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### ACCEPTED MANUSCRIPT

# Metabolic switching in the hypoglycemic and antitumor effects of metformin on high glucose induced HepG2 cells

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#### Highlights:

- Glucose metabolic imbalance were observed in 25 mM glucose induced HepG2 cells.
- ASCA was used to study hypoglycemic and antitumor effects of metformin on IR-HepG2.
- Five metabolites play vital roles in hypoglycemic and antitumor effects of metformin.

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