

The Antibacterial Effect of Tea

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Outline

- Introduction
- Materials and methods
- Results
- Discussion
- Conclusion

Introduction

Tea – world wide beverage

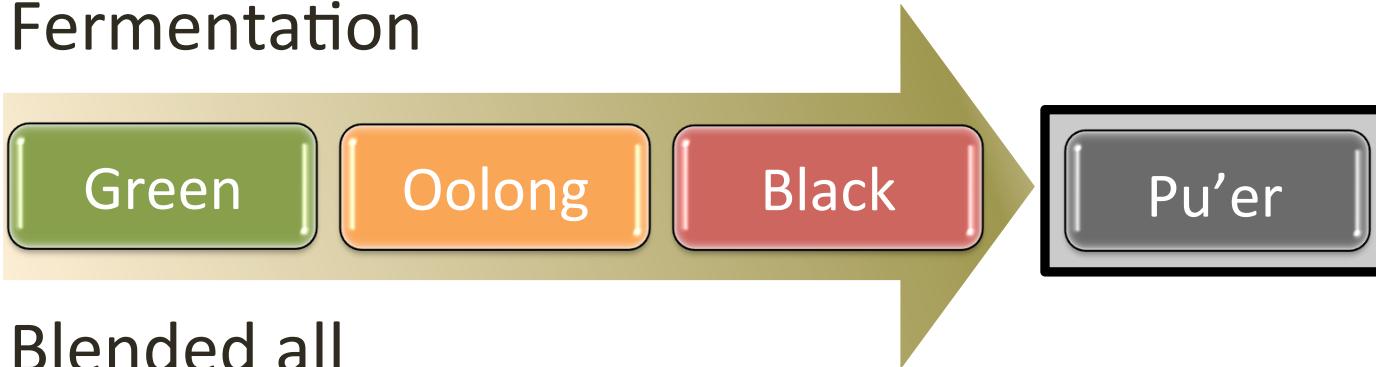


Purpose

- What kind of tea is effective?
 - Green tea
- How's the effect of blended tea?
 - Average of all

Materials

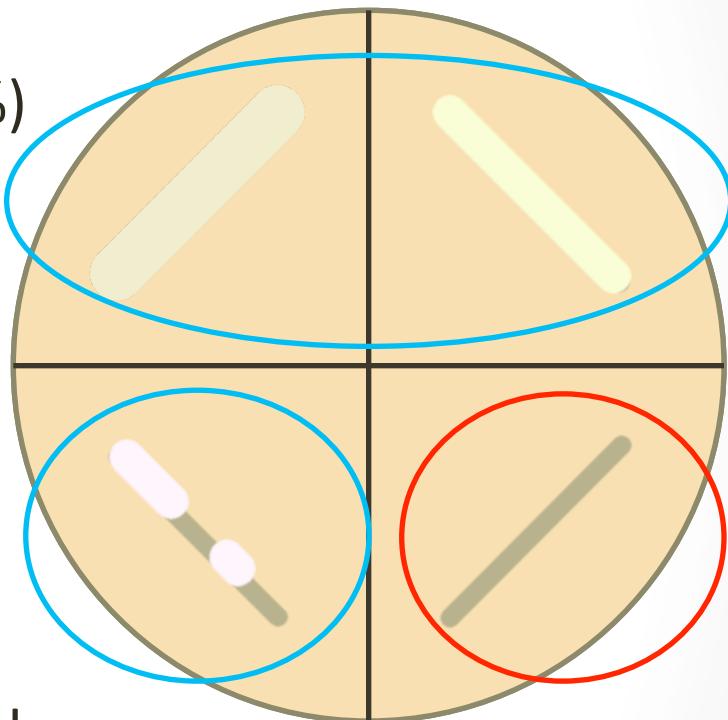
- Tea
 - Oxidation
 - Fermentation
 - Blended all
- Bacteria
 - 8 species from researchers' body surface



Methods

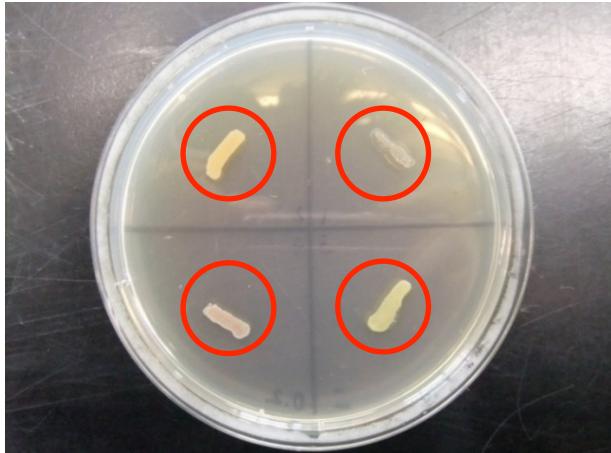
- Agar culture medium + tea extracts (1%, 4%, 10%, 25%)
- Bacteria were attached on the same lines.
- Incubated at 37°C for a day.
- Bacterial growths were examined with the eye.

Incompletely inhibited

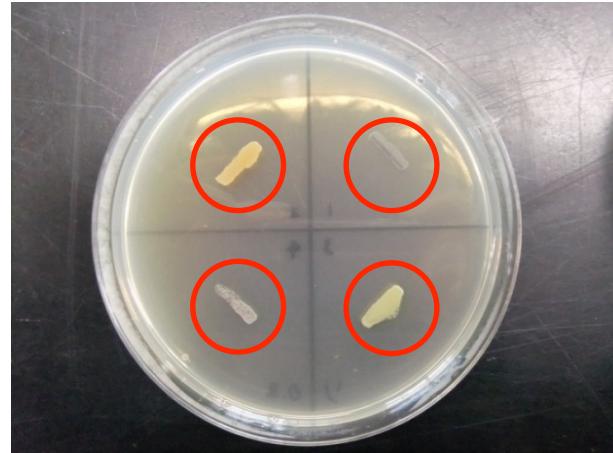


Completely inhibited

Results



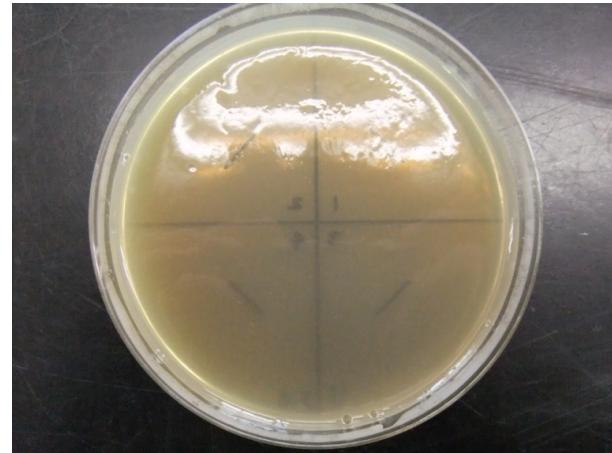
↑ 0%



↑ Green tea 4%

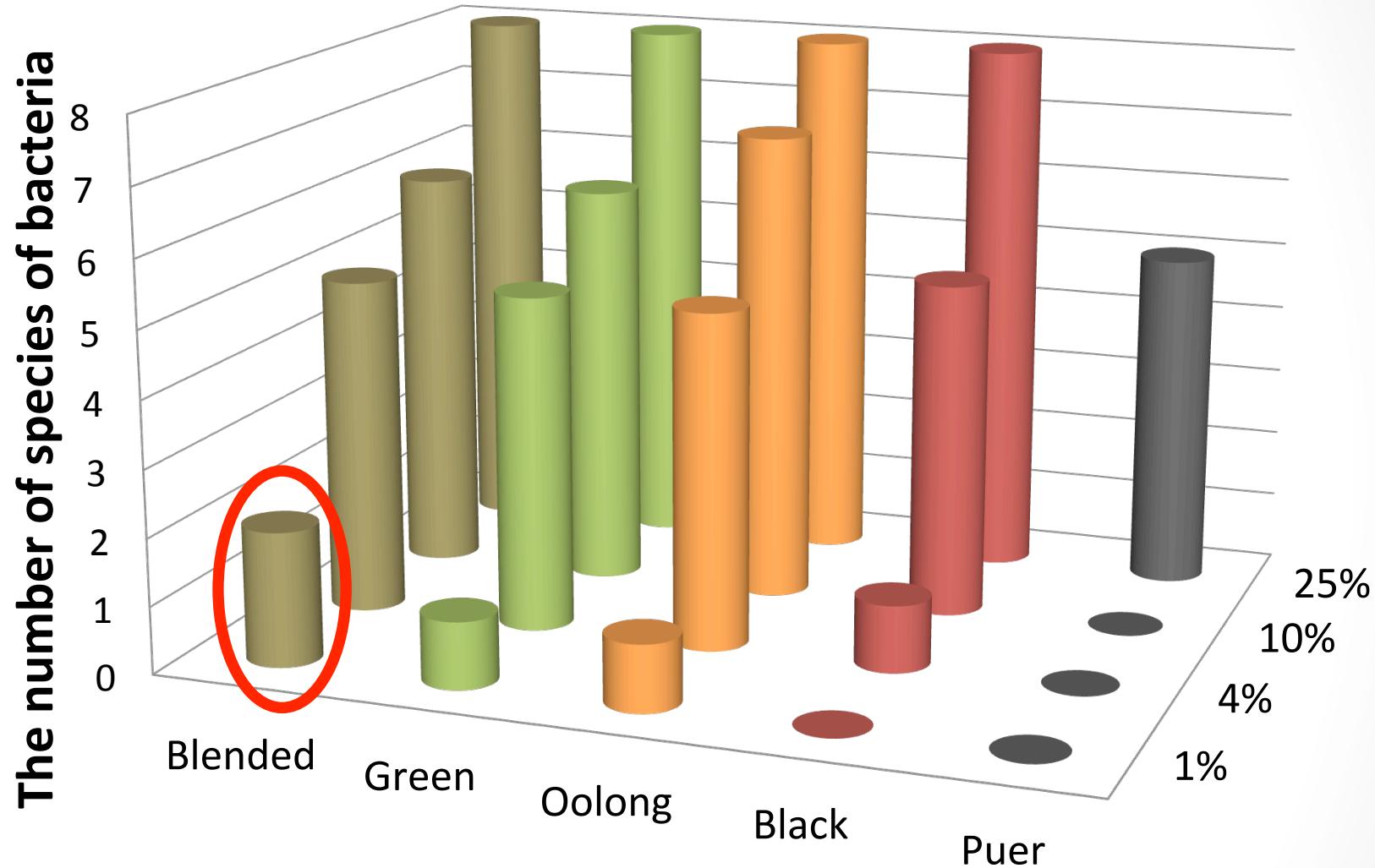


↑ Green tea 10%



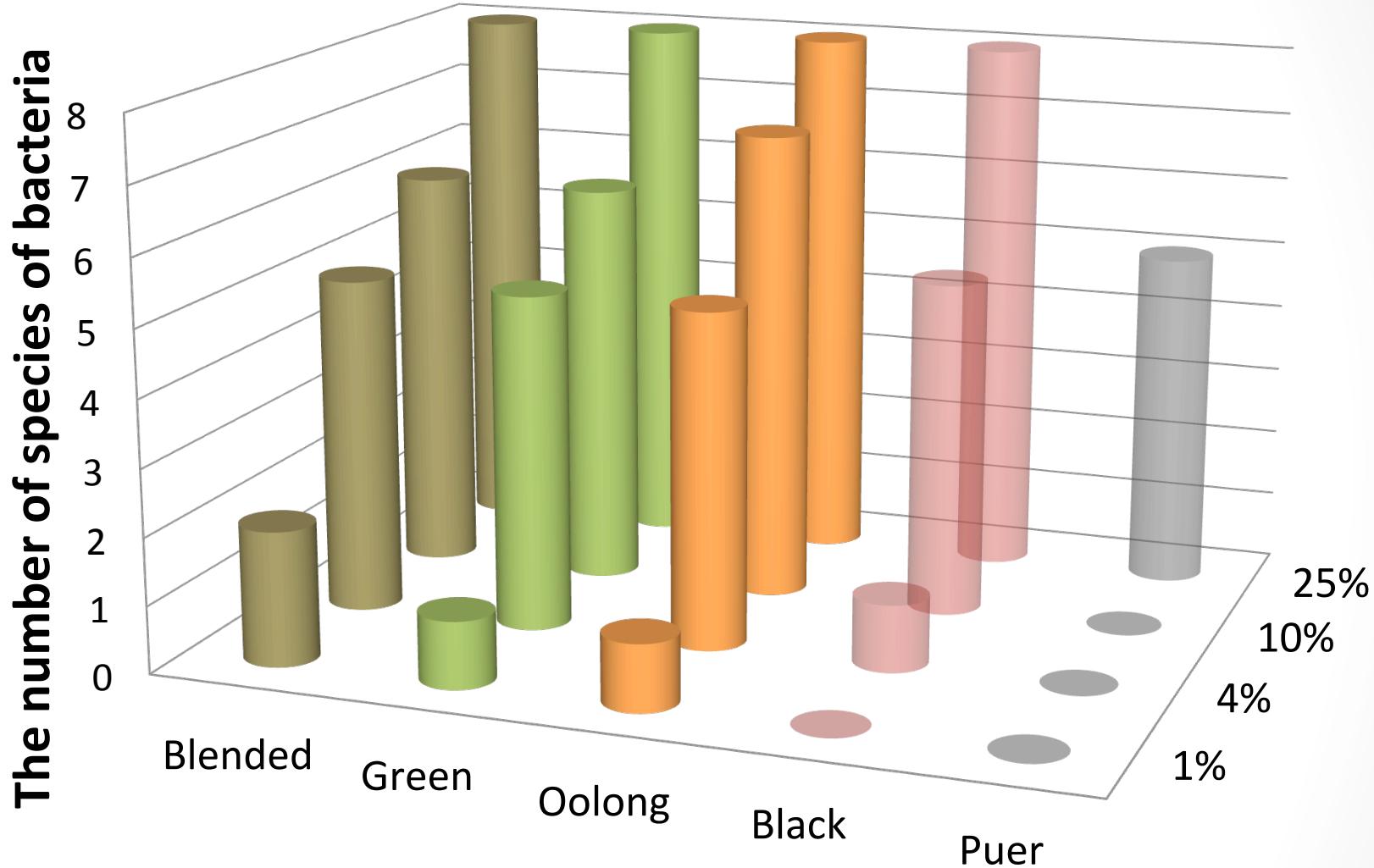
↑ Green tea 25%

Graph: the antibacterial effect of tea



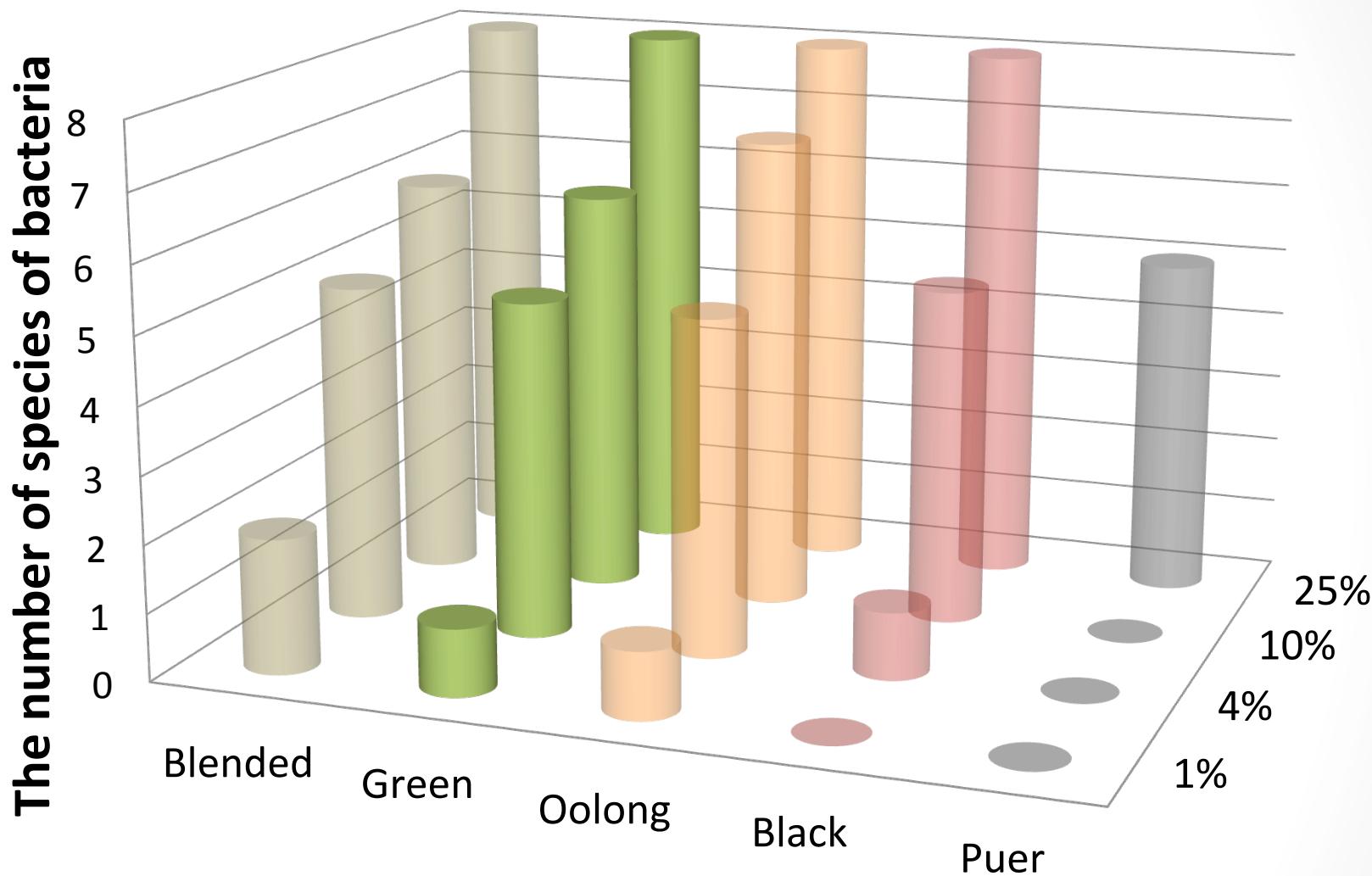
Heights: The number of species of bacteria which were completely inhibited their growth by tea.

Graph: the antibacterial effect of tea



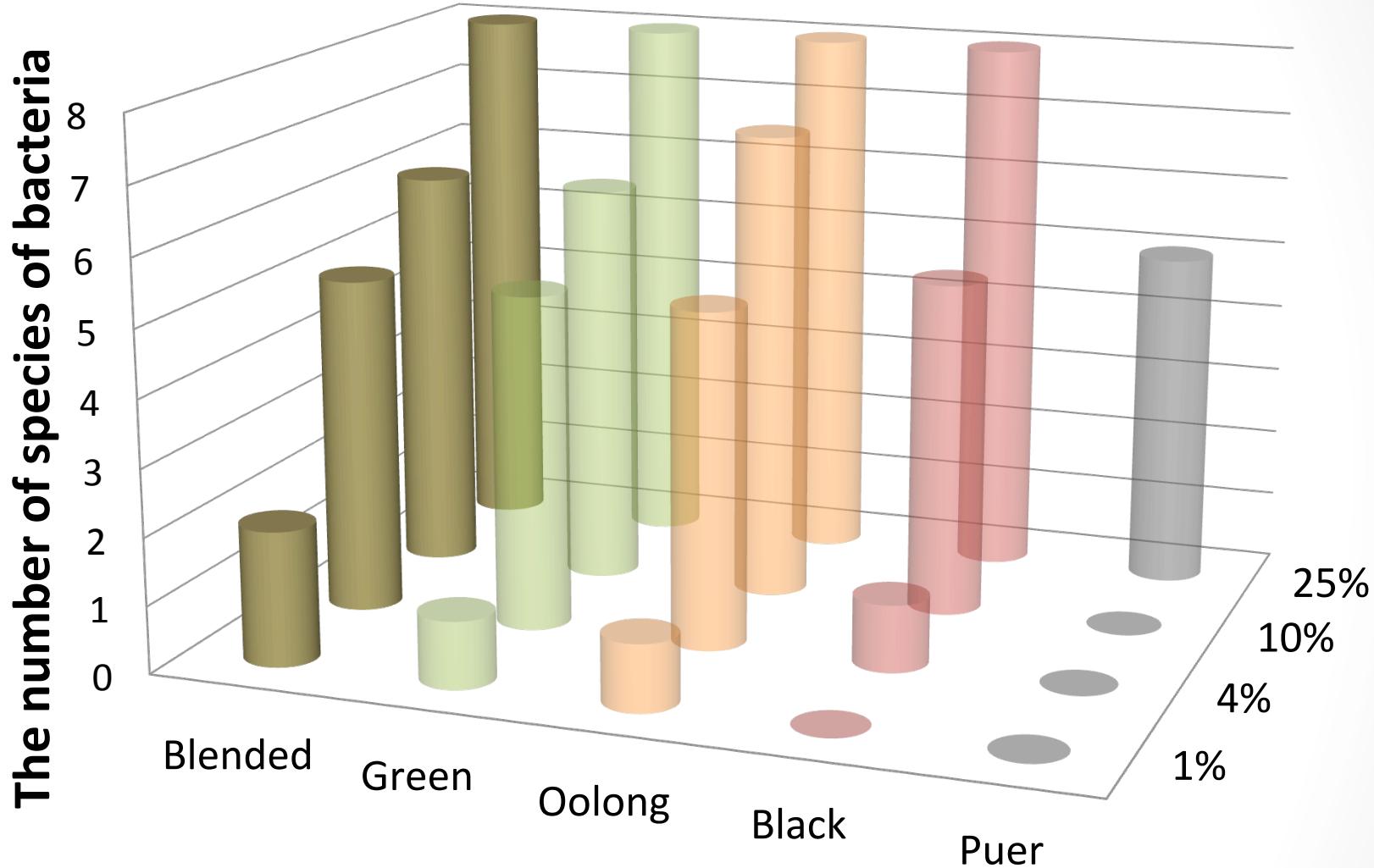
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Graph: the antibacterial effect of tea



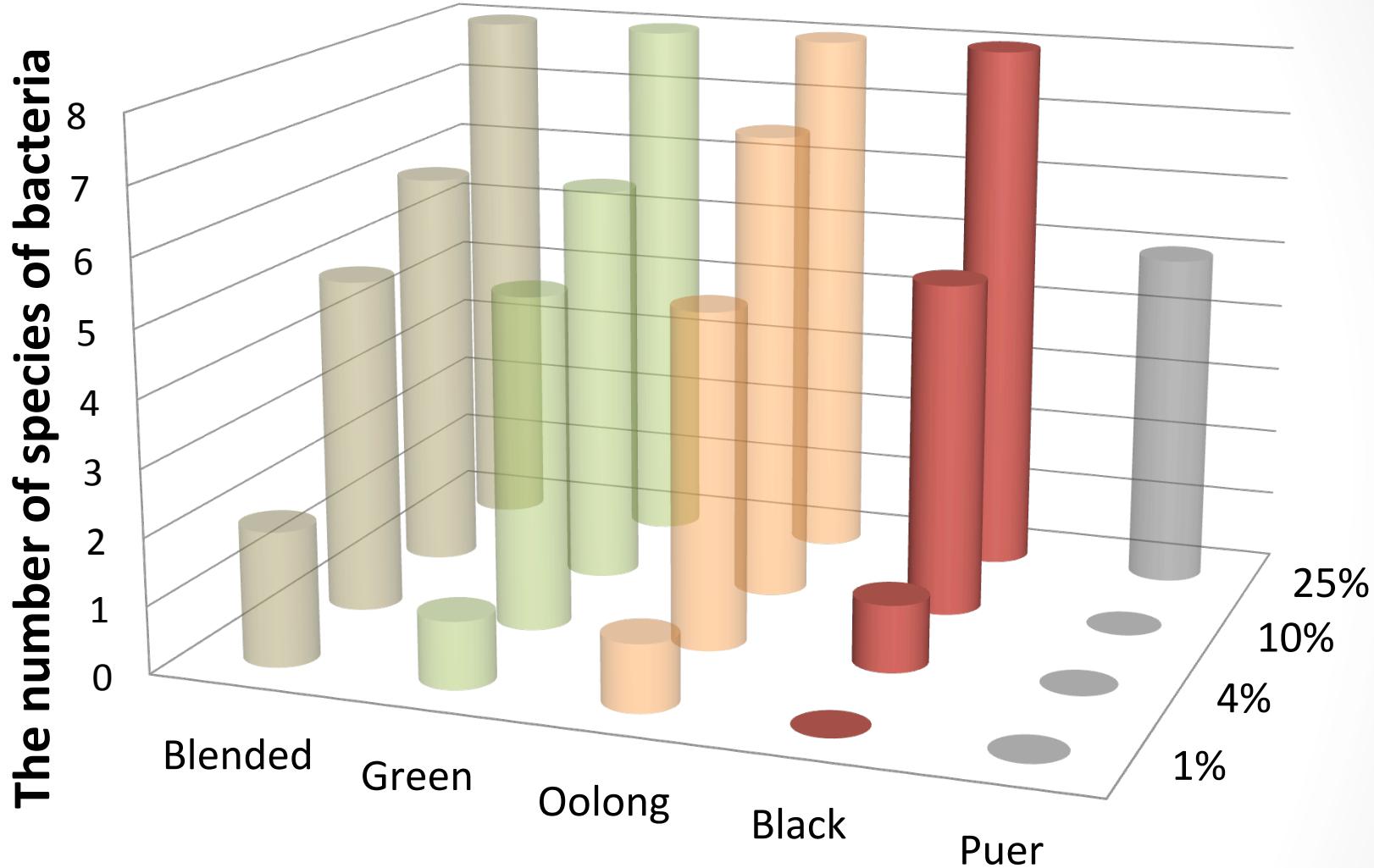
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Graph: the antibacterial effect of tea



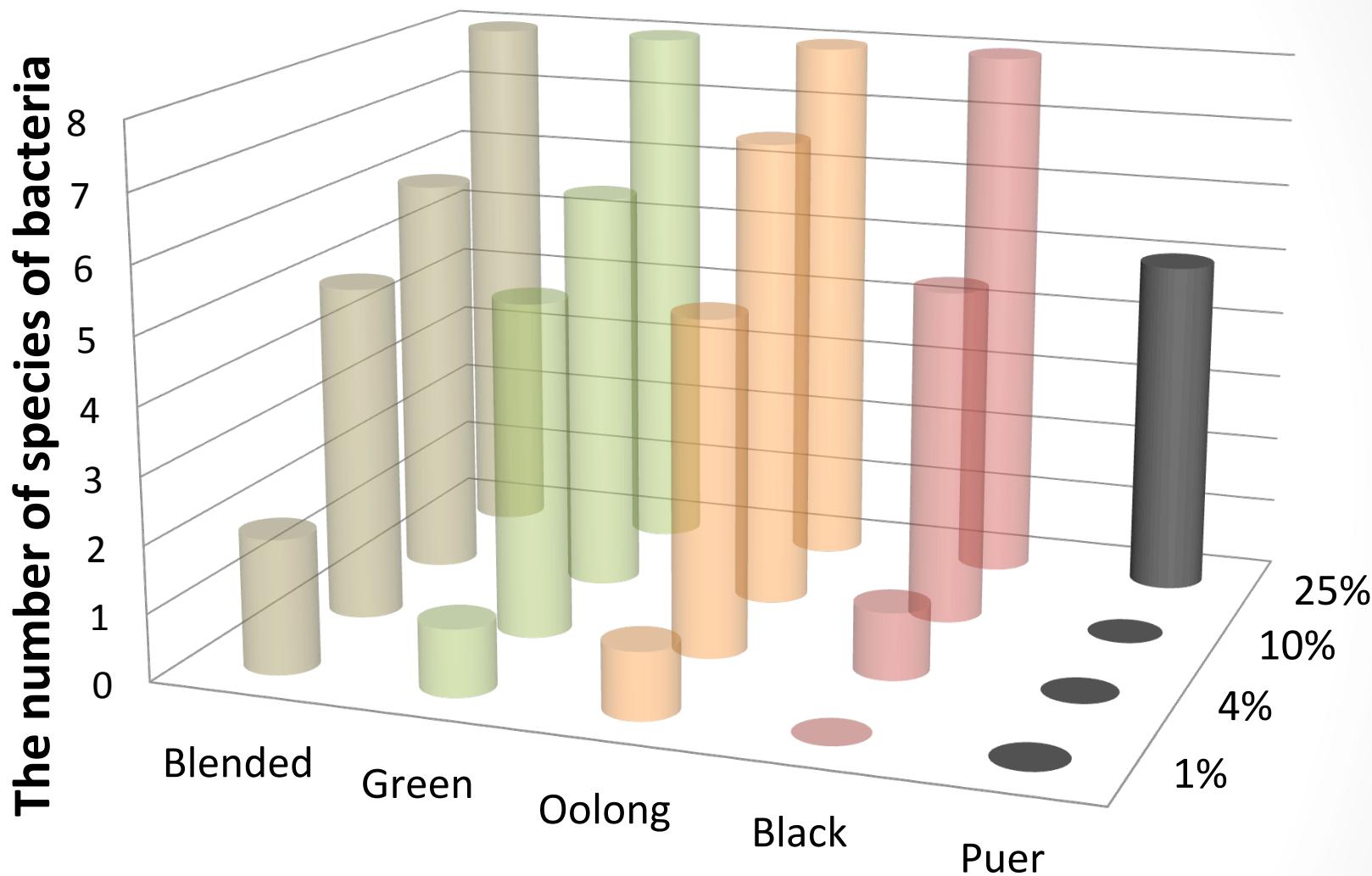
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Graph: the antibacterial effect of tea



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Heights: The number of species of bacteria which were completely inhibited their growth by tea.

Discussion

The Antibacterial Effect of Tea

Blended \rightleftharpoons Green \rightleftharpoons Oolong > Black > Pu'er

damage the effect

Oxidative Fermentation

Blended

Green

Oolong

Black

Pu'er

Conclusion

Oxidative fermentation **damages** the antibacterial effect of tea.

For future studies:

The effect of tea *in vivo*.

ex. Tea intake as [a treatment of disease.
cold. [a prevention of

Thank you for attention.