

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

