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WELCOME

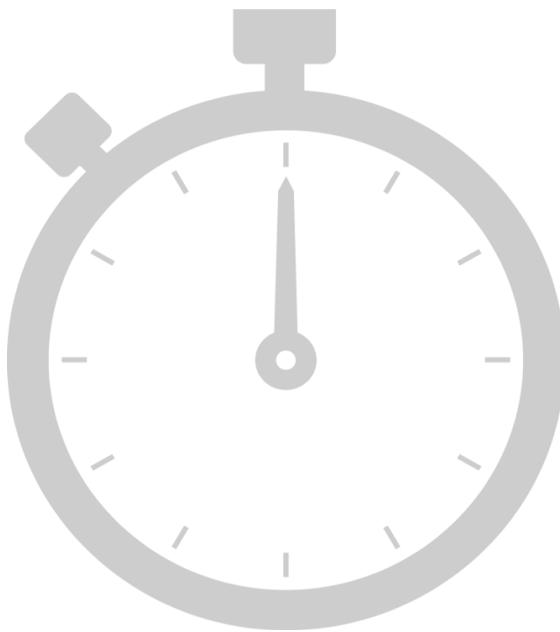
2024 Postdoctoral
Fall Symposium

The Office of Postdoctoral Affairs
The Graduate School | Florida State University

FSU

The Office of Postdoctoral Affairs

Presents:



FIVE MINUTE RESEARCH

POSTDOC COMPETITION



Florida State University



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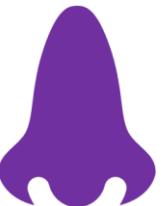
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Department of Biological Science &
Program in Neuroscience

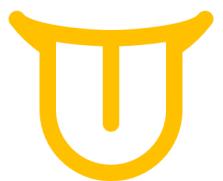
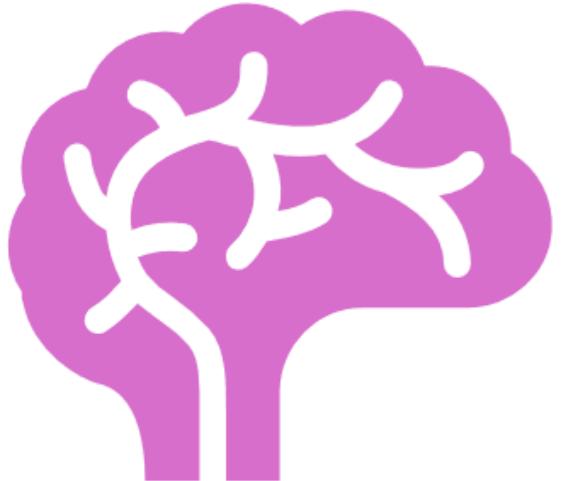
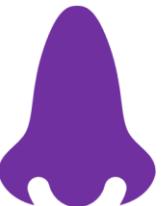
*A Matter of Taste: Unveiling the “New” Region in
Taste Processing*

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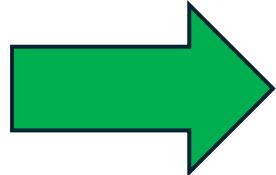
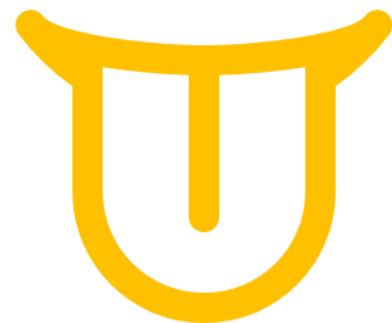
*A sensational
place...*

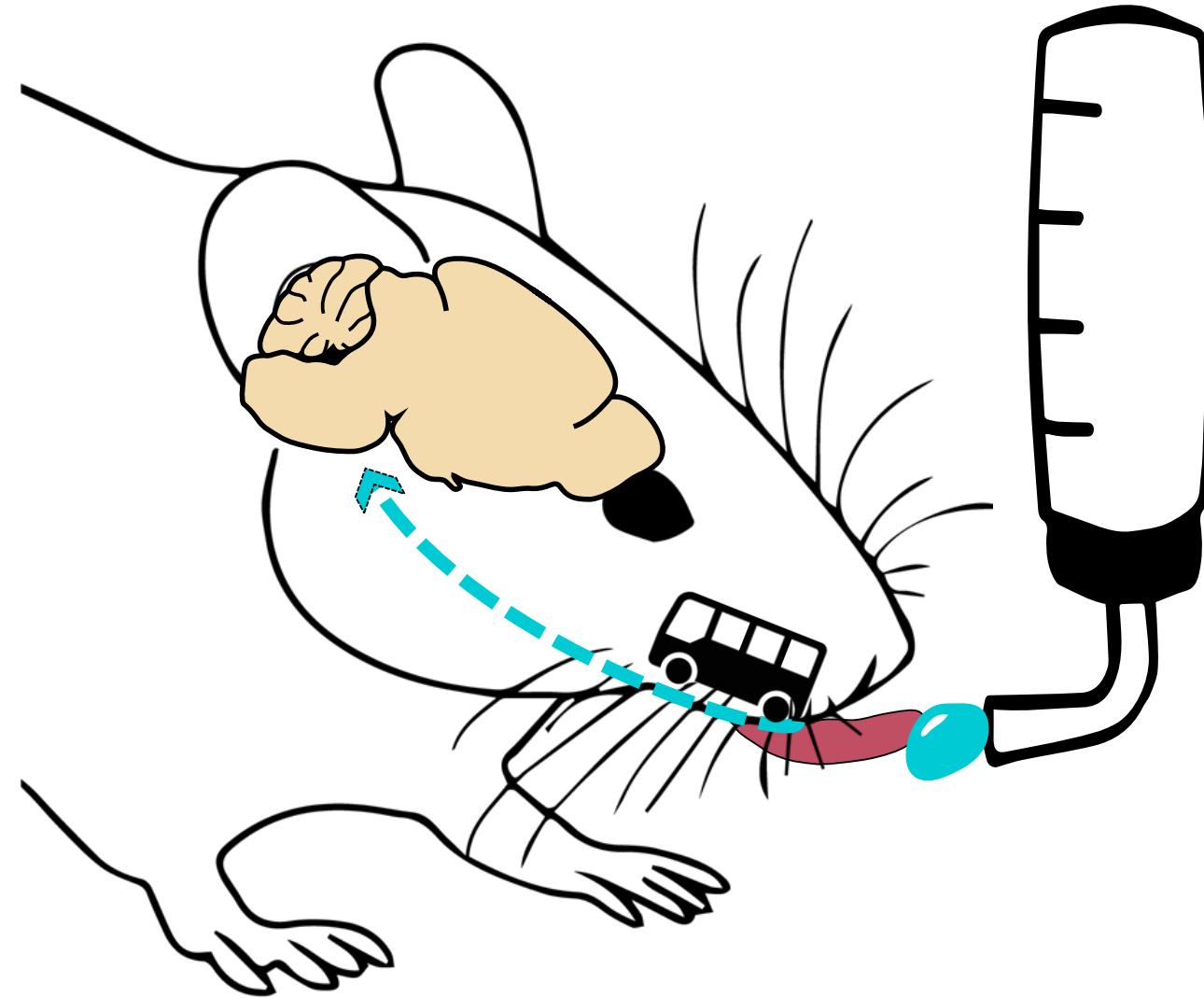


A sensational
place...

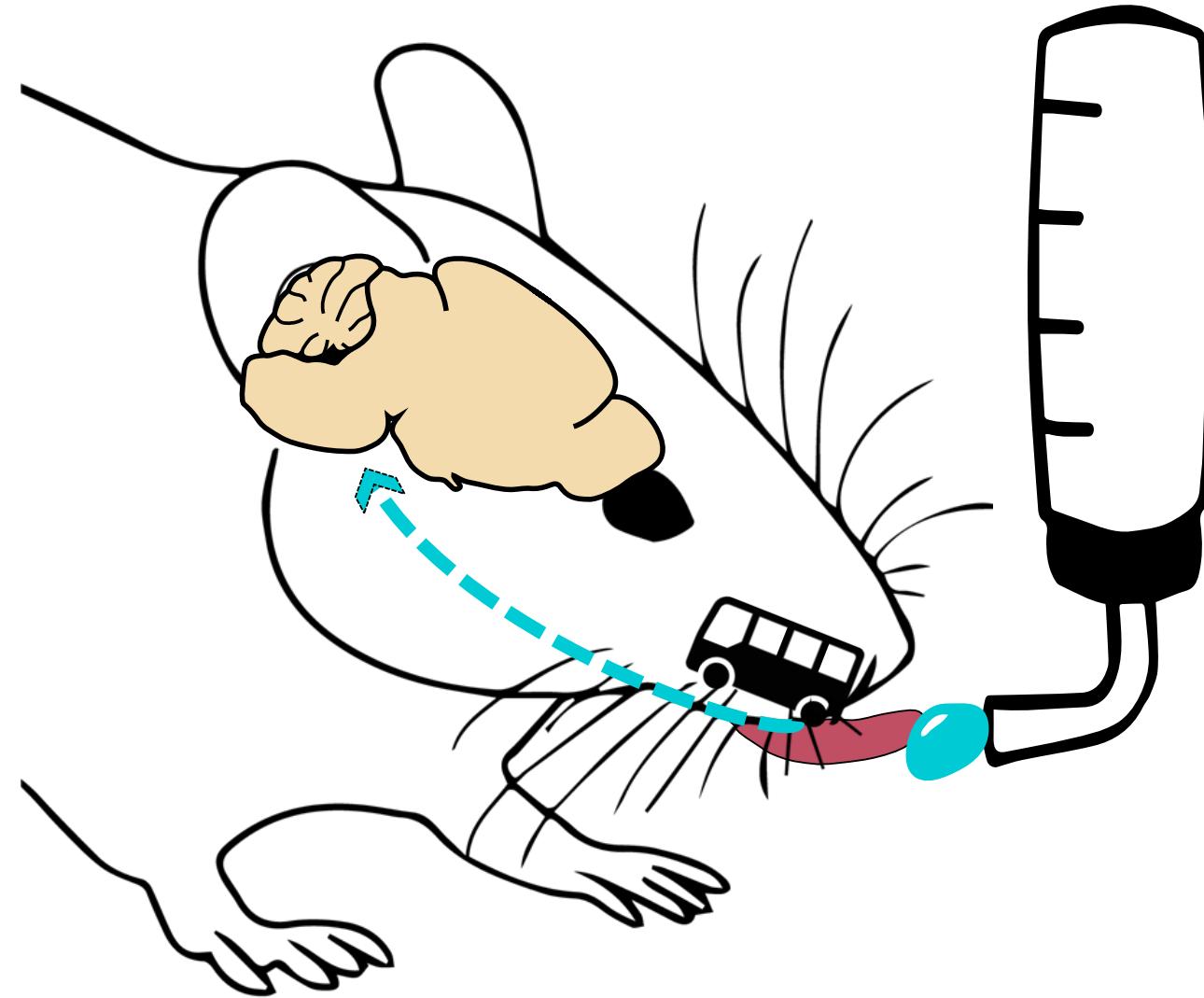


How does the brain process taste information?

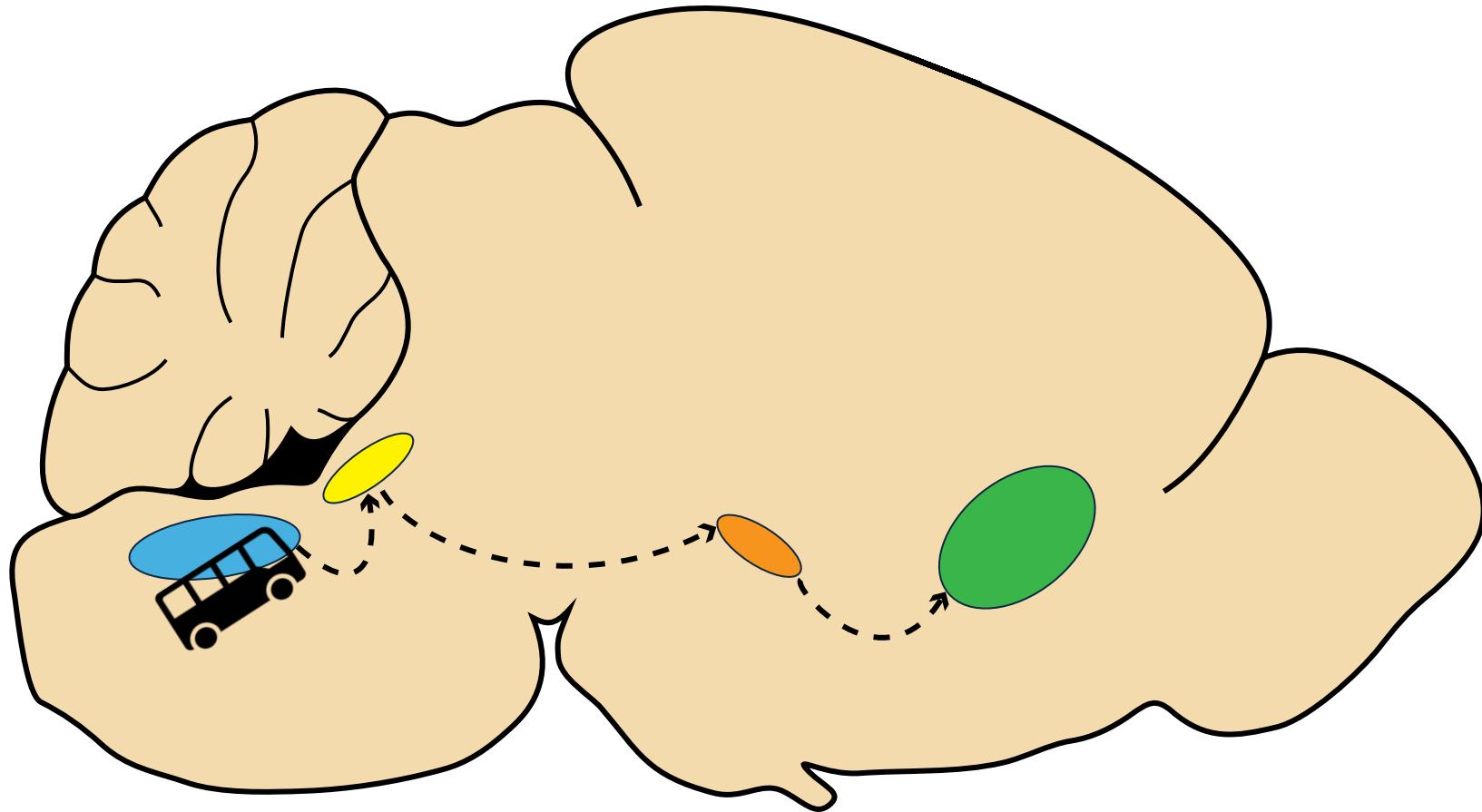




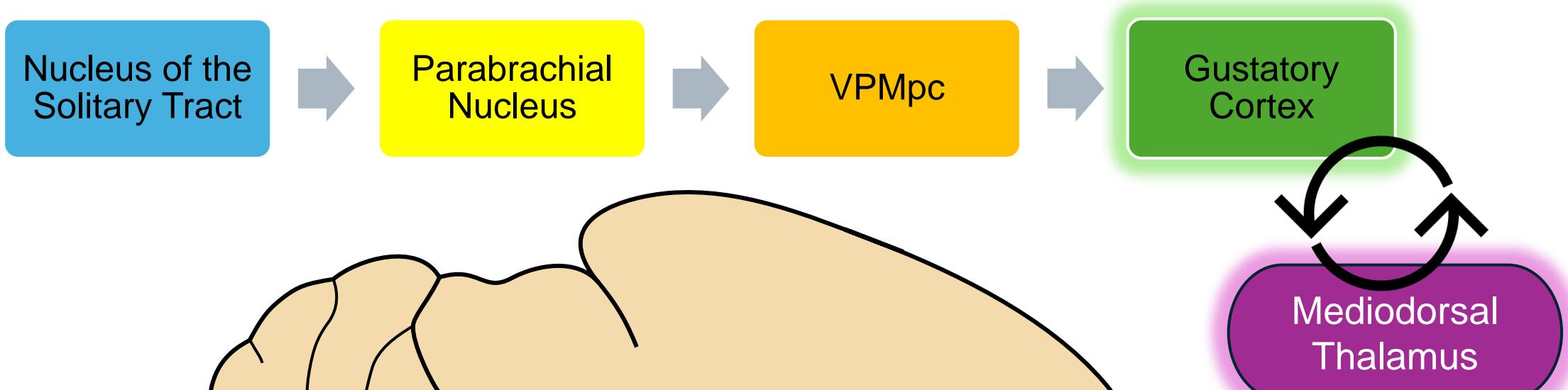
Taste processing in the mouse brain.



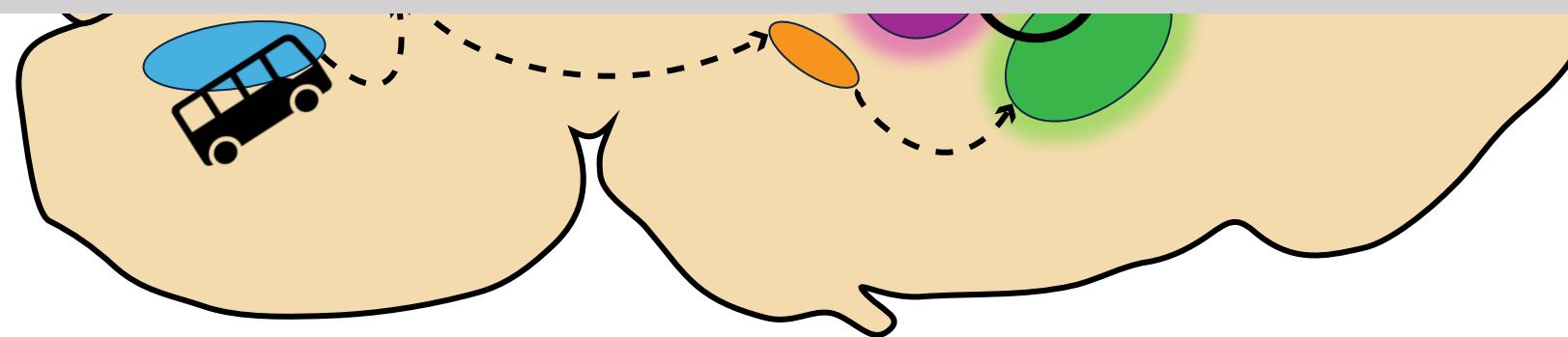
Taste processing in the mouse brain.



Taste processing in the mouse brain.



Does the mediodorsal thalamus play a role in processing taste-related information?

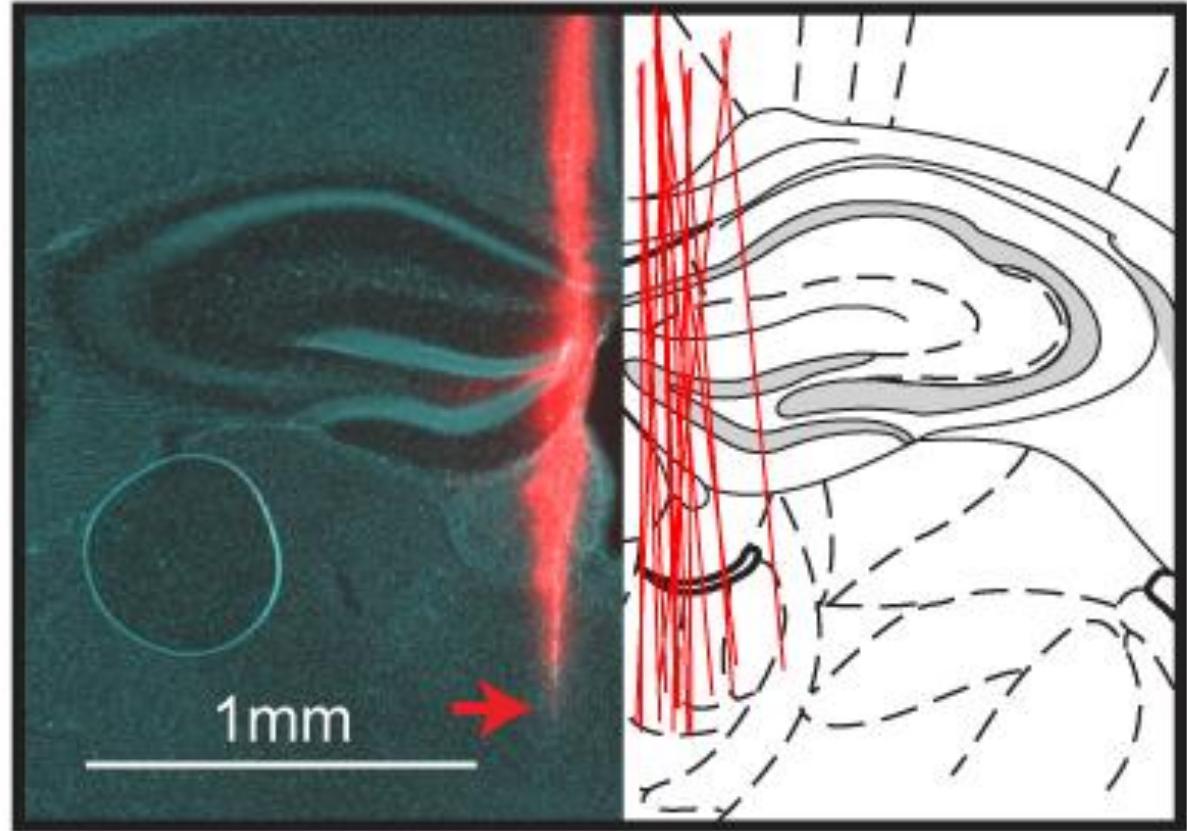
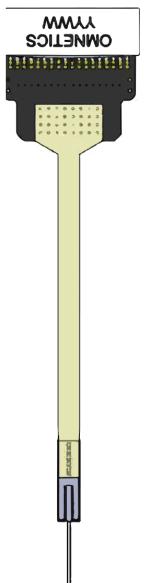
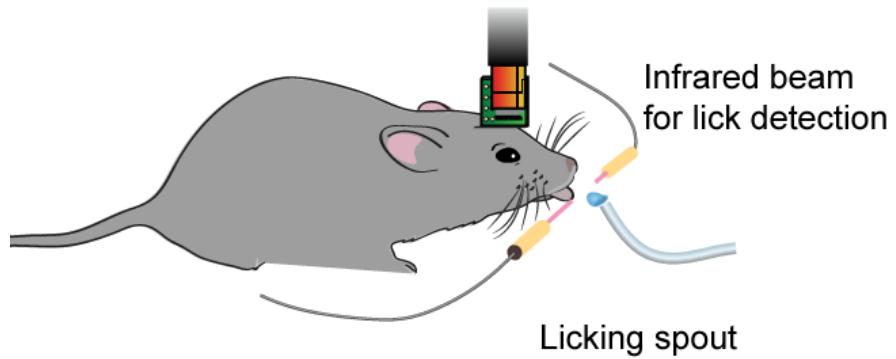


Taste processing in the mouse brain.

Experimental Approach

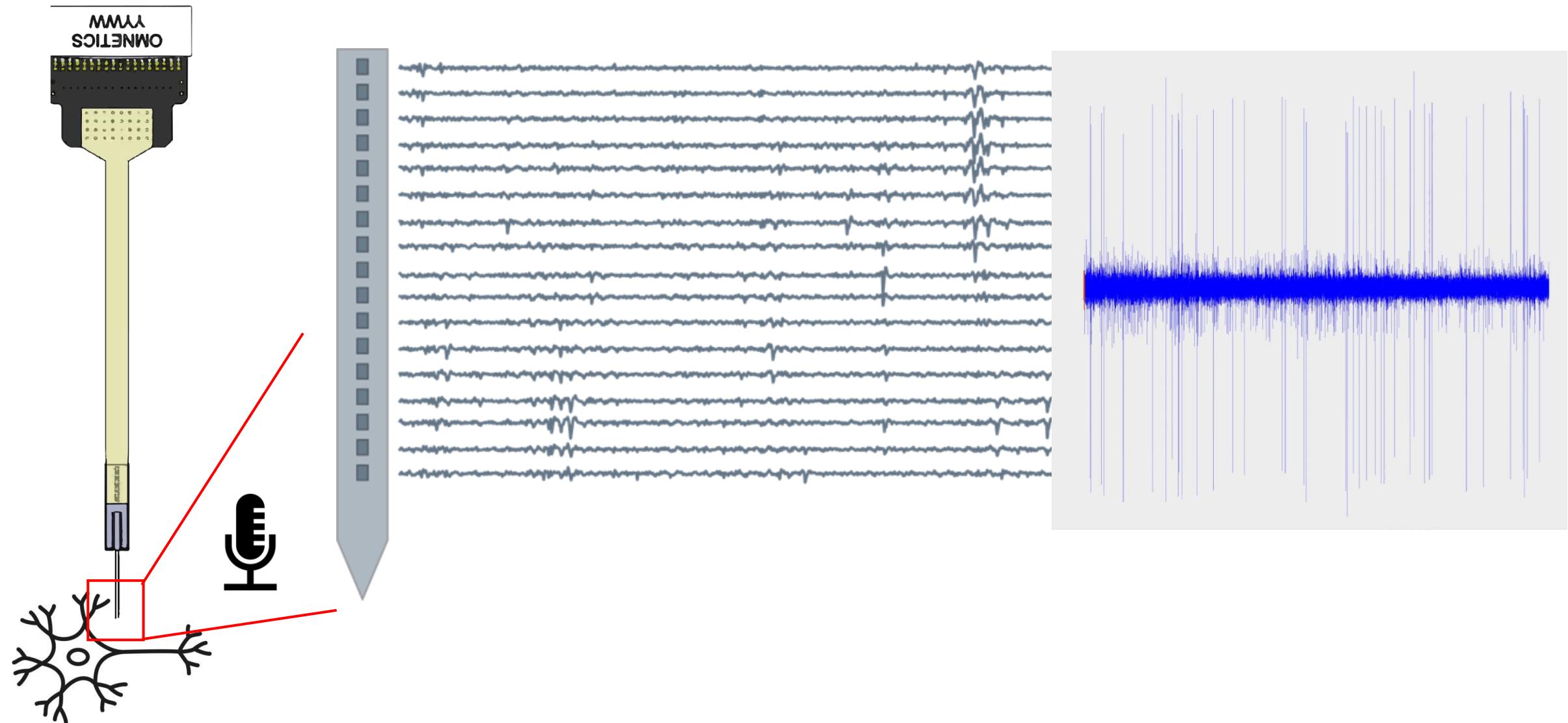
Histological verification

Sketch of experimental setup



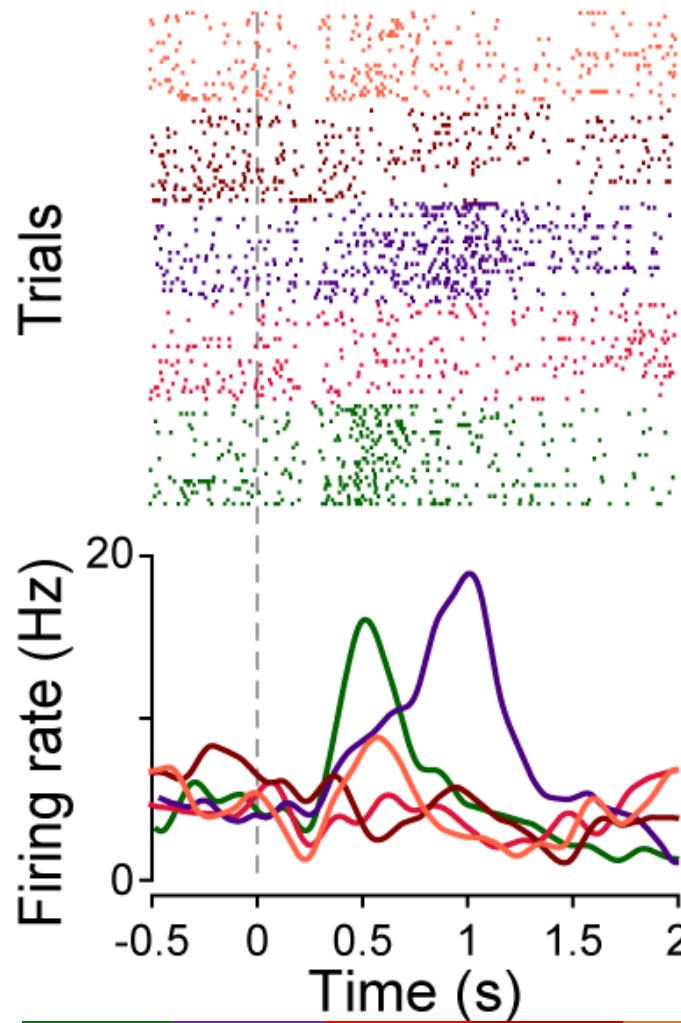
- Silicon probes (recording devices) were implanted in the mediodorsal thalamus (MD).
- Mice were trained to lick to a spout to receive basic taste qualities (salty, sweet, bitter, sour) or different intensities of tastes (sweet and salty, separately).

What are neurons saying?

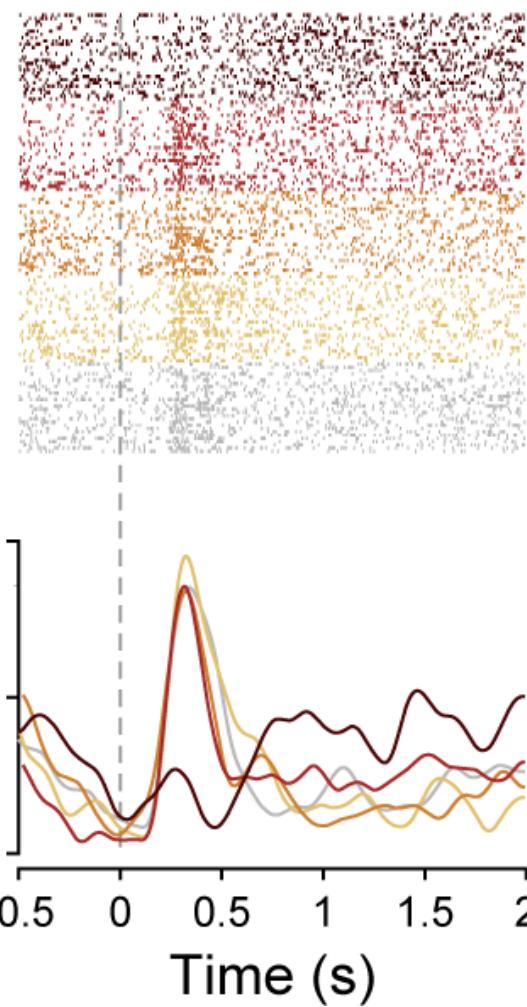


MD neurons represent information about taste qualities ~~qualities~~ *concentrations*

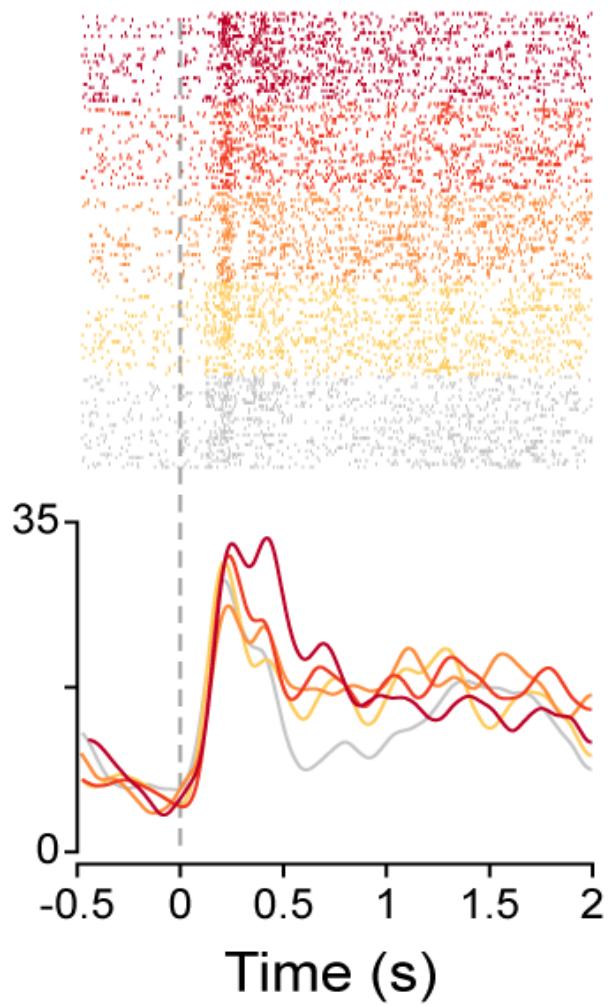
Taste Quality



Sucrose (sweet)



NaCl (salty)



Sour Bitter Salty Sweet Water

Different taste qualities

0.02 0.04 0.06 0.1 M 0.3 M

M M M

Increasing sucrose concentration

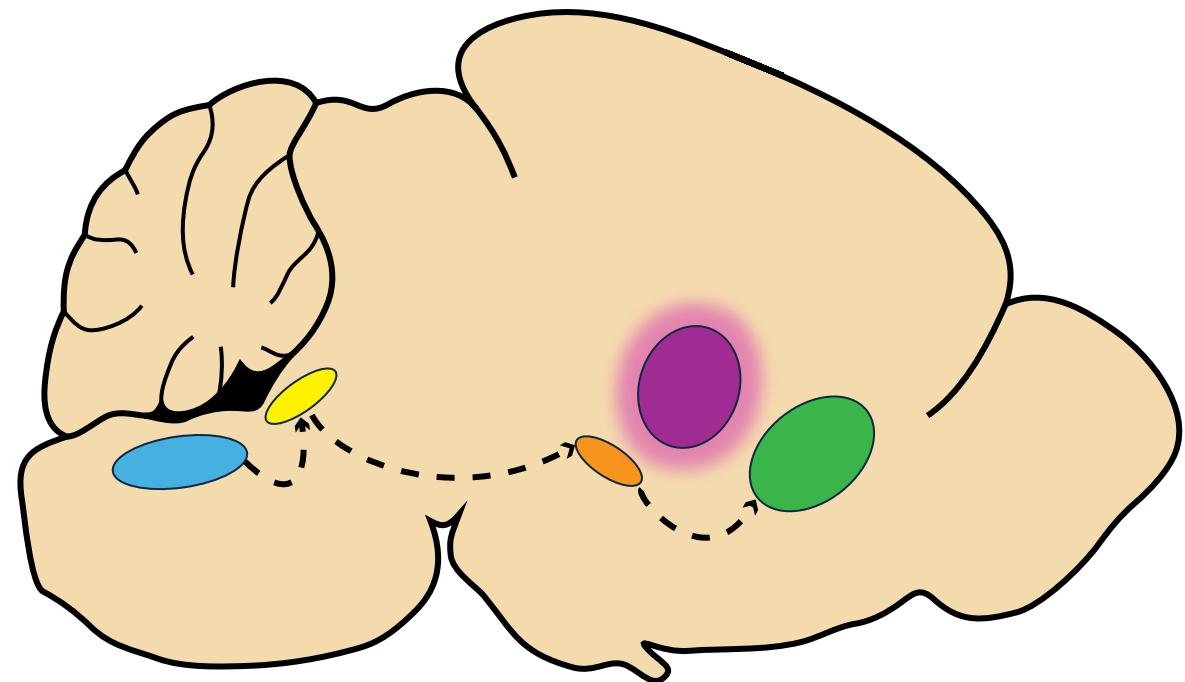
0.02 0.04 0.07 0.15 M 0.3 M

M M M

Increasing NaCl concentration

So...does the mediodorsal thalamus play a role in processing taste-related information?

- Yes!
 - The MD represents information about taste qualities (salty, sweet, bitter, sour) and concentrations of sweet and salty tastes.
 - The MD may have an important role in driving eating behaviors, so leaving it out when we talk about taste may not paint a full picture.



Acknowledgements



Jing Wang
Dean and Professor
PhD, MPH, RN, FAAN



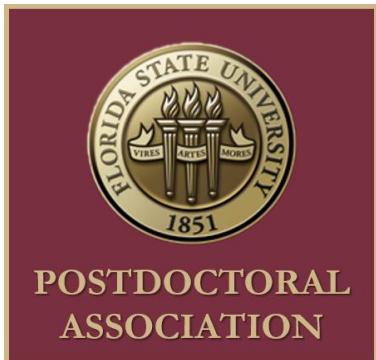
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Associate Professor
PhD, RN



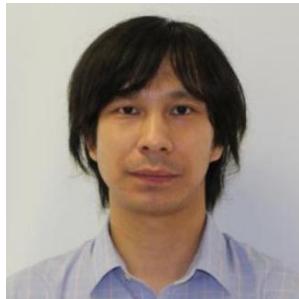
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and award presentations

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PROGRAM END

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