An Oral Vaccine-Based Strategy to Prevent Bacterial Infectious Diarrhea

**Title:** An Oral Vaccine-Based Strategy to Prevent Bacterial Infectious Diarrhea

**Invention:** This invention is an oral vaccination that aims to prevent bacterial infectious diarrhea. This oral vaccine induces a potent anti-pathogen immune response and has the potential to be utilized for a variety of bacterial strains that cause diarrhea.

**Background:** There are a large number of bacterial strains that result in infectious diarrhea ranging from E. coli to Salmonella. Bacterial strains that cause diarrhea kill roughly 1.31 million people on an annual basis, the large majority of which are children in developing countries. Currently, there is not a vaccine to prevent a wide array of infections.

**Applications:**
- Vaccine to treat bacterial infectious diseases that cause diarrhea

**Advantages:**
- Passive and safe
- Prevents colonization of bacterial pathogens
- For use on human and non-human populations
- Aims at preventing a number of diarrhea-based illnesses

**Licensing Manager:**
Tod McCauley

TodM@tla.arizona.edu

(520) 626-7916
Inventors

Gayatri Vedantam
Professor, 48 Animal & Comparative Biomedical Sciences

Virinchipuram Viswanathan
Associate Professor, SACBC