Supplementary information

Predicting the murine enterocyte metabolic response to diets that differ in lipid and carbohydrate composition

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Contents:

Supplementary Dataset 1: Separate Excel file containing:

- Sheet 1: Reaction information for 1830 reactions represented in model *mmu_ENT717*.
- Sheet 2: Metabolite information for 708 metabolites represented in model mmu_ENT717.
- Sheet 3: Dietary composition broken down into 39 components.
- Sheet 4: Simulation results for selected metabolic task for enterocytes and flux through other reactions in the presence or absence of apical localized GLUT2.
- Sheet 5: Simulation results of impact of reaction deletions on maximal glucose secretion.
- Sheet 6: Simulation results of impact of reaction deletions on maximal TAG secretion in chylomicrons.

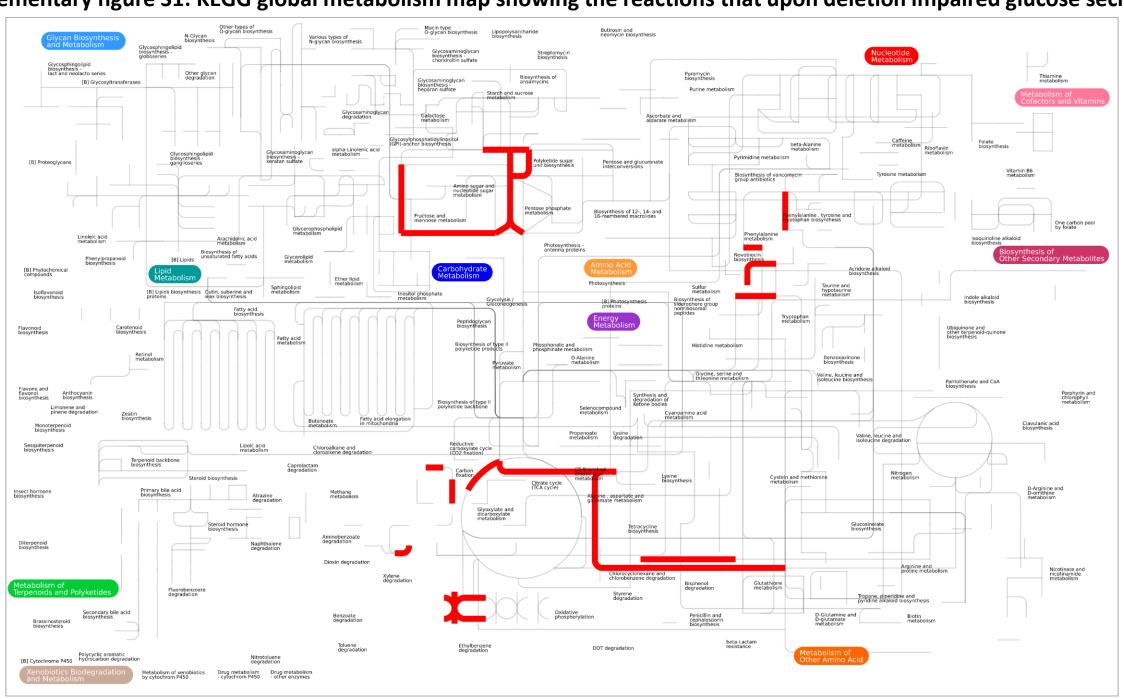
Supplementary Dataset 2: Separate ZIP archive containing:

Model *mmu_ENT717* in *mat* format.

Supplementary Figures:

KEGG global metabolism map showing the reactions that upon deletion impaired glucose secretion (Figure S1), or abolished TAG secretion (Figure S2).

Supplementary figure S1: KEGG global metabolism map showing the reactions that upon deletion impaired glucose secretion.



Supplementary figure S2. KEGG global metabolism map showing the reactions that upon deletion abolished TAG secretion.

