

**Additional file 1 Estimated effective number of SNPs and significant Thresholds in populations**

| <i>Population</i> | <i>Observed</i> | <i>Effective</i>   | <i>Effective</i> | <i>Suggestive</i> | <i>Significant</i> |
|-------------------|-----------------|--------------------|------------------|-------------------|--------------------|
|                   | <i>SNPs</i>     | <i>Number (Me)</i> | <i>ratio</i>     | <i>P-Value</i>    | <i>P-value</i>     |
| <i>All</i>        | 3916415         | 757577.8           | 0.19             | 1.32E-06          | 6.60E-08           |
| <i>Aus</i>        | 1925362         | 235880.1           | 0.12             | 4.24E-06          | 2.12E-07           |
| <i>indica</i>     | 2767159         | 571842.8           | 0.21             | 1.75E-06          | 8.74E-08           |
| <i>japonica</i>   | 1857845         | 245347.5           | 0.13             | 4.08E-06          | 2.04E-07           |