

**Supplemental Table 1.** Study details from published genome-wide association study summary data used in two-sample Mendelian randomization of causal effect of different exposures on soluble leptin receptor (sOb-R) as the outcome.

| Phenotype       | Author    | ID*              | Consortium/Study   | Ancestry | n       |
|-----------------|-----------|------------------|--------------------|----------|---------|
| sOb-R           | Sun (1)   | prot-a-1724      | The INTERVAL study | European | 3 301   |
| Fasting glucose | Scott (2) | ieu-b-114        | MAGIC              | European | 133 010 |
| Fasting insulin | Scott (2) | ieu-b-116        | MAGIC              | European | 108 557 |
| BMI             | Yengo (3) | ieu-b-40         | GIANT              | European | 681 275 |
| Body fat (%)    | Lu (4)    | ebi-a-GCST003435 |                    | European | 65 831  |

\* Available at IEU OpenGWAS project, <https://gwas.mrcieu.ac.uk/>

## References

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