

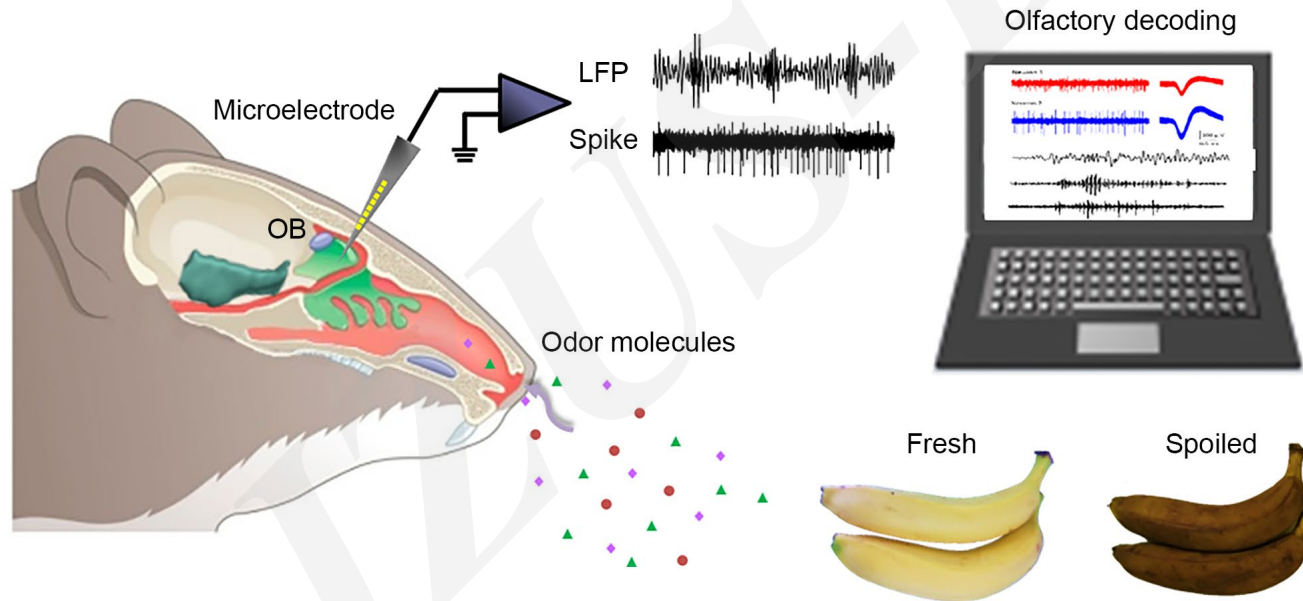
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Spatiotemporal coding of natural odors in the olfactory bulb

Key words: Neural interface, Olfactory bulb, Spike activity, Neural
oscillation

Research Summary

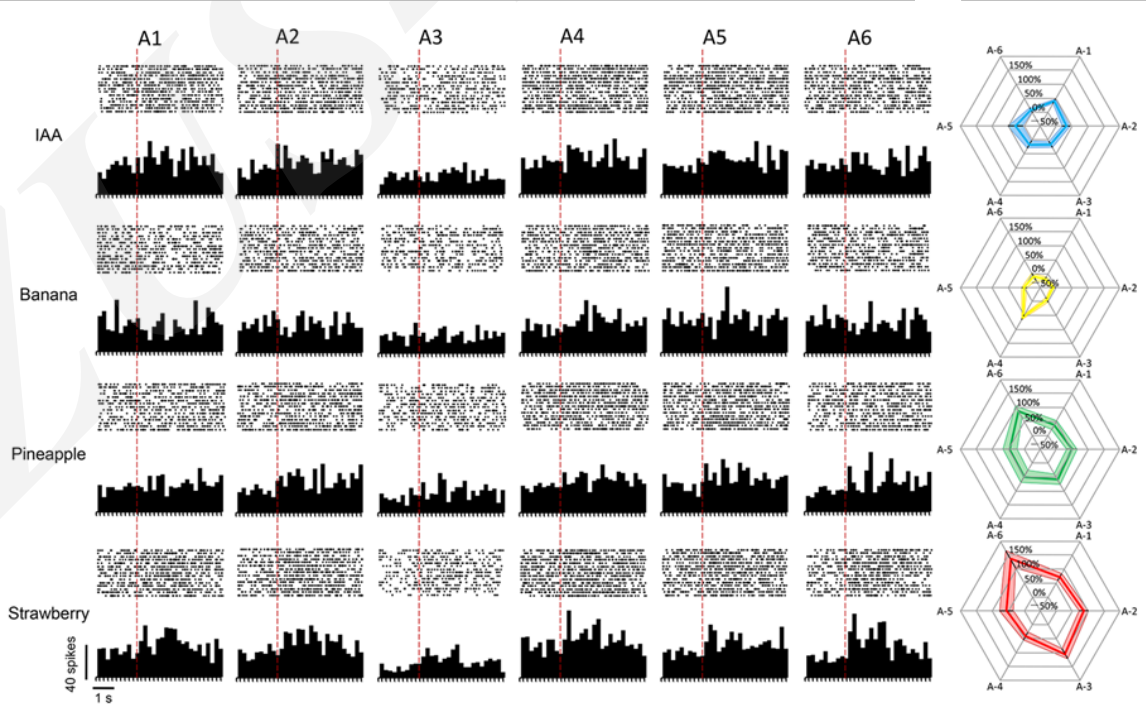
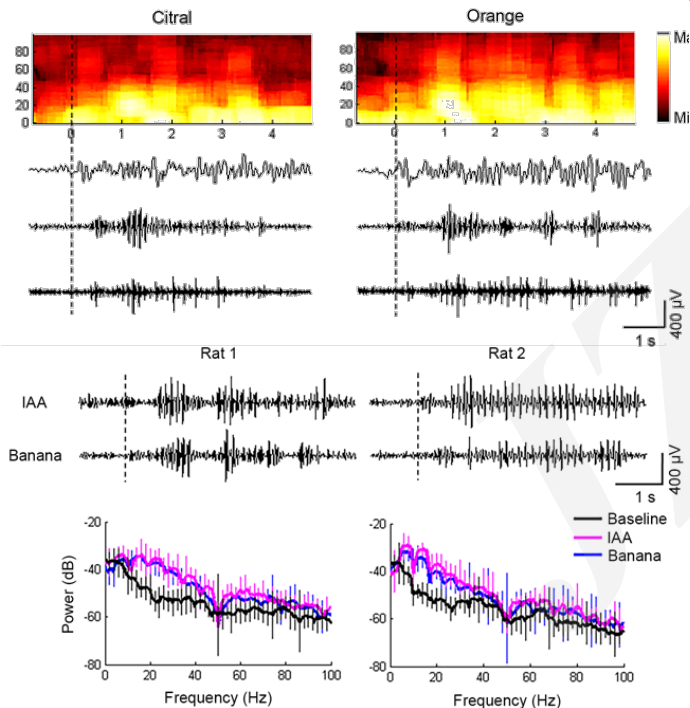
This research presents an *in vivo* biosensing system for food inspection through detecting the odorant generated from food providing a promising platform for assessing food freshness.



- Neural interface system
- Olfactory spatiotemporal coding
- Nature odors detection application

Innovation points

- The different odors could evoke distinct oscillatory activities, with a notable enhancement in the power of LFP during odor stimulation.



Innovation points

- The firing patterns of the neuron cells were influenced by the composition and concentration of volatile compounds emitted from the natural food.

