

# PKT Foodomics Intake Calculator

## Senior Project

### Fall 2021

#### I. Overview

##### A. Team

1. Leader – Tyler Mueller
2. Clinical Consultant – Harleen Kahlon
3. Computer Science Consultant - Dylan Booth

B. Need for PKT Foodomics Intake Calculator – Efficacy of Precision Ketogenic Therapy is not determined by what we prescribe, but what is consumed. Currently there is no widely available tool for determining actual PKT intake at the metabolite/nutrient level required for precision medicine.

C. Long-term Goals – Create tools for accurate quantitation of all metabolites administered to people on PKT that can be transferred to clinical practice.

D. Fall 2021 Goals – Expand and refine current manual methods developed in the lab to methods using a relational database in ResVault on HiPerGator.

#### II. Plan and Progress

##### A.