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Identifying novel genes for carcass traits by testing G x E interaction through genome-wide meta-analysis in Chinese Simmental beef cattle

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Highlight

- A meta-analytic approach to identify loci involved in G x E interaction was proposed.
- Confounders such as years were treated as multiple environments in this GAWs.
- Six novel candidate genes related to carcass traits in Simmental beef cattle were revealed, namely *RISM2*, *PRKAR2B*, *GPR133*, *AKAP1*, *PCDH10*, and *AADAT*.

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