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| **Supplementary Table 3 Eight genetic variants significantly associated with PM2.5 exposure as instrumental variables.** |
| SNP | Effect allele | Other allele | Effect allele frequency | Beta | SE | *P* |
| rs114708313 | T | A | 0.07  | 0.025  | 0.0045  | 4.20E-08 |
| rs12203592 | T | C | 0.21  | 0.022  | 0.0026  | 6.20E-17 |
| rs1372504 | A | G | 0.37  | 0.012  | 0.0022  | 3.10E-08 |
| rs1537371 | A | C | 0.50  | 0.012  | 0.0021  | 8.50E-09 |
| rs6749467 | A | G | 0.47  | -0.012  | 0.0022  | 1.40E-08 |
| rs72642437 | T | C | 0.004  | 0.113  | 0.0191  | 3.10E-09 |
| rs77205736 | T | C | 0.27  | 0.014  | 0.0024  | 2.10E-08 |
| rs77255816 | T | C | 0.04  | 0.031  | 0.0057  | 4.20E-08 |
| *PM2.5, particulate matter 2.5; SNP, single-nucleotide polymorphism；Beta, the regression coefficient based on PM2.5 raising effect allele; SE,* *standard error; Eight SNPs with P < 5 × 10−8 were selected as independent genetic instrumental variants; linkage disequilibrium region width k = 5000 kb, linkage disequilibrium coefficient r2 < 0.01.* |