**Table S10** Gene-Environment analysis of the effect of the interaction between DMA% associated variants and water arsenic concentration on DMA%

|  |  |  |  |
| --- | --- | --- | --- |
| **Variables** | **β** | **S.E** | **P-Value** |
| **rs145537350** | -11.26 | 2.85 | 7.8x10-5 |
| Medium Arsenic Exposure | -1.55 | 0.42 | 2.7x10-4 |
| High Arsenic Exposure | -2.64 | 0.42 | 5.9x10-10 |
| rs145537350\*Medium Exposure | -0.4 | 3.7 | 0.91 |
| rs145537350\*High Exposure | -4.4 | 4.03 | 0.27 |
| **rs12573221** | 2.44 | 0.72 | 7.35x10-4 |
| Medium Arsenic Exposure | -2.01 | 0.49 | 3.69x10-5 |
| High Arsenic Exposure | -2.9 | 0.49 | 2.84x10-9 |
| rs12573221\*Medium Exposure | 1.05 | 0.99 | 0.29 |
| rs12573221\*High Exposure | 0.44 | 0.999 | 0.66 |
| **rs4919687** | -2.36 | 0.71 | 8.96x10-4 |
| Medium Arsenic Exposure | -1.5 | 0.48 | 1.71x10-3 |
| High Arsenic Exposure | -2.29 | 0.49 | 2.5x10-6 |
| rs4919687\*Medium Exposure | -0.83 | 1.03 | 0.42 |
| rs4919687\*High Exposure | -1.43 | -/99 | 0.15 |

Abbreviations: OR, odds ratio; S.E, standard error