

Food aromas could become new weapon in battle of the bulge

December 16 2009



The aroma of foods could become a new weapon in the battle of the bulge by quenching the sensation of hunger. Credit: Wikimedia Commons, Jon Sullivan

A real possibility does exist for developing a new generation of foods that make people feel full by releasing anti-hunger aromas during chewing, scientists in the Netherlands are reporting after a review of research on that topic. Such foods would fight the global epidemic of obesity with aromas that quench hunger and prevent people from overeating.

Their article appears in ACS' *Journal of Agricultural and [Food Chemistry](#)*.

Rianne Ruijschop and colleagues note that scientists long have tried to

develop tasty foods that trigger or boost the feeling of fullness. Until recently, that research focused on food's effects in [stomach](#) after people swallow it. Efforts now have expanded to include foods that release hunger-quenching aromas during chewing. Molecules that make up a food's aroma apparently do so by activating areas of the brain that signal fullness.

Their analysis found that aroma release during chewing does contribute to the feeling of fullness and possibly to consumers' decisions to stop eating. The report cites several possible applications, including developing foods that release more aroma during chewing or developing aromas that have a more powerful effect in triggering feelings of fullness.

More information: "Retronasal Aroma Release and Satiation: A Review," *Journal of Agricultural and Food Chemistry*, [pubs.acs.org/stoken/presspac/p ... ll/10.1021/jf901445z](https://pubs.acs.org/stoken/presspac/p...ll/10.1021/jf901445z)

Provided by American Chemical Society

Citation: Food aromas could become new weapon in battle of the bulge (2009, December 16) retrieved 23 April 2024 from <https://phys.org/news/2009-12-food-aromas-weapon-bulge.html>

| |
|--|
| <p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p> |
|--|