**Table S2.** Results of univariate screening of variants vs toxicity

| SNP rsID | Missing Genotypes N= | P1 OR (95% CI) | Fisher's Exact Test[1] P= | P2 Somers' D (95% CI) | Exact Trend Test P= | OR (95% CI) | Fisher's Exact Test[2] P= |
|---|---|---|---|---|---|---|---|
| *Thromocytopenia* | | | | | | | |
| rs1051741 | | | **0.001** | | **0.001** | 16.8 (2.21, 131) | **0.002** |
| rs1046428 | | | **0.001** | | **0.002** | 19.9 (2.16, 928) | **0.002** |
| rs6783962 | | | **0.004** | -0.13 (-0.23, -0.04) | **0.003** | | |
| rs7294 | | | **0.006** | 0.11 (0.01, 0.21) | **0.007** | | |
| rs1056522 | | | 0.021 | -0.13 (-0.21, -0.04) | **0.008** | | |
| rs2227291 | | | 0.039 | 0.09 (0.005, 0.18) | **0.010** | | |
| rs894469 | | | 0.009 | | 0.009 | | 0.026 |
| rs3093105 | 18 | | 0.048 | | 0.025 | | 0.027 |
| rs2297810 | | | 0.031 | | 0.062 | | 0.040 |
| rs17878544 | | | 0.024 | | 0.020 | | 0.091 |
| rs10002894 | | | 0.017 | | 0.013 | | |
| rs5952696 | | | 0.018 | | 0.014 | | |
| rs7879356 | | | 0.018 | | 0.014 | | |
| rs3856650 | | | 0.040 | | 0.014 | | |
| rs6324 | | | 0.016 | | 0.018 | | |
| rs2359612 | | | 0.041 | | 0.018 | | |
| rs1883322 | | | 0.046 | | 0.021 | | |
| rs7436962 | | | 0.046 | | 0.024 | | |
| rs4643786 | | | 0.028 | | 0.025 | | |
| rs6830685 | | | 0.046 | | 0.031 | | |
| rs3742106 | | | 0.050 | | 0.033 | | |
| rs2468110 | | | 0.026 | | 0.035 | | |

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|---|---|---|---|---|---|---|
| rs11764079 | | 0.041 | | 0.054 | | |
| rs11770903 | | 0.041 | | 0.054 | | |
| rs2295475 | | 0.039 | | 0.170 | | |
| rs7515157 | | 0.035 | | 0.240 | | |
| rs1799735 | | 0.021 | | 0.250 | | |
| rs4418728 | | 0.044 | | 0.440 | | |
| rs4986993 | | 0.027 | | 0.590 | | |
| rs3755740 | | 0.040 | | 0.660 | | |
| rs4803381 | | 0.032 | | 0.730 | | |
| rs11231825 | | 0.035 | | 0.820 | | |
| rs4679028 | | 0.014 | | | | |
| rs67437265 | | 0.023 | | | | |
| rs1051752 | | 0.037 | | | | |
| rs1801030 | | 0.042 | | | | |
| rs72551385 | | 0.042 | | | | |
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| *Neutropenia* | | | | | | |
| rs2043449 | | **0.010** | | 0.020 | 9.52 (1.59, 66.1) | **0.005** |
| rs7747555 | | **0.003** | | **0.003** | 9.33 (1.42, 57.6) | **0.009** |
| rs6577 | | **0.004** | 0.20 ( 0.04, 0.36) | **0.002** | | |
| rs2180314 | | **0.005** | -0.13 (-0.23, -0.04) | **0.002** | | |
| rs1695 | | **0.004** | 0.13 (0.02, 0.24) | **0.003** | | |
| rs2277448 | | 0.012 | -0.13 (-0.23, -0.04) | **0.004** | | |
| rs4715354 | | 0.019 | -0.12 (-0.21, -0.02) | **0.009** | | |
| rs910795 | | 0.019 | 0.13 (-0.01, 0.27) | **0.010** | | |
| rs4715333 | | 0.020 | -0.14 (-0.24, -0.04) | **0.010** | | |
| rs1645691 | 18.2 (1.82, 164) | **0.006** | | | | |
| rs1801030 | 9.44 (1.44, 58.3) | **0.009** | | | | |
| rs2341968 | 13.5 (1.48, 103) | **0.010** | | | | |

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|---|---|---|---|
| rs9474342 | 0.011 | 0.063 | 0.015 |
| rs11211402 | 0.029 | 0.027 | 0.023 |
| rs1517618 | 0.015 | 0.012 | 0.024 |
| rs1061040 | 0.012 | **0.010** | 0.029 |
| rs2397118 | 0.017 | 0.017 | 0.035 |
| rs1565814 | 0.039 | 0.069 | 0.039 |
| rs1645694 | 0.038 | 0.033 | 0.045 |
| rs7081 | 0.031 | 0.027 | 0.089 |
| rs2738792 | 0.034 | 0.023 | 0.120 |
| rs5085 | 0.043 | 0.054 | 0.430 |
| rs1137115 | 0.002 | 0.740 | 0.470 |
| rs1046428 | 0.020 | 0.081 | 0.680 |
| rs2020869 | 0.021 | 0.150 | 0.680 |
| rs11550605 | 0.037 | 1.000 | 0.680 |
| rs10249788 | 0.004 | 0.750 | 0.710 |
| rs4715332 | 0.028 | 0.019 | |
| rs818202 | 0.043 | 0.022 | |
| rs11684227 | 0.048 | 0.027 | |
| rs11764079 | 0.017 | 0.035 | |
| rs11770903 | 0.017 | 0.035 | |
| rs7957203 | 0.001 | 0.180 | |
| rs4926802 | 0.039 | 0.410 | |
| rs939336 | 0.045 | 0.430 | |
| rs2242046 | 0.027 | 0.610 | |
| rs2268873 | 0.046 | 0.760 | |
| rs2301157 | 0.003 | 1.000 | |
| rs2066853 | 0.027 | 1.000 | |
| rs2305367 | 0.049 | 1.000 | |
| rs67944833 | 0.016 | | |

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|---|---|---|---|---|
| rs67944833 | 0.016 | | | |
| rs915909 | 0.030 | | | |
| rs1059491 | 0.031 | | | |
| rs2550915 | 0.048 | | | |
| rs4407290 | 0.048 | | | |
| rs28399499 | 0.049 | | | |

*Any Hemotoxicity*

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|---|---|---|---|---|
| rs6577 | **0.006** | 0.23 (0.05, 0.41) | **0.003** | |
| rs910795 | **0.009** | 0.18 (0.02, 0.34) | **0.005** | |
| rs1695 | **0.008** | 0.14 (0.01, 0.27) | **0.007** | |
| rs2277448 | 0.015 | -0.16 (-0.28, -0.04) | **0.007** | |
| rs2180314 | 0.022 | -0.16 (-0.27, -0.05) | **0.009** | |
| rs28365062 | 0.020 | | 0.027 | 0.016 |
| rs1046428 | 0.007 | | 0.004 | 0.019 |
| rs7853758 | 0.043 | | 0.045 | 0.031 |
| rs2884737 | 0.010 | | 0.120 | 0.031 |
| rs11211402 | 0.045 | | 0.047 | 0.032 |
| rs2297810 | 0.032 | | 0.015 | 0.038 |
| rs2276707 | 0.048 | | 0.049 | 0.041 |
| rs7200749 | 0.025 | | 0.017 | 0.042 |
| rs1051741 | 0.020 | | 0.020 | 0.042 |
| rs894469 | 0.020 | | 0.020 | 0.042 |
| rs8023604 | 0.047 | | 0.064 | 0.042 |
| rs17882539 | 0.049 | | 0.031 | 0.044 |
| rs4643786 | 0.004 | | 0.004 | 0.048 |

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|---|---|---|---|
| rs17878544 | 0.008 | 0.009 | 0.057 |
| rs3805114 | 0.035 | 0.035 | 0.077 |
| rs9474342 | 0.050 | 0.180 | 0.077 |
| rs7747555 | 0.036 | 0.036 | 0.079 |
| rs2268877 | 0.022 | 0.630 | 0.150 |
| rs1137115 | 0.010 | 1.000 | 0.390 |
| rs2738792 | 0.031 | 0.088 | 0.550 |
| rs2268873 | 0.013 | 0.810 | 0.570 |
| rs4803381 | 0.044 | 0.450 | 0.770 |
| rs1060253 | 0.045 | 0.340 | 1.000 |
| rs1051332 | 0.011 | 0.011 | |
| rs11764079 | 0.027 | 0.011 | |
| rs11770903 | 0.027 | 0.011 | |
| rs5952696 | 0.026 | 0.019 | |
| rs7879356 | 0.026 | 0.019 | |
| rs1881668 | 0.044 | 0.021 | |
| rs1056522 | 0.009 | 0.030 | |
| rs4715333 | 0.033 | 0.030 | |
| rs10002894 | 0.045 | 0.033 | |
| rs1801249 | 0.029 | 0.036 | |
| rs732774 | 0.032 | 0.036 | |
| rs4926802 | 0.013 | 0.038 | |
| rs2295475 | 0.029 | 0.039 | |
| rs6830685 | 0.050 | 0.047 | |
| rs3775770 | 0.026 | 0.076 | |
| rs6783962 | 0.040 | 0.140 | |

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|---|---|---|
| rs1340990 | 0.040 | 0.300 |
| rs2066853 | 0.039 | 0.490 |
| rs1736565 | 0.040 | 0.660 |
| rs4986993 | 0.022 | 1.000 |
| rs2341968 | 0.006 | |
| rs1801030 | 0.016 | |
| rs28693844 | 0.018 | |
| rs59443548 | 0.018 | |
| rs16840132 | 0.018 | |
| rs17215633 | 0.018 | |
| rs2550915 | 0.018 | |
| rs6921269 | 0.018 | |
| rs4679028 | 0.019 | |
| rs11568373 | 0.033 | |
| rs1645691 | 0.033 | |
| rs61743418 | 0.039 | |
| rs72554635 | 0.039 | |
| rs72554636 | 0.039 | |
| rs2234934 | 0.039 | |
| rs8187801 | 0.049 | |
| rs12721607 | 0.049 | |
| rs67944833 | 0.049 | |
| rs67944833 | 0.049 | |
| rs741817 | 0.050 | |
| rs6577 | 0.006 | |
| rs910795 | 0.009 | |

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|---|---|
| rs1695 | 0.008 |
| rs2277448 | 0.015 |
| rs2180314 | 0.022 |
| rs28365062 | 0.020 |
| rs1046428 | 0.007 |
| rs7853758 | 0.043 |
| rs2884737 | 0.010 |
| rs11211402 | 0.045 |
| rs2297810 | 0.032 |
| rs2276707 | 0.048 |
| rs7200749 | 0.025 |
| rs1051741 | 0.020 |
| rs894469 | 0.020 |
| rs8023604 | 0.047 |
| rs17882539 | 0.049 |
| rs4643786 | 0.004 |
| rs17878544 | 0.008 |
| rs3805114 | 0.035 |
| rs9474342 | 0.050 |
| rs7747555 | 0.036 |
| rs2268877 | 0.022 |
| rs1137115 | 0.010 |
| rs2738792 | 0.031 |
| rs2268873 | 0.013 |
| rs4803381 | 0.044 |
| rs1060253 | 0.045 |

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|---|---|
| rs1051332 | 0.011 |
| rs11764079 | 0.027 |
| rs11770903 | 0.027 |
| rs5952696 | 0.026 |
| rs7879356 | 0.026 |
| rs1881668 | 0.044 |
| rs1056522 | 0.009 |
| rs4715333 | 0.033 |
| rs10002894 | 0.045 |
| rs1801249 | 0.029 |
| rs732774 | 0.032 |

[1]Mehta's modification to Fisher's Exact test were conducted where appropriate.

[2]Combined categories with small sample sizes.