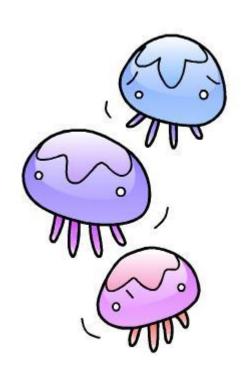
A Study About the Trigger of Feeding of *Aurelia Aurita*

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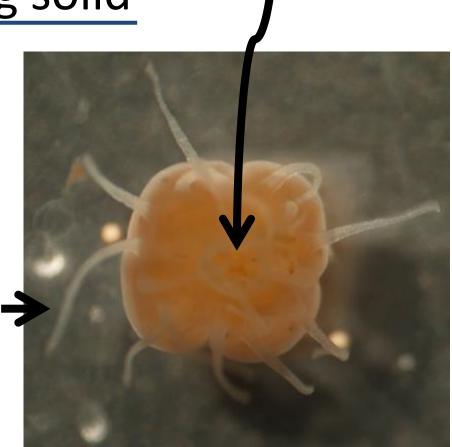
Outline

- 1. Introduction
- 2. Methods3. Results
- 4. Discussion

arm

Polyp

- A form of jellyfish
- Attach to something solid
- Eat planktons



mouth



My big question

How do polyps distinguish food from uneatable things?

Previous research: *Cordylophora* distinguish food by particular amino acid

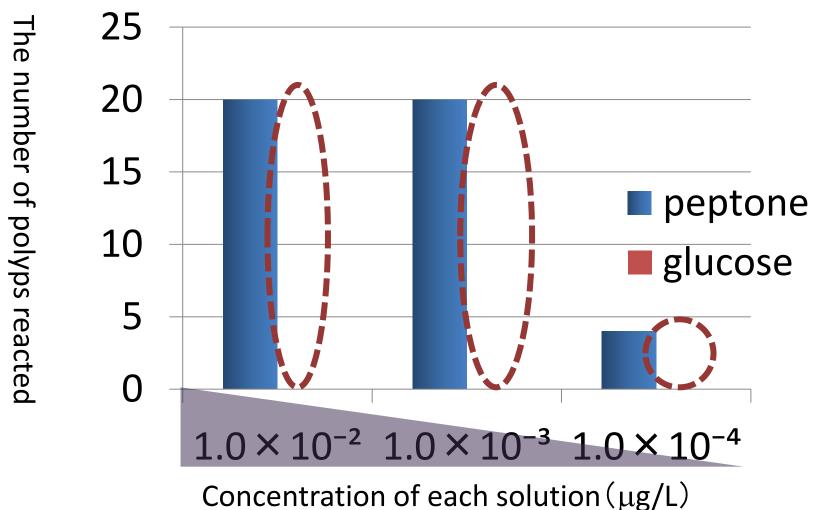
→ Do polyps really distinguish food only by amino acid?

1. Do polyps really distinguish food only by amino acid?

Peptone : fragment of proteinGlucose : sugar

→Expose to 20 polyps

Reactions of polyps



How do polyps distinguish food from uneatable things?

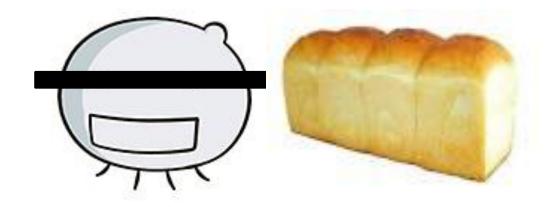
Do polyps really distinguish food only by amino acid?

 \rightarrow Yes.



Is the key amino acid only one kind?

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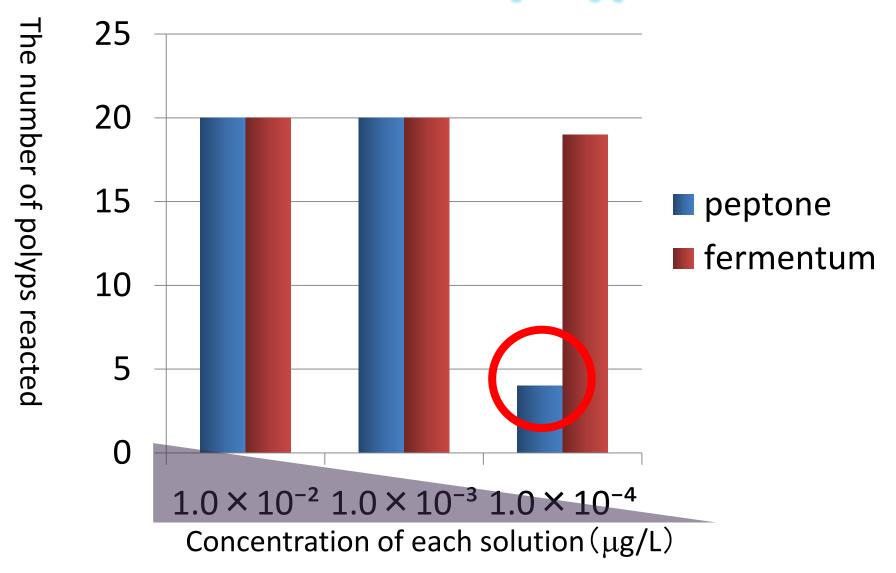
http://blog.livedoor.jp/keloinwell/archives/1413914.html

Fermentum http://blog.livedoor.jp/keloinwPeptone(from Experiment1)

→Expose to 20 polyps

Introduction Method Results Discussion

Reactions of polyps



The trigger of feeding

Aurelia → Certain kinds of amino acid



Conclusion

Amino acid is the trigger of polyp's feeding

 Certain kinds of amino acids trigger the feeding of Aurelia polyps

- Could not answer 2nd question
- " Is the key amino acid only one kind?"

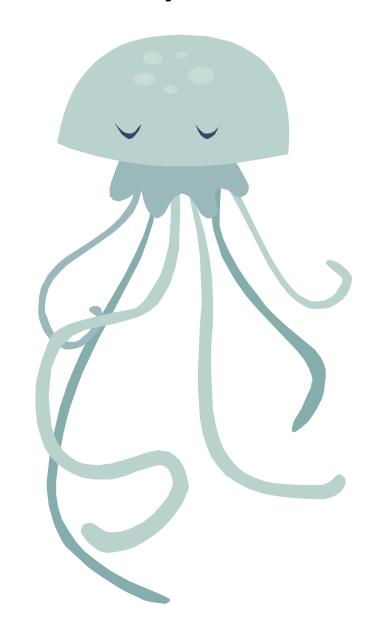
Future Work

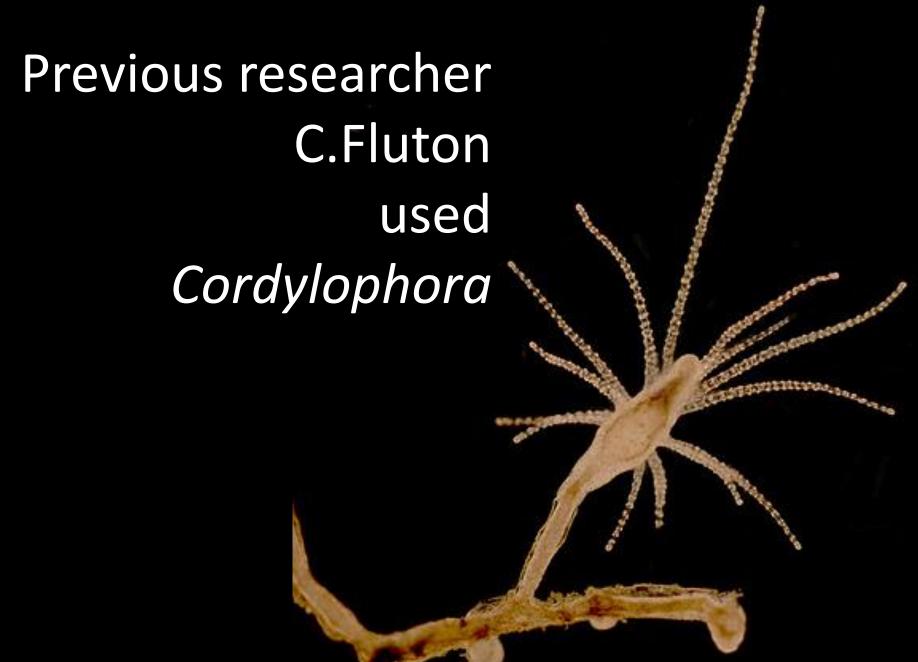
Expose polyps to each kind of amino acid



Determine the amino acids trigger polyp's feeding

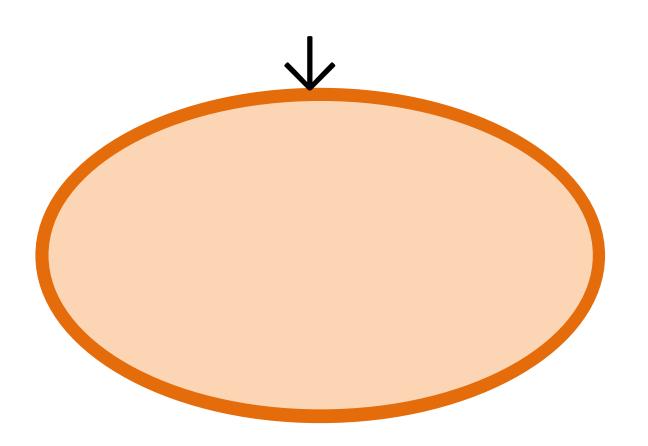
Thank you for your attendance.





http://flickrhivemind.net/User/djpmapleferryman/Recent

membrane (Skin of cell)



Budded and grown











