

## Activation of TAS2R bitter receptors by the plant order *Brassicales*

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**Projektlaufzeit:**

2017 bis 2018

**Mittelgeber:**

Industrie

**Zusammenfassung:**

Emerging evidence supports the hypothesis that chemosensory G-protein-coupled receptor (GPCR) activation is involved in many biological processes beyond taste. Bitter taste T2R receptors are thought to function as a novel arm of innate immunity and potentially have a clinical relevance especially to airway infections. Thus T2R signaling would be expected to contribute to innate immune defenses against a number of potential pathogens that are associated with respiratory infection.

This study investigates the effects of bitter tasting small molecules on T2R receptor activation and the downstream consequences.