy subjects	765	79.30		1.80 18.40 - ( 0.00 21.08 6.02	.40 0.10	0.00		-	-			-	-			-	-	-			-	-	
Molden et al Niewinski et al	2002	12536989	Europe	Norwegian Polish		healthy subjects healthy subjects	83 300	71.08 75.70		1.30 23.00 -											1 1	-			1 1				
Galkovitch et al Bozina et al	2003	12879168 12950145	Europe Europe	Russian Croatian	Voronezh Region	71 healthy+other misc patients healthy subjects	290 200.00	70.86 76.75	1	1.03 17.07 2.41 1 2.75 14.00 1.00	.50 -		4.14			1 1 1				1 1			1				1		
Gaedigk et al Raimundo et al	2004	12811367 15289790	Europe	North Americans Germans	Kansas City	healthy subjects healthy subjects		38.40	17.50			+ :	2.10 1.80		-			+ :				+ :	-				+ :		- 5.2
Scordo et al Fuselli et al	2004 2004	15177309	Europe	Italian Spanish	Southern Spain	healthy subjects healthy subjects	360 51	75.00 41.18	35.29	0.70 15.30 3.40	.40 -	-	0.98 0.98	-	-		0.98	-	-			+ :	-	-				-	
Fuselli et al Zachrisson et al	2004	15340360 15349706	Europe	Sardinians Swedish	and the same of th	healthy subjects blood donors	48 281	36.46 36.70	40.63	3 0.00 12.50 1.04 0	.00 -	-	0.00 4.17	-	-		0.00 -	-	-			-	-	-			-	-	
Zachrisson et al	2004	15349706	Europe	Swedish		fatal intoxication cases	236	42.80	34.10	0 1.50 16.90 3.80 (	1.80 -										1 1	-			1 1				
Gaedigk et al Aydin et al	2005	15735618 15648054	Europe	North Americans Turkish	Kansas City	healthy subjects healthy subjects	140	83.00	Ė	2.00 15.00 -	1 1	-									1 1	-	1		1 1	1 1	-		1 1
Halling et al Pedersen et al	2005	16025294 15961977	Europe	Faroese Danish		healthy subjects healthy subjects	309 276	61.60 69.38		0.20 33.40 - 1	.90 -		3.80										1				Ė		
Li et al Toscano et al	2006 2006	16679388 17001296	Europe Europe	Caucasians Germans		hepatocytes healthy subjects	51 308	+	1	1 1 1 1	<del>.   .</del>	+	<del>-                                      </del>	ĿŦ				+-	<del>                                     </del>			+-	<u> </u>		<del>:   :  </del>	1 1	+	+=	
Gaedigk et al Menovo et al	2006 2006	16415111	Europe	North Americans Spanish		healthy subjects	209	31.00	40.47	7 0.95 13.80 3.33 (		0.00	. 3.83 2.38 1.90 . 0.00		-			1		0.00	-	-	1			-	F	1	-
Rasmussen et al	2006	16537246	Europe	Danish		healthy subjects psychiatric patients healthy subjects	225	36.90	22.40	3.10 19.10 2.90	.60 0.00		3.60 0.90 0.00 0.00		0.40	- 0.00 0.40	0.00	1			- 1	1	Ė		-   -	- 1	Ŧ	Ė	
Gaedigk et al Gaedigk et al Sistonen et al	2007	17259947 17392730 17301689	Europe	North Americans North Americans Europeans		healthy subjects healthy subjects Human Genome Diversity Panels	262 339 157	34.40	1.	0 0.30 17.20 3.20 0			- 1.47 2.50 2.90				0.00				1 1	1					#	1	
Scott et al	2007	17301689 18240905	Europe	Ashkenazi Jews	New York	healthy subjects	250	28.60	16.40	0.80 22.60 0.80 (	120 -	1	2.50 2.90 0.80 6.20				0.00 -	1		1 1		1:	1		- 0.00		#:	1:	
Arvanitidis et al Rasmussen et al				Greek		healthy subjects	283	72.44					0.80 6.20					1 -		- 1 - 1	-   -	-	H				±:	+:	
	2007	17635181 16537247	Europe	Danish		healthy controls	244	38.50	18.40	1.60 19.70 5.30		0.00	2.90 1.60 0.00 0.00		0.00	- 0.00 0.00	0.00										1	1	H:T
Koseler et al Crescenti et al	2007	17635181 16537247 17374963	Europe	Turkish	Bursa Barcelona				18.40	0 1.60 19.70 5.30 : - 21.00 -	30 0.00	0.00	2.90 1.60 0.00 0.00		0.00		0.00						-	-:-				-	
Crescenti et al	2007 2007 2007	17635181 16537247 17374963 17714084	Europe Europe	Turkish Spanish Spanish	Barcelona Barcelona	Trauma service patients psychiatric patients (no extrapyramidal symptoms)	244 100 290	79.2	18.40	0 1.60 19.70 5.30 1 - 21.00 - 0.9 16.5 2.7	.30 0.00	0.00	2.90 1.60 0.00 0.00		0.00		0.00	-					-				-		
Crescenti et al Crescenti et al Crescenti et al Gaedigk et al	2007 2007 2007 2008 2008 2008	17635181 16537247 17374963 17714084 18346175 18346175 17971818	Europe Europe Europe Europe Europe Europe Europe	Turkish Spanish Spanish Spanish North Americans	Barcelona	Trauma service patients	244 100 290	79.2 77 78 36.46	18.40	0 1.60 19.70 5.30 · 21.00 - 21.00 - 21.00 - 2.7 2 19 2 1 20 0 0 1 10.74 19.74 2.31 1 2.00 0 1 10.74 19.74 2.31 1 2.00 0 1 10.74 19.74 2.31 1 10.74 19.			2.90 1.60 0.00 0.00 	-	0.14	- 0.00 0.00  	0.43	-				-			0.14		-	-	
Crescenti et al Crescenti et al Crescenti et al Grescenti et al Gaedigk et al Myrand et al Gjerde et al	2007 2007 2007 2008 2008 2008 2008 2008	17635181 16537247 17374963 17714084 18346175 18346175 17971818 18231117 17947222	Europe	Turkish Spanish Spanish Spanish North Americans Caucasians Norwegian	Barcelona Barcelona	Trauma service patients psychiatric patients (no extrapyramistal symptoms) psychiatric patients (no extrapyramistal symptoms) peathy subjects repatients with entrapyramistal symptoms) healthy subjects breast cancer patients	244 100 290 188 79 347 142 151	79.2 77 78 36.46 37.50 74.83	21.90	0 1.60 19.70 5.30 21.00 - 0.9 16.5 2.7 2 19 2 1 20 0 0 1.01 19.74 3.31 1 0 2.10 18.20 1.70 2 0.33 20.53 2.32 0	30 0.00 		290 1.60 0.00 0.00 	-	0.14	- 0.00 0.00  		-				-			0.14				
Crescenti et al Crescenti et al Crescenti et al Gaedigk et al Myrand et al Gjerde et al Buzkovå de Leon et al	2007 2007 2007 2008 2008 2008 2008 2008	17835181 16537247 17374963 17714084 18346175 18346175 18346175 17971818 18231117 17947222 17311388	Europe	Turkish Spanish Spanish Spanish Spanish North Americans Caucasians Norrecjan Czech North Americans	Barcelona Barcelona	Trauma service patients psychiatric patients (no extrapramidal symptoms) psychiatric patients (no extrapramidal symptoms) psychiatric patients (with extrapyramidal symptoms) healthy subjects patients (with resident disease healthy subjects passat cancer patients healthy subjects mentals (ill patients)	244 100 290 188 79	79.2 77 78 36.46 37.50	21.90	0 180 19.70 5.30 - 21.00 - 21.00 - 2.7	30 0.00  0.7 - 1 - 2 - .01 0.14 1.10 0.00	0.00	290 160 0.00 0.00 	-	0.14	- 0.00 0.00 	0.43 - 0.0			0.00					- 0.14			-	· · ·
Crescenti et al Crescenti et al Crescenti et al Grescenti et al Gaedigk et al Myrand et al Gjerde et al Buzkovå de Leon et al Gaedigk et al	2007 2007 2007 2008 2008 2008 2008 2008	17835181 16537247 17374963 17714084 18346175 18346175 18346175 17971818 18231117 17947222 17311388	Europe	Turkish Spanish Spanish Spanish Spanish North Americans Caucaslairs Nornecian Czech North Americans North Americans North Americans	Barcelona Barcelona Barcelona	Trauma service patients psychatric patients (in entrapyramisal symptoms) psychatric patients (inc. entrapyramisal symptoms) psychatric patients (with entrapyramisal symptoms) healthy subjects patients (with unrelated disease healthy subjects phrast cancer patients healthy subjects mentally il patients healthy subjects	244 100 290 188 79 347 142 151 223	79.2 77 78 36.46 37.50 74.83 69.50 37.40	18.40 	0 180 19.70 5.30 - 21.00 - 21.00 - 2.7	30 0.00  0.7 - 1 - 2 - .01 0.14 1.10 0.00	0.00	290 160 0.00 0.00 	-	0.14	- 0.00 0.00 	0.43 - 0.0 	0.00					-				-		
Crescenti et al Crescenti et al Crescenti et al Crescenti et al Glaedigk et al Myrand et al Gjerde et al Buzkovid de Leon et al Glaedigk et al Rebsamen et al Correia et al	2007 2007 2007 2008 2008 2008 2008 2008	17635181 16537247 17374963 17714084 18346175 18346175 17971818 18231117 17947222 17311358 191690185 18797858	Europe	Turksin Spanish Spanish Spanish North Americans Cascasians Noreegian Czech North Americans North Americans Swiss Shorth Americans North Americans Swiss Portugese	Barcelona Barcelona Barcelona	Trauma service patients sporchaffic patients no estatyuranteal symphomis polychaffic patients no estatyuranteal symphomis polychaffic patients believe daspyramited symphomis healthy subsets. Self-extraction of disease healthy subsets. healthy subsets	244 100 290 188 79 347 142 151 223	79.2 77 78 36.46 37.50 74.83 69.50 37.40	21,90 32,80 15,50	0 1.80 19.70 5.30		0.00 0.00 0.00 - - 0.00	250 150 0.00 0.00 	-	0.14	- 0.00 0.00 	0.43 - 0.0	0.00	0.00	0.00					- 0.02				- 4.8
Crescenti et al Crescenti et al Crescenti et al Crescenti et al Gaedigik et al Myrand et al Gierde et al Buzkova de Leon et al Gaedigik et al Andrea Georgia et al Gaedigik et al Andrea Georgia Georg	2007 2007 2007 2008 2008 2008 2008 2008	17635181 16537247 17374963 17714084 13346175 13346175 13946175 17971818 18231117 17947222 17311358 19169185 18797858 18797858 18797858 18797858 18797858	Europe	Turken Spanieh Spanieh Spanieh Spanieh North Americans Canasiaries North Americans Canasiaries North Americans Oxit Manticans North Americans Sellies Portugene North Americans Europeans North Americans Europeans North Americans Europeans	Barcelona Barcelona Barcelona Barcelona Kentucky	Trauma service patients paychildric patients in on estimparqualed servicibris porchaldric patients in on estimparqualed servicibris bellet participation of the composition of the composition of the composition of health's selection health's selection mentals it patients health's selection health's selection health's health's selection health's health'	244 100 290 188 79 347 142 151 223 3779 >1500 165 100	79.2 77 78 36.46 37.50 74.83 69.50 37.40	21,90 32,80 15,50	0 1.80 19.70 5.30		0.00 0.00 0.00 - - 0.00	290 160 0.00 0.00 	-	0.14	- 0.00 0.00 	0.43 - 0.00 0.30 0.30 0.30 0.30	0.00	0.00	0.00					- 0.02	. 0.5	17 -		- 7.3
Crescont et al Guedigk et al Rebeamen et al Guedigk et al Man et al Guedigk et al	2007 2007 2007 2008 2008 2008 2008 2008	17635181 16537247 17374963 17714084 13714084 13846175 13846175 13946175 17971818 18231117 17947222 17311358 19169185 18797858 18891960 19405050 20173083 20473659 20473659	Europe	Turken Bpanish Bpanish Bpanish Morth Americans Control States Porthagese Porthagese North Americans North Americans North Americans North Americans North Americans	Barcelona Barcelona Barcelona	Trauma series patients proclimatic patients proclimatic patients proclimatic patients proclimatic proclimatic patients patients proclimatic patients patients patients proclimatic patients pati	244 100 290 188 188 79 347 142 223 3779 21500 165 100 454 176 237	79.2 77 78 36.46 37.50 74.83 69.50 37.40 35.50 74.60 32.00	18.40 21.90 32.80 15.50 25.10	0 1860 1970 530 1 1 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 2 1		0.00 0.00 0.00 	250 150 0.00 0.00 	-	0.14	- 0.00 0.00 	0.43 - 0.00 0.30 0.30 0.30 0.30	0.00	0.00						- 0.02		17 -		- 7.3
Crescent et al Gaedigk et al Myrand et al Gierde et al Gierde et al Gierde et al Gaedigk et al Campilg et al Rebearmen et al Gaedigk et al Man et al Gaedigk et al	2007 2007 2007 2008 2008 2008 2008 2008	17635181 16537247 17374963 17774084 17374963 17774084 17346175 18346175 18231117 17947222 1731138 19197185 182707358 18591960 20173083 20473659 20473659 20473659	Europe	Turken Bparrich Bparrich Bearrich Bearrich Cancellaries Cancellaries Cancellaries Cancellaries Cancellaries Nomeagean Cancellaries Noth Americans Nome Americans Forth Americans Forth Americans of Lurgeons Bearrich Moth Americans (Lurgeons Bearrich) Dect Americans December	Barcelona Barcelona Barcelona  Kentucky  Kentucky  Kansas City	Trauma service patients possible procedures are procedured patients and procedures patients are entirely procedured patients in the entargonament are entered to the procedure patients and the patients and the patients are patients between the patients patients are patients between the patients patients and patients are patients patien	244 100 290 188 79 347 142 223 3779 >150 165 100 454 176 237 104 185	79.2 77 78 36.46 37.50 74.83 69.50 37.40 - 32.00 - 81.30 78.20	18.40 21.90 32.80 15.50 25.10	0 1560 1500 1500 1500 1500 1500 1500 150		0.00 0.00 0.00 	250 150 0.00 0.00 	-	0.14	- 0.00 0.00 	0.43 - 0.00 0.30 0.30 0.30 0.30	0.00	0.00						- 0.02	. 0.5	17 -		- 7.3
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Gaedigk et al Rebsamen et al Correia et al					7.30			=										Е			Ε				$\equiv$											3	1			3	-		-
Man et al Gaedigk et al Gaedigk et al	Ė		- 0.00	-	+:												:   -	+:		:   -		+ -			+	1:	1					1	H								#		1.80
Fernandez-Santander et al	Ė				#:		-				1	-	1					+:		:   :	+	# :			+:	-	1:		-		#:	-		-	-						#		$\pm$
Fernandez-Santander et al  De Luca et al  De Luca et al	Ė		11	1:	9.50						#	Ė						#:			#	+			+:	1=	Ė					1									=		
De Luca et al Vangsted Zachrisson et al	Ė		11		11.90								Ė								F	H	Ė		+	H	Ħ				Ħ	1						Ħ			#		#
Zachrisson et al Wesmiller et al	Ė		- 12.9	5 .										-		-									1				-			1			-	-					-	-	-
Serin et al Håber et al	0			0	6.4														-				-			-	-	-				-	- 1				1 1		-		-	-	-
Zafra-Ceres et al Fernández Santander et al	0		: :	-	6.11 3.76			-				-	-		-	-	: :	-		: :			- :			-	1	-	-:					-	-					-:-	-	-	-
Zachrisson et al Rideg et al Beer et al	÷			-	8.00	Ė						+:						+:		1	-	-			+:		1	-			1	1		-							#	-	
	Ė		0.00 -	0.00	12.40			0.00		- 0.0	- 10	-	Ė	0.00			- 0.0	-		- 0.0	- 10	#			+:	1	1:		0.00		#	1		-	-						#		$\pm$
Sianar et al Average Min	0.00	n/a 0	0.00 4.32	0.00	8.56	0.00	n/a	0.00	nla	n/a 0.0	0 n/a	n/a	n/a	0.00	n/a	nia	n/a 0.0	nla ola	0.65	n/a 0.0	0.6			n/s	a nia			n/a	0.00	n/a n	a n/a		n/a	n/a	n/a	n/a	n/a		n/a	nla		n/a	2.35
Max	0.00	n/a (	0.00 0.00	0.00	14.00	0.00	n/a	0.00	nla nla	n/a 0.0	00 n/a 10 n/a	n/a	n/a n/a	0.00	n/a n/a	n/a	n/a 0.0	n la	1.96	n/a 0.0	0.6	95 n/a 95 n/a		n/i	a nia	0.14	n/a	n/a n/a	0.00	n/a n	a n/a	n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a		n/a n/a	nla nla	n/a n	n/a n/a	2.90

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CYP2D6	Allele	Freque	ncie

Authors	*1xN	*2xN	*4xN	*6xN	*10xN	*17xN	*29xN	*35xN	*36xN	'41xN	*45xN	Undefined/ other duplications	All duplications combined xN	*36+*10	*36+*10x2	*36x2+*10	*36x3+*10	"76+"2 ("13+"2)	*77+*2 (*13+*2)	*78+*2 (*13+*2)	Other rearrange ments
Gaedigk et al Man et al	-		-	-	0.00	-		-	0.00		-			26.32			-	-			-
Ji et al Ismail et al	-		-	-	0.20	-		-	÷		-	1.10 0.42	1.30 0.42				-	-			-
Cai et al Sheng et al	0.41	0.00	0.00	0.00	0.28	0.00	0.00	0.00	-	0.00	0.00	0.00	0.69	-			- 1	-			5.51
Myrand et al Qin et al												2.00	2.00			-	-				
Qin et al Qin et al	-	-	-	-	-	-	-	-	-	-	-	- 1	- :	-	-	- 1	-		-		- 1
Zhou et al Kim et al	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	-	- 1	- 1	-	-		-	
Man et al Zuo et al	-	-	-	-	-	-	-	-	-	-	-		- :	-	-	-	-		-	-	-
Zuo et al Zuo et al	-	-	-	-	-	-	-	-	-	-	-		- :	-	-	- 1	-	-	-	-	-
Zuo et al Qin et al	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yin et al Yin et al	-	-	-	-	-	-	-	-	-	-	-	-	- :	-	-	-	-		-	-	-
Yin et al Jin et al	-	-	-	-	-	-	-	-	-	-	-		- :	-			-:-	-	-	-	-
Sistonen et al	0.40	0.60	0.00	-	1.00	÷	-	-	-	0.20	-	- :	2.20	-	-		-	-	-	-	-
Chida et al Tateishi et al	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kubota et al Nishida et al	0.50	0.50		-	-	Ė		-			-		1.00	-				Ė	Ė		-
Chida et al	0.30	0.30			Ė	Ė			0.70						- 1	- 1	-		Ė		
Ishiguro et al Yamazaki et al	0.30	0.30		-	0.60	-		-	-	-	-		1.20	-			- 1	-			
Soyama et al Ebisawa et al	-	-	-	-	-	-	-	-	-	- 1	-	- 1	- :	-				-		-	- 1
ikenaga et al Myrand et al	-	-	-	-	-	-	-	-	-	-	-	6.00	6.00	-	- 1	- 1	-	-		-	
Myrand et al Myrand et al	-	-	-	-	-	-	-	-	-	-	-	2.90 4.90	2.90 4.90	-	-	-	-		-	-	-
Hosono et al Kivotani et al	0.50	0.40	0.00	0.00	0.60	0.00	0.00	0.00	0.50	0.00	0.00	0.00	2.00 1.02	24.20 32.65	0.20	1.30					
Man et al Kiyotani et al	-	-	-		-				0.51				0.51								
Lee et al Myrand et al	0.13	0.50	0.00	-	0.50							0.25 2.00	1.38								-
Lee et al Kim et al	0.07	0.99	0.00	-	0.40	-	-	-	-	0.00	-	0.00	1.46		-		-	-	-	-	-
Man et al Kim et al	-	-	-	-	-	-	-	-	-	-	-	1.03	1.03	22,45	-	1,02	102	-	-	-	-
Suwannasri et al				-	-		Ė	-	Ė		Ė	0.35	0.35	-	-	1.00		Ė	Ë	Ë	Ė
Veiga et al Kim et al	-	-	-		-	-		-		-		0.00	- 0.00						-		
Love et al							-					-									
Average Min	0.28	0.38	0.00	0.00	0.37	0.00	0.00	0.00	0.29	0.03	0.00	1.23 0.00	1.43 0.00	26.41 22.45	0.10	0.77	1.02	n/a n/a	n/a n/a	n/a n/a	5.51 5.51
Max Daly et al	0.51	0.99	0.00	0.00	1.00	0.00	0.00	0.00	0.70	0.20	0.00	6.00	6.00	32.65	0.20	1.30	1.02	n/a	n/a	n/a	5.51
Marez et al Sachse et al	0.51	1.34	0.08	-	-	-	-	-	-	-	-	- 1	1.93	-	- 1	- 1	-	-		-	
Leathart et al Leathart et al	-	-	-	-	-	-	-	-	-	-	-	2.30	2.30	-	- 1	- 1	-	-		-	
Griese et al Gaedigk et al	0.20	0.70		-	-	-	-	-	-	-	-	1.50	1.50	-	-	-	-		-	-	-
Aynacioglu et al Wan et al	3.59	1.98	0.25	-	-	-	-	-	-	-	-	1.40	5.82 1.40	-	-	-	-		-	-	-
Tamminga et al Molden et al	-	-	-	-	-	-	-	-	-	-	-		- :	-	-	- 1	-	-	-	-	-
Niewinski et al Galkovitch et al	1.72	0.52	0.00	-	-	-	-	-	-	-	-		- :	-	-	- 1	-	-	-	-	-
Bozina et al Gaedigk et al	-	-	-	-	-	-	-	-	-	-	-	4.00	4.00	-	-	-		-	-	-	
Raimundo et al Scordo et al	0.00	1.10	-	-	-	-	-	0.16	-	-	-	4.20	1.26 4.20	-	-	-	-	-	-	-	-
Fuseli et al Fuseli et al	0.00	0.98 2.08	0.00	-	-	-	-	-	-	-	-	-:-	0.98 2.08	-:-	-:-	-:-	-:-	-	-	-	-
Zachrisson et al Zachrisson et al	-:-	-	-	-	-	-	-	-	-	-	-	-:-	- :	-:-	-:-	-:-	-:-	-	-	-	-
Gaedigk et al Aydin et al	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Halling et al Pedersen et al	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Li et al Toscano et al	-	-		-	-	Ė		-			-			-				Ė	Ė		-
Gaedigk et al	1.90	1.90	0.47		0.00	Ė			0.00				4.27	0.00	- 1	- 1	-		Ė		
Menoyo et al Rasmussen et al	0.20	1.80	0.00	1	Ė		- 1	Ė		0.20	Ė	0.00	2.20		- 1	- 1	-		Ė		
Gaedigk et al Gaedigk et al	0.00	0.76	0.38	0.00	0.00	0.00	0.00	0.19	Ė	0.00	0.00	0.00	1.33		-	- 1	-	Ė		-	
Sistonen et al Scott et al	0.60 2.20	1.30 5.80	0.60	-	0.30	Ė	-		Ė	0.00	-		2.80 8.80		-		-			1	-
Arvanitidis et al Rasmussen et al	0.00	0.80	0.00	-		-	-	-	Ė	0.00	-	7.42 0.00	7.42 0.80		-		-				-
Koseler et al Crescenti et al		-	-	-	-	Ė	-		1	-		- :	- :	-	-	-	-	Ė	-	-	-
Crescenti et al Crescenti et al	-	-	-	-	-	Ė	-	-	1		-	- :	- :	-	-	-	-	-	-	-	-
Gaedigk et al Myrand et al	0.29	0.58	0.43	Ė	0.00	0.00	Ė		Ė	0.14	0.00	0.00 4.20	1.44 4.20		-		-			E	L:
Gjerde et al Buzková	E		<u> </u>	<u> </u>		Ŀ	E	E	E		E	1.66	1.66 3.10							E	LΞ
de Leon et al Gaedigk et al	0.70	0.50	-	0.00	0.00			0.00		0.10		0.00	1.40						E		
Rebsamen et al Correia et al	0.60	1.50	0.30	-	0.00	0.00	-	0.00	-	0.00		6.10	2.40		-		-	-	-	-	-
Man et al Gaedigk et al			-	-		-	-		-				- :		-		-	-	-	-	-
Gaedigk et al Gaedigk et al Femandez-Santander et al		Ė	Ė	Ė	Ė	Ė	Ė	Ė	Ė	Ė	Ė		-		=		-	Ė	Ė	Ė	Ė
Fernandez-Santander et al	÷	-		-	Ė	Ė	-	Ė	Ė		Ė		-		-			Ė	Ė	Ė	Ė
De Luca et al			Ė	-	Ė	Ė	-	Ė	Ė	Ė	Ė	1.50	1.50	Ė	-	-	-	Ė	Ė		-
Vangsted Zachrisson et al	1.30	0.80	0.60	-		Ė	-		Ė			1.50	2.70		-	- 1	-	Ė		-	Ė
Zachrisson et al Wesmiller et al	1.00	1.80	0.60	-	- 1	-	-	-	-	- 1	- 1	- 1	3.40			-		-	- 1	-	1
Serin et al Håber et al	0	0	0	- 1	0	0	1	0.9	-	0	-	- 1	4.00 0.90	- 1	- 1		- 1	-	1	- 1	1
THEORY ST. III	2.22	0.56	-	- 1	-	-	1	-	-	-	-	- 1	2.78	- 1	- 1		- 1	-	1	- 1	- 1
Zafra-Ceres et al Fernández Santander et al			1.00			L	<u> </u>	-	<u> </u>	<u> </u>	-	<u> </u>	1.50	_	-	-			<u> </u>	<u> </u>	-
Zafra-Ceres et al Fernández Santander et al Zachrisson et al	0.50	0.00 1.40											1.80								
Zafra-Ceres et al Fernández Santander et al Zachrisson et al Rideg et al Beer et al Sahin et al	0.50 0.40 0.50	1.40 1.10	0.00	0.00	0.00	0.00	0.00			0.00	0.00		1.80								
Zafra-Ceres et al Fernández, Santander et al Zachrisson et al Rideg et al Beer et al	0.40	1.40		-	-	0.00	-	0.21	0.00	-	0.00	2.90	1.80 1.60 - 2.90 2.79	0.00	nia	n/a		n/a	nla	n/a	nla

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							N																														
Authors	Year	PMID	Major ethnicity	Population	Add'i population info	Subject type	Subjects	.,	*2				.,	**			*42	*42	113	-46	***	.47		*20	*21	*** ***	2 .24	* *25	*26	*27	*20	*29 **	20 +24		*22	*24	*25
McLellan et al	1997	9241658	Middle East	Saud Arabians	Add i population titlo	healthy subjects	101	89.50	-	. 35	100	-	-	- U	3.00			10 10	14	- 13		3.00	, ,,	10												_~	- 55
Fuseli et al	2004	15340360	Middle East	Syrians		healthy subjects	E1		30.39			0.00	-		0.00	-	- +	-		+ -		0.00		<del>                                     </del>	-		+	_	+	-			-	+	+		_
Luo et al	2004	15651900	Middle East	Bedouins	Israel	healthy subjects	50	49.00		0.00 4.0		0.30	-		2.00	-	- +	-		+ -		3.00		<del>                                     </del>	-		+	_	+	-			-	+	+		_
Sistonen et al	2007	17301689	Middle East	Middle-Easterns	disci	Human Genome Diversity Panels	148			0.00 4.0	0 2.70	1.40	-		00 0.70	-	- +	-		+ -	-	2.00		<del>                                     </del>	-		+	_	+	-		0.00	-	+	+		_
Kouhi et al	2009	19715474	Middle East	Iranian	Eastern Azerbaijan	healthy subjects	100		32.00	- 12.5		1.40	<del> </del>		- 9.00	+:-		-	<del></del>	<del>                                     </del>		0.00		<del>                                     </del>		<del>:                                    </del>		+:	+	$\rightarrow$		0.00	<del></del>	+:	+	-	-
Qumsieh et al	2011	22216145	Middle East	Emiratis	United Arab Emirates	majority psychiatric patients	302	39.1	12.2	0 9		0	0	0	0 3.3	0	0		- 0		-	2.5 0	0	0	0	0 0	. 0	0	0	0.7	0	1.6 F	0 0	0	0	1	2
Hashemi-Soteh et al	2011	21631295	Middle East	Iranian	Mazandaran	healthy subjects	100	90.00	-	0.50 9.0	0 -	0.50													-						-	-			1 . 1		-
Average								58.04	21.72	0.10 7.8	0 2.34	0.72	0.00	0.00	.00 3.49	0.00	0.00	n/a	n/a 0.00	n/a	n/a	1.58 0.0	0.00	0.00	0.00	0.00 0.0	0.00	0.00	0.00	0.70	0.00	0.80 0.0	00.00	0.00	0.00	1.00	2.00
Min								35.10	9.00	0.00 3.5	0.98	0.00	n/a	n/a C	.00 0.70	nla	n/a	n/a	n/a n/a	n/a	n/a	0.00 nl	n/a	n/a	nla	n/a n/a	a n/a	n/a	n/a	n/a	n/a	0.00 n	e/a n/a	n/a	n/a	n/a	nla
Max								90.00	32.00	0.50 12.5	0 3.70	1.40	n/a	n/a C	.00 9.00	nla	n/a	n/a	n/a n/a	n/a	n/a	3.00 nl	n/a	n/a	nla	n/a n/a	a n/a	n/a	n/a	n/a	n/a	1.60 n	e/a n/a	n/a	n/a	n/a	nla
Griese et al	2001	11207032	Oceania	Australian Aborigines	NW Australia	healthy subjects	239	85.80	3.80	0.00 1.5	0 7.50	0.00	0.00	0.00	.00 0.80			- (	.40 -		0.40	0.20 -			-					$\overline{}$	-	-			1 . 1		-
Sistonen et al	2007	17301689	Oceania	Oceanians		Human Genome Diversity Panels	39	71.80	0.00	0.00 0.0	0 1.30	0.00		. 0	.00 2.60							0.00 -			-						- 1	0.00			1 . 1		-
von Ahsen et al	2010	21532842	Oceania	Papua New Guinears	Kunjingini	healthy subjects	88	63.00	0.00	0.00 0.0	0 3.00	0.00	0.00	0.00	0.00	0.00			- 0.00	0.00		0.00 -	0.00	0.00	-			0.00	0.00		- 1	0.00 0.0	0.00	1 -	1 . 1	1	0.00
von Ahsen et al	2010	21532842	Oceania	Papua New Guinears	Alexishafen	healthy subjects	84	60.00	1.00	0.00 3.0	0 8.00	0.00	0.00	0.00	.00 3.00	0.00			- 0.00	0.00		0.00 -	0.00	0.00	-			0.00	0.00		- 1	0.00 0.0	10.0	1 -	1 . 1	1	0.00
Average								70.15	1.20	0.00 1.1	3 4.95	0.00	0.00	0.00	1.60	0.00	n/a	n/a C	1.40 0.00	0.00	0.40	0.05 nl	0.00	0.00	nla	n/a n/a	a nia	0.00	0.00	n/a	n/a	0.00 0.0	20.0	n/a	n/a	n/a	0.00
Min								60.00	0.00	0.00 0.0	0 1.30	0.00	0.00	0.00	0.00	0.00	n/a	n/a C	1.40 0.00	0.00	0.40	0.00 n/s	0.00	0.00	nla	n/a n/a	a n/a	0.00	0.00	n/a	n/a /	0.00 0.0	.00 0.00	) n/a	n/a	n/a /	0.00
Max								85.80		0.00 3.0		0.00	0.00	0.00	.00 3.00	0.00	n/a	n/a C	1.40 0.00	0.00	0.40	0.20 nl	0.00	0.00	nla	n/a n/a	a n/a	0.00	0.00	n/a	n/a /	0.00 0.0	.00 0.00	) n/a	n/a	n/a /	0.00
Ismail & The	2001	11758642	South/Central Asia	Indians	living in Malaysia	healthy subjects	83	69.00		0.00 8.0					.00 15.00	-	-	-			-	1.00 -			-												-
Teh et al	2001	11422605	South/Central Asia	Malays	Kuala Lumpur	healthy subjects	107	37.90		0.00 2.8				- 3	30 49.50	-	-	-			-	0.50 -			-												-
Adithan et al	2003	12942225	South/Central Asia	Tamil		healthy subjects	106	72.20		0.00 6.6	0.90			-	- 20.30	-	-	-			-				-												-
Naveen et al	2006	16880622	South/Central Asia	Southern Indians	Four Southern States	healthy subjects	447		34.80					-	- 10.20		-	-	- 0.00			0.00 -			-												-
Sistonen et al	2007	17301689	Central/South Asians	Central/South Asians		Human Genome Diversity Panels	210	43.30	29.00	0.00 8.1	0 3.80	0.00		. 0	.00 3.80	-	- 1	-			-	0.00			-							0.20 -					-
Average								53.70	31.90	0.00 6.5	6 2.54	0.00	n/a	n/a 1	.43 19.76	nla	n/a	n/a	n/a 0.00	n/a	n/a	0.38 n/	n/a	n/a	nla	n/a n/a	a nia	/ n/a	n/a	n/a	n/a /	0.20 n°	/a n/a	n/a	n/a	n/a	nla
Min								37.90	29.00	0.00 2.8	0.90	0.00	n/a	n/a 0	.00 3.80	nla	n/a	n/a	n/a 0.00		n/a	0.00 n/s	n/a	n/a	nla	n/a n/a	a n/a	/ n/a	n/a	n/a	n/a /	0.20 n°	/a n/a	n/a	n/a	n/a	nla
Max								72.20	34.80	0.00 8.1	0 5.10	0.00	n/a	n/a 3	30 49.50	nla	n/a	n/a	n/a 0.00	n/a	n/a	1.00 n/	n/a	n/a	nla	n/a n/a	a n/a	a n/a	n/a	n/a	n/a (	0.20 n/	n/a n/a	n/a	n/a	n/a	nla
Gaedigk et al	2010	20017671	Europe+Africa	North Americans+Europeans		healthy subjects+patients	>1,000	-	-					-		-	-	- 0	.00 -		-				-												-
Gaedigk et al	2010	21833166	Europe+Africa	North Americans+African Americans		healthy subjects+patients	>1,000	-	-					-		-	-		0.6		-				-												-
Skierka et al		22676198	not specified			Mayo Genotyping service	>10,000	-	-		-	-	-			<0.06	-			-	-		-						-		-				$\perp$		_
Gaedigk et al	2012	22111604	African	African American		healthy subjects	>500	-	-		-	-	-	-		-	-	-			-			-	-						-			-		-	-

created by A. Guedgil, PID 7

Authors	*26	*37	*10	*29	*40	-41	*42		-44	*45	***	*45 or	*47	-48	***	*60	-61	*52	*52	-54	•==	*564/5	167	*50	-60	*60	161	*62		*46	*66	167	*60	*70	*74	172	*74	*79	*00	*92	*94	*05	*00	*100	*101	*102	*103	****		Undefined/
McLellan et al	- 30	- 57	~		-40	71	-74	-72	- 77	70	-~	1 70	7/	-~	1 70	- 50			- 55	-	- 55	- SURVIN		- 30	- 55		- "	- 05		- 00	- 00	- 0,	- 03	,,,		-/-	- / -		- 00	- 02	- 0-7	- 03		100	101	102	103	-104	100	Oliver
Fuseli et al		T:	<del></del>	<del> </del>	-		-	-	<del></del>	<del> </del>	+:	<del>                                     </del>	<b>—</b>	<del></del>	<del>                                     </del>	<b>—</b> :	<del></del>	<del>                                     </del>	T :	<del>                                     </del>	<del>+ :</del>	T :	+ :	<del>                                     </del>	+:	+:	T:		<del> </del>	-		-			-	-	-	<u> </u>	-	<u> </u>		<u> </u>	-	$\overline{}$	-	<del></del>	$\rightarrow$	$\overline{}$	$\rightarrow$	
Luo et al					.	29.00						٠.			٠.					٠.					-	-	٠.																	$\overline{}$						
Sistonen et al	-			0.00	.	16.90	-	-			-		-	-					-			-	-		-	-		-		-		-			-	-		-	-			-	T-			-	-	- 1	-	-
Kouhi et al	-	-	-		-			-			-		-			-			-		-	-	-		-	-					-	-			-	-	-	-	-	-		-		$\overline{}$		-	-	-	-	-
Qumsieh et al	0	0	0	4	0	15.2	0	0.3	0	0	0.3		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	-		0	0	0	0	0		-	0						0.33	0.33	0.33	0.66	-
Hashemi-Soteh et al			-		- 1	- 1	-	-			-			-	L -	-							-							-	-	-			-	-	-		-			-	1 -			-			-	-
Average	0.00	0.00	0.00	2.00	0.00	20.37	0.00	0.30	0.00	0.00	0.30	n/a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	n/a	n/a	n/a	0.00	0.00	0.00	0.00	0.00	n/a	nla	0.00	n/a	n/a	n/a			0.33	0.33	0.33	0.66	n/a
Min	n/a	n/a	n/a	0.00	n/a	15.20	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a	n/a	n/a	n/a	nla	n/a	nla	n/a	nla	n/a			n/a	n/a	n/a	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	nla	n/a	n/a			0.33	0.33	0.33	0.66	n/a
Max	n/a	n/a	n/a	4.00	n/a	29.00	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	nla	n/a			n/a	n/a	n/a	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a			0.33	0.33	0.33	0.66	n/a
Griese et al			-		- 1	- 1	-	-			-			-	L -	-							-							-	-	-			-	-	-		-			-	1 -			-			-	-
Sistonen et al			-	0.00	- 1	0.00	-	-			-			-	l -	-							-							-	-	-			-	-	-		-			-	1 -			-			-	-
von Ahsen et al	0.00		-		0.00	0.00	-	-			-			-	l -	-							-							-	-	-			-	-	-		-			-	1 -			-			-	24.00
von Ahsen et al	0.00		-		0.00	0.00	-	-			-				L -	-							-							-	-	-			-	-	-		-			-	1 -			-			-	12.00
Average	0.00		n/a	0.00	0.00	0.00	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	nla	n/a			n/a	n/a	n/a	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a			n/a	nla	n/a	n/a	18.00
Min	0.00	n/a	n/a	0.00	0.00	0.00	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	nla	n/a			n/a	n/a	n/a	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a			n/a	nla	n/a	n/a	12.00
Max	0.00	n/a	n/a	0.00	0.00	0.00	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	nla	n/a			n/a	n/a	n/a	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a			n/a	nla	n/a	n/a	24.00
Ismail & The			-		- 1	- 1	-	-			-			-	L -	-							-							-	-	-			-	-	-		-			-	1 -			-			-	-
Teh et al			-		- 1	- 1	-	-			-			-	L -	-							-							-	-	-			-	-	-		-			-	1 -			-			-	-
Adithan et al			-		- 1	- 1	-	-			-			-	L -	-							-							-	-	-			-	-	-		-			-	1 -			-			-	-
Naveen et al			-		- 1	- 1	-	-			-			-	l -	-							-							-	-	-			-	-	-		-			-	1 -			-			-	-
Sistonen et al			-	0.20	- 1	10.50	-	-			-			-	L -	-							-							-	-	-			-	-	-		-			-	1 -			-			-	-
Average	n/a	n/a	n/a	0.20	n/a	10.50	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	nla	n/a			n/a	n/a	n/a	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a			n/a	nla	n/a	n/a	n/a
Min	n/a	n/a	n/a	0.20	n/a	10.50	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	nla	n/a			n/a	n/a	n/a	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a			n/a	nla	n/a	n/a	n/a
Max	n/a	n/a	n/a	0.20	n/a	10.50	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	nla	n/a			n/a	n/a	n/a	n/a	n/a	n/a	n/a	nla	n/a	n/a	nla	n/a	n/a	n/a	n/a			n/a	nla	n/a	n/a	n/a
Gaedigk et al			-		- 1	- 1	-	-			-			-	l -	-							-							-	-	-			-	-	-		-			-	1 -			-			-	
Gaedigk et al			-		- 1	- 1	-	-			-			-	L -	-							-							-	<0.6	< 0.1			-	-	-	< 0.1	<0.1			-	1 -			-			-	-
Skierka et al	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-			-	-	-	-	-	-		-		-	-	-	-			
Gaedigk et al			-		-	-		-			-		-	-	1 -	-	-	1 -		1 -	1 -		-				1 -		-		- 4		100					-	-				1 -			-	-		-	-

onated by A. Geologic, PID 8

CVP2DE	Allolo	Empuopolos

												Undefined/ other	All duplications combined					*76+*2	*77+*2	*78+*2	Other rearrange-
Authors McLellan et al	*1xN	*2xN	*4xN	*6xN	*10xN	*17xN	*29xN	*35xN	*36xN	*41xN	*45xN	duplications 10.40	XN 10.40	*36+*10	*36+*10x2	*36x2+*10	*36x3+*10	(*13+*2)	(*13+*2)	(*13+*2)	ments
Fuseli et al	3.92	3.92	0.00	-	-	-	-	-	-	-	-	10.40	7.84		-	_	-	-	-	-	_
Luo et al	3.92	3.92	0.00	-	-	-	-	-	-	-	-	2.00	2.00	-	-		-		-	-	_
Sistonen et al	3.70	3.40	0.00	-	0.00	-	-	-	<u> </u>	0.00	-	2.00	7.10	-	-		-		-	-	_
Kouhi et al	3.70	3.40	0.00		0.00	-		-	-	0.00	-	_	7.10					-	-	-	
Qumsieh et al	1.6	4.3	-	-	0.3	<u> </u>	-	-	<del></del>	-	-	-	6.20	-	0.00	12.40	-	-	-	-	-
Hashemi-Soteh et al	1.0	7.0	<u> </u>	<u> </u>	0.5	<del></del>	<u> </u>		<del></del>	-			0.20		0.00	12.40					
Average	3.07	3.87	0.00	n/a	0.15	n/a	n/a	n/a	n/a	0.00	n/a	6.20	6.71	n/a	0.00	12.40		n/a	n/a	n/a	n/a
Min	1.60	3.40	0.00	n/a	0.00	n/a	n/a	n/a	n/a	0.00	n/a	2.00	2.00	nla	n/a	n/a		n/a	n/a	n/a	n/a
Max	3.92	4.30	0.00	n/a	0.30	n/a	n/a	n/a	n/a	0.00	n/a	10.40	10.40	nla	n/a	n/a		n/a	n/a	n/a	n/a
Griese et al	-	-	-	-	-	-	-	-	-	-	-	0.00	0.00	-	-	-	-	-	-	-	
Sistonen et al	11.50	0.00	0.00	-	0.00	-	-	-	-	0.00	-	-	11.50	-	-	-	-	-	-	-	-
von Ahsen et al	11.00	-	-	-	-	-	-	-	-	-	-	-	11.00	-	-	-	-	-	-	-	-
von Ahsen et al	13.00	-	-	-	-	-	-	-	-	-	-	-	13.00	-	-	-	-	-	-	-	-
Average	11.83	0.00	0.00	n/a	n/a	n/a	n/a	n/a	n/a	nla	n/a	n/a	8.88	nla	n/a	n/a		n/a	n/a	n/a	n/a
Min	11.00	0.00	0.00	n/a	n/a	n/a	n/a	n/a	n/a	nla	n/a	n/a	0.00	nla	n/a	n/a		n/a	n/a	n/a	n/a
Max	13.00	0.00	0.00	n/a	n/a	n/a	n/a	n/a	n/a	nla	n/a	n/a	13.00	nla	n/a	n/a		n/a	n/a	n/a	n/a
Ismail & The			-			-		-	-		-	2.00	2.00			-				-	-
Teh et al		-	-			-		-	-		-	0.90	0.90			-				-	
Adithan et al		-	-			-		-	-		-					-				-	
Naveen et al		-	-			-		-	-		-					-				-	
Sistonen et al	0.50	0.50	0.00		0.00	-		-	-	0.00	-		1.00			-				-	
Average	0.50	0.50	0.00	n/a	0.00	n/a	n/a	n/a	n/a	0.00	n/a	1.45	1.30	nla	n/a	n/a		n/a	n/a	n/a	n/a
Min	0.50	0.50	0.00	n/a	0.00	n/a	n/a	n/a	n/a	0.00	n/a	0.90	0.90	nla	n/a	n/a		n/a	n/a	n/a	n/a
Max	0.50	0.50	0.00	n/a	0.00	n/a	nla	n/a	n/a	0.00	n/a	2.00	2.00	nla	n/a	n/a		n/a	n/a	n/a	n/a
Gaedigk et al	1.80	3.30	3.20	0.00	0.10	0.10	0.00	0.10	0.00	0.10	0.10	0.00	8.80	0.00		-		0.10	0.30	0.10	0.00
Gaedigk et al					-	-						-	-			-					0.30
Skierka et al	-	-	-	-	-	-	-	-	-	-	-		_	-	_	_	-	-	-	-	-
Gaedigk et al														-	-	-			-		<0.02

osaled by A Gaedge, PID 9

date	for R2	Change Note
8/13/13	Χ	corrected spelling of von Ahsen
8/16/13	Χ	added number of subjects for Yin et al. and updated year of publication
8/16/13	Χ	added number of subjects for Ebisawa et al.
8/16/13	Χ	corrected entries for *13 'revised' for all ethnicities (0 was incorrect for most)
8/17/13	Χ	corrected *76+*2 to *76+*1
8/16/13	Χ	added columns for *61, *62, *84, *85, *86, *100, *101, *36x3+*10 and *1x2+*83
8/16/13	Χ	revised/updated ethnicities and populations for Americas
8/16/13	Χ	added 5 papers (6 line entires) for East Asia
8/16/13	Χ	added 5 papers (5 line entries( for Europe
8/16/13	Χ	added 4 papers (6 line entires) for Americas
8/16/13	X	added 2 papers (2 line entries) for Africa
8/16/13	Χ	added 1 paper with 'unspecified' ethnicity and approximate frequency
8/16/13	Χ	added 1 paper with approxomate frequency
8/16/13	Χ	sorted ethnicities by 1) major ethnicity, 2) population, 3) year and 4) author
8/28/13	Χ	excluded Zihlif et al. *10 incorrectly called; corresponded with author revealing this mishap
8/29/13	Χ	correponded with Antunes; mistake in paper re some freq;
8/30/13	Χ	have not heard back from Zafra-Ceres to confirm allele freq
9/9/13	X	Added data for *1, *2 and *35 received from Ana Santander for PMID 23922954