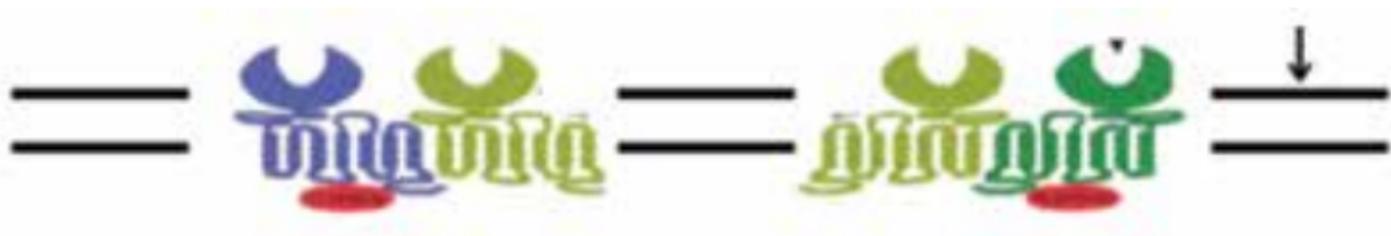


# Taste Receptors for Sweet and Umami Perception

Outside taste cell

Lipid bilayer



Inside taste cell

T1R2 T1R3

Sweet

T1R3 T1R1

Amino acid (umami)

**Discovered by multiple research groups in 1999-2000**

SOURCE: NANCY E. RAWSON, PH.D., MONELL CHEMICAL SENSES CENTER/2017 SWEETENER SYSTEMS CONFERENCE, GLOBAL FOOD FORUMS, INC.