



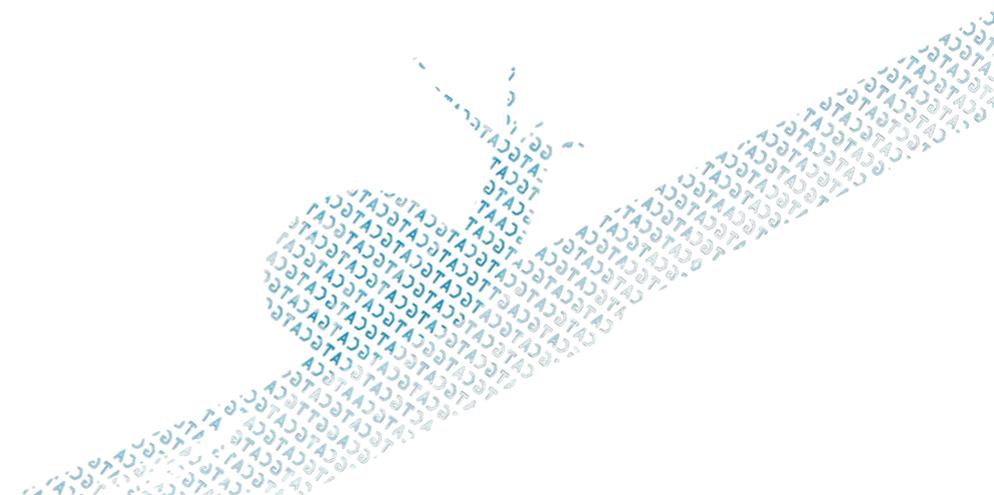
701-1425-00L - Genetic Diversity: Analysis

Literatur Discussion

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An Apple a Day: Which Bacteria Do We Eat With Organic and Conventional Apples?

Investigating the **apple fruit microbiota** resulted in profound **differences between the tissues, applicable for microbiota diversity, composition and abundance**. A significant **management effect** on the microbiota was furthermore apparent for all tissues, even for seeds. Organic and conventional apples are occupied by a similar quantity of microbiota; consuming the whole apple includes an approximate uptake of 100 million bacterial gene copy numbers. However, freshly harvested, **organically managed apples harbor a significantly more diverse, more even and distinct microbiota**, compared to conventional ones; the abundance of almost 40% of bacterial genera and orders differed significantly between organically and conventionally managed apples. Moreover, organic apples conceivably feature favorable health effects for the consumer, the host plant and the environment in contrast to conventional apples, which were found to harbor potential food-borne pathogens.

Wassermann et al. (2019) An Apple a Day: Which Bacteria Do We Eat With Organic and Conventional Apples? Frontiers in Microbiology. Volume 10 | Article 1629.

An apple carries about 100 million bacteria. Good luck washing them off.

According to the study, which was published this month in the journal *Frontiers of Microbiology*, a single apple contains about **100 million bacterial cells** — but if you toss out the **core**, you're only consuming about 10 million of these precious cells.

If you've been eating an apple a day to keep the doctor away but haven't been consuming the **core**, you are likely missing out on some of the **most beneficially nutritious parts of the apple**.

Escherichia-Shigella – a group of bacteria that includes known pathogens – was found in most of the conventional apple samples, but none from organic apples.

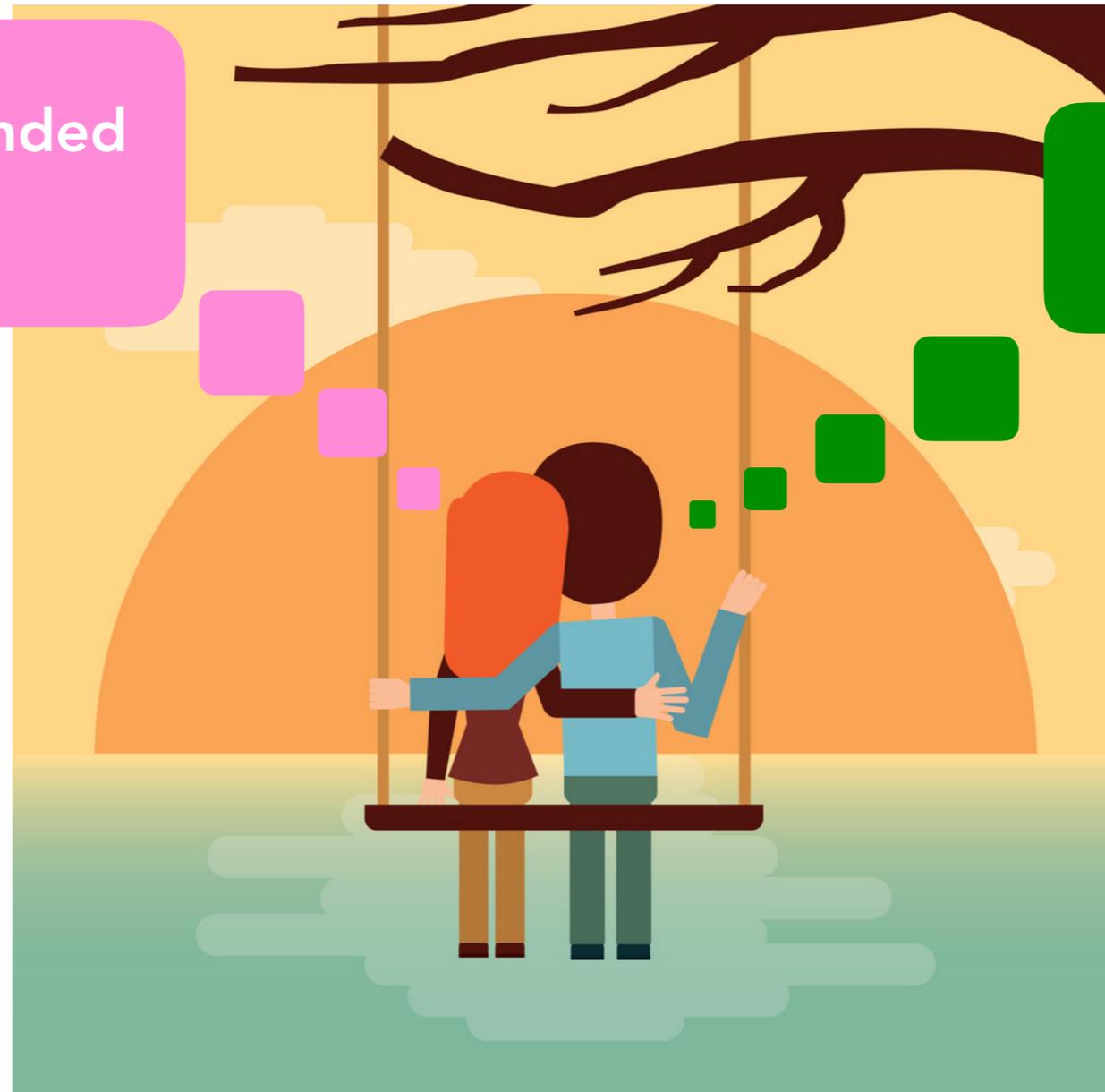


Swiss Gourmet / Arlet

- 🍏 What do you like about the article?
- 🍏 Can you find shortcomings?
- 🍏 What do you expect from the study?
- 🍏 Do you understand the sampling design?
- 🍏 Would you be able to reproduce the data analysis?
- 🍏 Where can you find the raw data?
- 🍏 Do you agree with the statistical tests applied?
- 🍏 Do you agree with the conclusions?
- 🍏 What are the main findings?
- 🍏 What do you think is missing?

What a splended
sunset!

She is so
beautiful.



What a
uncomfortable
plank!

She is so
beautiful.



What a wonderful sunset despite the somewhat uncomfortable seat!

She is so beautiful.

