

Supplementary Table 1. All Genomic Locations and Effects of Archaic Introgression identified after 2013.

| | | Closest putative archaic source pop | Modern populations showing evidence of introgression or association | reference |
|--------------------------------|---|-------------------------------------|---|-------------------|
| SNP linked to phenotype | | | | |
| | rs12531711, systemic lupus erthematosus, primary biliary cirrhosis | Neanderthal | | Sankararaman 2014 |
| | rs3025343, smoking behavior | Neanderthal | | Sankararaman 2014 |
| | rs7076156, rs11175593, Crohn's disease | Neanderthal | | Sankararaman 2014 |
| | rs12571093, optic disc size | Neanderthal | | Sankararaman 2014 |
| | rs1834481, interleukin-18 levels | Neanderthal | | Sankararaman 2014 |
| | rs75493593, rs75418188, rs117767867, type-2 diabetes | Neanderthal | | Sankararaman 2014 |
| | SELP, rs3917862, hypercoagulable state | Neanderthal | European | Simonti 2016 |
| | SLC35F3, rs12049593, protein-calorie malnutrition | Neanderthal | European | Simonti 2016 |
| | RHOG, STIM1, rs11030043, symptoms involving urinary system | Neanderthal | European | Simonti 2016 |
| | SLC6A11, rs901033, tobacco use disorder | Neanderthal | European | Simonti 2016 |
| | loci associated with being treated with desloratadine, a drug used to treat allergies | | European, East Asian | Steinrücken 2018 |
| | rs11564258, MUC19, Crohn's disease and inflammatory | Neanderthal | | Rinker |

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|---|-------------|----------|---------------|
| bowel disease | | | 2019 |
| reduced risk of prostate cancer (rs17632542), decreased concentration of hemoglobin (rs28387074), reduced height (rs3118914), decrease in mean corpuscular haemoglobin (rs72728264) and an increase in plasma prothrombin time (rs6013) | Neanderthal | | Skov 2020 |
| genes linked to phenotype | | | |
| EPAS1, hypoxia | Denisovan | Tibetan | Nielsen 2014 |
| SLC24A4,SPIRE2,TCF25,MC1R,TUBB3,FANCA: hair color (natural before graying) | | European | Danneman 2017 |
| RUNX2, skin color | | European | Danneman 2017 |
| BNC2, ease of skin tanning, skin color, incidence of childhood sunburn | | European | Danneman 2017 |
| ZNF536, comparative height size at age 10 years | | European | Danneman 2017 |
| GJA1, pulse rate | | European | Danneman 2017 |
| ASB1, morning or evening person (chronotype) | | European | Danneman 2017 |
| CHORDC1, skin color | | European | Danneman 2017 |
| ADAMTSL3, GOLGA6L4, impedance of leg (left and right) | | European | Danneman 2017 |
| PBLD, sitting height | | European | Danneman 2017 |
| EXOC2, hair color (natural before graying) | | European | Danneman 2017 |
| EXOC6, daytime dozing or sleeping (narcolepsy) | | European | Danneman 2017 |
| genes | | | |

| | | | | |
|--|--|-------------|---|-----------------------|
| | IL18, interleukin-18 levels | Neanderthal | | McCoy 2017 |
| | SVEP1, PLXNA2, ST5, RP1-283K11.2, UBE2H, TMEM9B, CTD-2003C8.2, PRSS45, RTN1, TRABD, TMEM9B, RP11-115J16.1, MMAB, AZIN1-AS1, TLR1, MAFB, UBE2H, CYB5A, PAPD7, RGL2, PABPN1L, LINC00693, PLEKHO1, MUC15, HSPG2, DDX60L, RP11-778H2.1, SNHG14, DNNTIP1, AC007389.3, KCNT2, TTBK1, SLC01A2 | Neanderthal | | McCoy 2017 |
| | TBX15, WARS2 | Denisovan | Greenlandic Inuit, East Asians, Native Americans | Racimo 2017 |
| | ANKRD27, MED15, PDGFRB, TGFBR2, IGF1, IGFBP2, IGFBP3, CXCR4, KLF3, PRRX1 | | | Silvert 2019 |
| | genes highly expressed in T-cells, including CXCR4,IL7R,IL10RA,NFKBIA,PTPRC | | | Silvert 2019 |
| | regulatory alleles associated with HDHD5 (aka CECR5) | Neanderthal | Europeans | Rinker 2019 |
| | phenotypes | | | |
| | phenotypes from electronic health records: actinic keratosis, mood disorders, depression, obesity, seborrheic keratosis, overweight, acute upper respiratory infections, coronary atherosclerosis | Neanderthal | European | Simonti 2016 |
| | phenotype group: neurologic | Neanderthal | European | Simonti 2016 |
| | facial morphology, body mass index, sleep, and metabolite levels in smokers | Neanderthal | | Rinker 2019 |
| | GO term/category | | | |
| | keratin filament | Neanderthal | European, East Asian | Sankararam an 2014 |
| | phospholipid transporter activity, trace-amine receptor activity | Denisovan | Oceanian | Sankararam an 2016 |

| | | | | |
|--|--|-------------|---|-------------------|
| | keratin filament | Neanderthal | American, Central/South/East Asian, West Eurasian | Sankararaman 2016 |
| | cellular response to cadmium ion, cellular response to inorganic substance, cellular response to metal ion, cellular response to zinc ion | Neanderthal | Central, South, East Asian | Sankararaman 2016 |
| | response to cadmium ion, cadmium ion binding | Neanderthal | South, East Asian | Sankararaman 2016 |
| | chemokine-mediated signaling pathway, C-C chemokine receptor activity, chemokine receptor activity, cytokine receptor activity, G-protein coupled chemoattractant receptor activity | Neanderthal | South Asian | Sankararaman 2016 |
| | cytokine production involved in inflammatory response, regulation of cytokine production involved in inflammatory response, extracellular region | Neanderthal | West Eurasian | Sankararaman 2016 |
| | glycosphingolipid metabolic process, intracellular, intracellular membrane-bounded organelle, intracellular organelle, intracellular part, invadopodium, membrane-bounded organelle, organelle | Neanderthal | Oceanian | Sankararaman 2016 |
| | intermediate filament, intermediate filament cytoskeleton | Neanderthal | American, Central Asian | Sankararaman 2016 |
| | keratin, sensory perception (particularly olfaction) | | | Steinrücken 2018 |
| | regulation of cell motility, insulin-like growth factor binding protein complex (for archaic alleles associated with genes expressed in adipose tissue) | | | Silvert 2019 |