

Table 4. Positive gender*genotype interaction in relevant *PYY* and *Y2R* SNPs (online appendix)

| | | Men | | | | | | Women | | | | | | <i>P</i> values for gender* genotype interaction | | |
|------------|---------|----------|----|----|--|-------------|-------------|----------|-----|----|--|------|------|--|-------------|-------------|
| | | Genotype | | | <i>P</i> values under different genetic models | | | Genotype | | | <i>P</i> values under different genetic models | | | | | |
| | | aa | ab | bb | add | dom | rec | aa | ab | bb | add | dom | rec | add | dom | rec |
| <i>PYY</i> | n(case) | 31 | 57 | 12 | | | | 66 | 128 | 68 | | | | | | |
| SNP1/2 | n(ctrl) | 24 | 21 | 22 | .160 | .002 | .516 | 11 | 40 | 9 | .679 | .077 | .264 | .191 | .001 | .207 |
| <i>PYY</i> | n(case) | 31 | 56 | 12 | | | | 66 | 128 | 68 | | | | | | |
| SNP3 | n(ctrl) | 24 | 20 | 22 | .161 | .001 | .501 | 9 | 40 | 9 | .939 | .097 | .120 | .286 | .001 | .106 |
| <i>Y2R</i> | n(case) | 28 | 51 | 20 | | | | 90 | 127 | 43 | | | | | | |
| SNP10 | n(ctrl) | 36 | 19 | 12 | .019 | .714 | .001 | 21 | 29 | 10 | .979 | .981 | .955 | .086 | .777 | .018 |
| <i>Y2R</i> | n(case) | 28 | 51 | 20 | | | | 90 | 127 | 43 | | | | | | |
| SNP11 | n(ctrl) | 36 | 19 | 12 | .019 | .714 | .001 | 21 | 29 | 10 | .979 | .981 | .955 | .086 | .777 | .018 |

Case refers to severe obese group. Ctrl refers to non-obese control group. Allele a refers to major allele, and allele b refers to minor allele.

Add stands for additive model, dom dominant model, and rec recessive model.