Christina Yu
PI: Neil Sarkar

Title: A Computational Approach for Identifying Plant-Based Foods for Addressing Vitamin Deficiency Diseases

Abstract:
Vitamins are nutrients that are essential to human health, and deficiencies have been shown to cause diseases. A vegetarian diet has been known to result in vitamin deficiencies. We are developing a computational method that will relate vitamin deficiency diseases to plant-based foods that are rich in the deficient vitamin. Our goal is to create a system that enables one to enter a vitamin deficiency disease and report a list of plant-based foods that may be used to supplement one's diet. Additionally, the system will enable one to enter in a vitamin deficiency and report diseases associated with the deficiency and plant-based foods with high vitamin content to supplement the deficiency. Ultimately, we hope that the system will become a resource to support information needs pertaining to vitamin deficiency.