**SUPPLEMENTARY TABLE 4A**. Logistic regression for DA+ vs. AW, with each SNP separately,

adjusted for age, smoking and length of exposure (HDI exposure only).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | P-values | | |  | SNP effect | | |
| SNP |  | Age | Smoking | Length of  exposure |  | OR | 95% CI | p-value |
| NAT1rs11777998 |  | <0.001 | 0.020 | <0.001 |  | 1.04 | (0.38, 2.83) | 0.937 |
| NAT1rs13253389 |  | <0.001 | 0.020 | <0.001 |  | 0.76 | (0.30, 1.92) | 0.558 |
| NAT1rs4298522 |  | <0.001 | 0.020 | <0.001 |  | 1.20 | (0.49, 2.90) | 0.691 |
| NAT1rs4921580 |  | <0.001 | 0.020 | <0.001 |  | 0.76 | (0.27, 2.20) | 0.618 |
| NAT1rs4921880 |  | <0.001 | 0.020 | <0.001 |  | 0.79 | (0.32, 1.97) | 0.616 |
| NAT1rs7003890 |  | <0.001 | 0.018 | <0.001 |  | 1.38 | (0.52, 3.65) | 0.523 |
| NAT1rs7017402 |  | <0.001 | 0.022 | <0.001 |  | 0.94 | (0.35, 2.56) | 0.906 |
| NAT1rs8190837 |  | <0.001 | 0.021 | <0.001 |  | 1.82 | (0.51, 6.51) | 0.360 |
| NAT1rs8190845 |  | <0.001 | 0.021 | <0.001 |  | 0.92 | (0.31, 2.68) | 0.873 |
| NAT1rs9325827 |  | <0.001 | 0.020 | <0.001 |  | 0.87 | (0.33, 2.28) | 0.771 |
| NAT2rs13277605 |  | <0.001 | 0.037 | <0.001 |  | 1.78 | (0.59, 5.40) | 0.305 |
| NAT2rs1801280 |  | <0.001 | 0.018 | <0.001 |  | 0.68 | (0.26, 1.77) | 0.428 |
| NAT2rs1961456 |  | <0.001 | 0.021 | <0.001 |  | 0.87 | (0.35, 2.15) | 0.758 |
| NAT2rs2410556 |  | <0.001 | 0.015 | <0.001 |  | 5.80 | (2.23, 15.08) | **<0.001** |
| NAT2rs4271002 |  | 0.005 | 0.025 | <0.001 |  | 7.06 | (2.68, 18.64) | **<0.001** |
| NAT2rs4646246 |  | <0.001 | 0.028 | <0.001 |  | 1.37 | (0.50, 3.75) | 0.544 |
| NAT2rs1799930 |  | <0.001 | 0.023 | <0.001 |  | 0.84 | (0.34, 2.10) | 0.713 |
| NAT2rs1799931 |  | <0.001 | 0.020 | <0.001 |  | 0.80 | (0.06, 10.15) | 0.865 |

**Bold** indicates SNP p-value less than 0.05.

**SUPPLEMENTARY TABLE 4B.** Logistic regression for DA+ vs. DA-, with each SNP separately, adjusted for age, smoking, type of exposure and length of exposure.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | P-values | | | |  | SNP effect | | |
| SNP |  | Age | Smoking | Type of  exposure | Length of  exposure |  | OR | 95% CI | p-value |
| NAT1rs11777998 |  | 0.036 | 0.014 | 0.002 | 0.424 |  | 1.29 | (0.64, 2.59) | 0.476 |
| NAT1rs13253389 |  | 0.029 | 0.011 | 0.001 | 0.324 |  | 0.97 | (0.54, 1.75) | 0.916 |
| NAT1rs4298522 |  | 0.031 | 0.009 | 0.001 | 0.395 |  | 0.64 | (0.35, 1.17) | 0.149 |
| NAT1rs4921580 |  | 0.023 | 0.012 | 0.002 | 0.306 |  | 0.88 | (0.43, 1.78) | 0.712 |
| NAT1rs4921880 |  | 0.023 | 0.013 | 0.002 | 0.346 |  | 1.30 | (0.71, 2.38) | 0.391 |
| NAT1rs7003890 |  | 0.023 | 0.009 | 0.001 | 0.300 |  | 0.82 | (0.44, 1.54) | 0.534 |
| NAT1rs7017402 |  | 0.021 | 0.011 | 0.002 | 0.303 |  | 1.13 | (0.57, 2.26) | 0.724 |
| NAT1rs8190837 |  | 0.032 | 0.014 | 0.001 | 0.394 |  | 1.89 | (0.77, 4.64) | 0.162 |
| NAT1rs8190845 |  | 0.031 | 0.011 | <0.001 | 0.408 |  | 1.02 | (0.51, 2.07) | 0.944 |
| NAT1rs9325827 |  | 0.028 | 0.011 | 0.001 | 0.334 |  | 0.99 | (0.52, 1.90) | 0.977 |
| NAT2rs13277605 |  | 0.017 | 0.019 | 0.001 | 0.305 |  | 1.85 | (0.94, 3.63) | 0.073 |
| NAT2rs1801280 |  | 0.035 | 0.010 | <0.001 | 0.372 |  | 0.65 | (0.33, 1.30) | 0.224 |
| NAT2rs1961456 |  | 0.020 | 0.013 | <0.001 | 0.281 |  | 0.62 | (0.34, 1.14) | 0.121 |
| NAT2rs2410556 |  | 0.032 | 0.032 | 0.001 | 0.228 |  | 2.37 | (1.24, 4.53) | **0.009** |
| NAT2rs4271002 |  | 0.036 | 0.038 | 0.002 | 0.251 |  | 2.60 | (1.38, 4.88) | **0.003** |
| NAT2rs4646246 |  | 0.031 | 0.009 | <0.001 | 0.371 |  | 0.59 | (0.31, 1.14) | 0.116 |
| NAT2rs1799930 |  | 0.035 | 0.012 | 0.001 | 0.341 |  | 0.68 | (0.38, 1.23) | 0.204 |
| NAT2rs1799931 |  | 0.043 | 0.012 | <0.001 | 0.442 |  | 0.44 | (0.10, 1.94) | 0.276 |

**Bold** indicates SNP p-value less than 0.05.