OLFACTION: LITTLE-KNOWN PROPERTIES

THE HUMAN OLFACTORY SYSTEM



Million olfactory cells olfactory receptors

ORTHONASAL PATHWAY: ODOUR

 $2cm^2$ surface of the human olfactory mucosa

100 cm² surface of the olfactory mucosa in cows!



2 mechanisms involved in

odour perception

THERE ARE TWO WAYS TO SMELL

The **retronasal pathway** is often confused with taste perception! But it is really about smell..

RETRONASAL PATHWAY: AROMA

Without the participation of the sense of smell there is no complete tasting... one (the taste) serves for the tasting of tactile bodies, and the other (the sense of smell) for the tasting of gases

of taste perception is actually smell



to 800 aromatic compounds!

5 TASTES sweet, salty, sour, acid and umami

Flavours millions of possibilities!



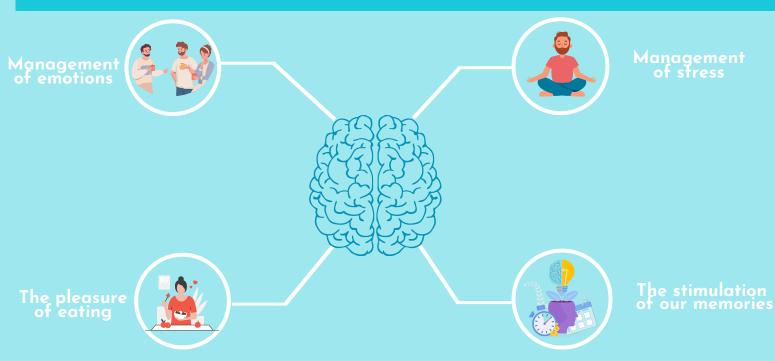
Fizzing, pungent, burning, astringent, irritating, freshness, but also the temperature of the food.



All the olfactory, gustatory and tactile sensations experienced during the tasting.

THE IMPACT OF AROMATIC MOLECULES ON THE BRAIN

The **sense of smell** is the only sense directly linked to the **brain**. Aromatic molecules are identified by olfactory receptors which transmit a **nervous message** to the areas of the brain involved in:



Phode olfactory solutions use the benefits of aromatic molecules for Better-Being