Paige Vega  
Graduate Student – Lau Lab  
“A gut-brain neural circuit for nutrient sensory transduction"  
Kaelberer et al  
Science, 21 Sep 2018: Vol. 361, Issue 6408

The gut is a complex system that digests food to provide molecules to power the body. However, we have all experienced “a gut feeling”, anxiety, or excitement through sensations in our gut. Because the intestine is lined with millions of nerve cells, scientists have suspected the existence of a gut-brain axis, and are just beginning to understand how our brain receives and responds to information from the digestive system. Previous studies by this group suggested a direct connection of intestinal epithelial cells with neurons. Their latest work shows direct epithelial-neural connection to the brain, and identifies a neurotransmitter responsible for transmitting sugar stimuli directly to the brain within milliseconds. This transformative study will contribute to our understanding of intestinal diseases and intestinal manifestations that present with neurological symptoms.

Friday, November 16th, 2018  
3131 MRBIII @ 4 pm