

# PKT Foodomics Metabolite Calculator

## Senior Project

### Fall 2021

#### I. Overview

- A. Team
  - 1. Leader – Scott Wilkinson
  - 2. Clinical Consultant – Ila Bagheri
  - 3. Computer Science Consultant – Devin Blem
- B. Need for PKT Foodomics Metabolite Calculator – Although we know that different fatty acids affect metabolism differently, the current PKT ratio assumes that all fat is the same, all protein is the same, and all carbohydrate is the same. Our PKT diet prescription needs to be able to prescribe individual nutrients or families of nutrients.
- C. Long-term Goals - Accurate quantitation of all metabolites of preparations to administer to people on PKT
- D. Fall 2021 Goals – Create a relational database in HiPerGator for our PKT foodomics database and expand it to include individual amino acids, individual fatty acids, and different carbohydrates in each product.

#### II. Plan and Progress

- A.