

Analysing the Acceptability of Plant-based Milk and its Recipe Development on Sponge Cakes

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PLANT-BASED MILK (PBM)

In the past, the PBM market was unfamiliar to people. Citizens know about it because of their problems (LI, milk allergy). In recent years, people are aware of the reasons for a healthy life, environmental problems, vegan, and vegetarianism, which enables

factories to provide more PBM to the market.

Due to the trend, businesses do more promotion in supermarkets or through advertisements (Vaikma et al., 2021). People turn to try PBM, leading to the decrease sales of dairy milk.

RESEARCH OBJECTIVES

1. To evaluate the popularity and acceptability of PBM. (RQ1)
2. To examine the relationship among popularity, acceptability, health consciousness (HC), and influence by others (IBO). (RQ2)
3. To conduct recipe development and testing on making sponge cake. (RQ3)
4. To conduct the sensory analysis to evaluate consumer satisfaction and preference. (RQ4)

METHODOLOGY

Quantitative Analysis

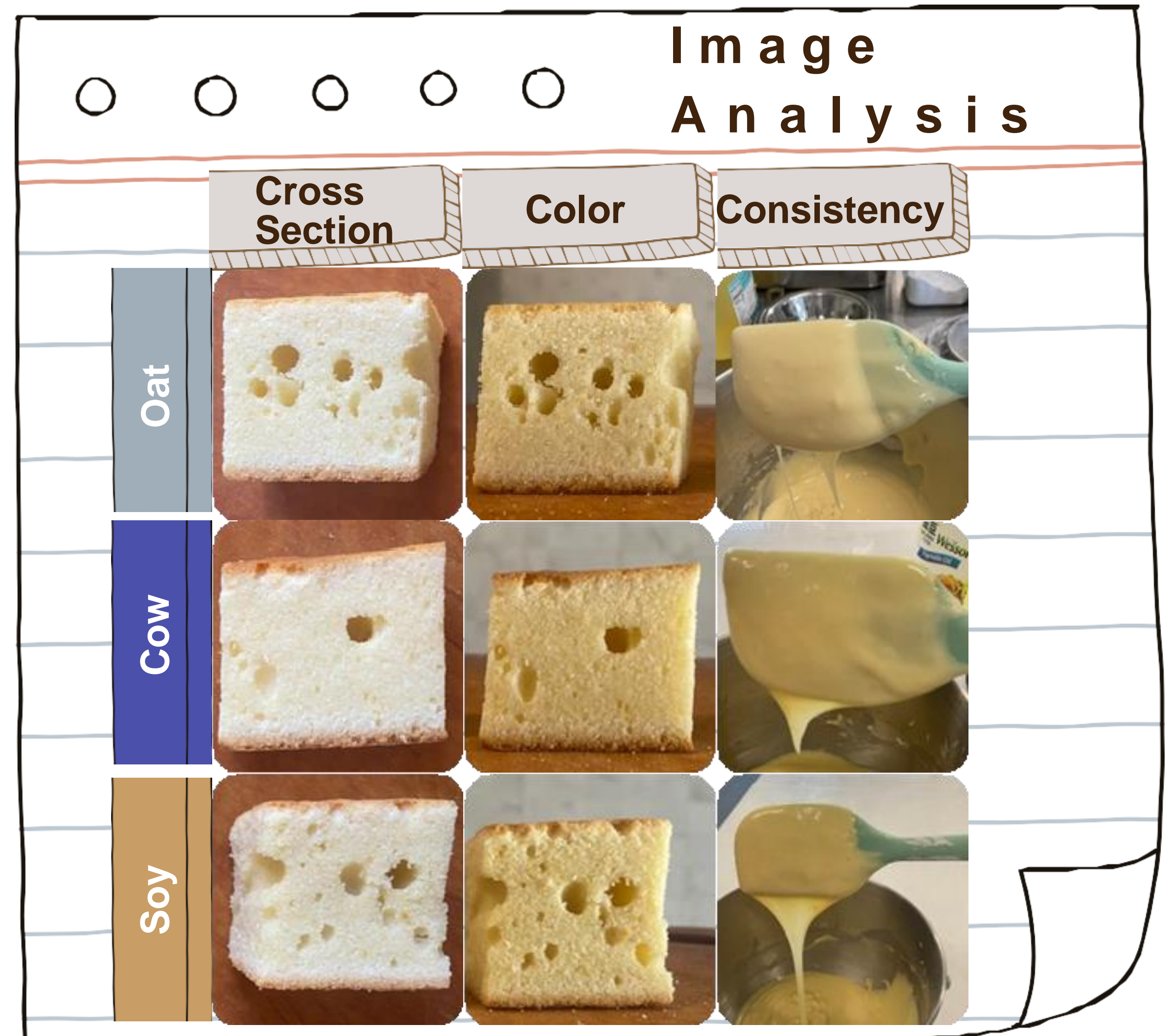
- Online survey for RQ1 and RQ2 with 161 responses.
- Sensory test for RQ4 with 42 responses.
- Correlation Analysis
- Regression Analysis
- Sensory Analysis

Qualitative Analysis



Recipe Testing

- Same recipe (with different milk)
- Same baking temperature / time



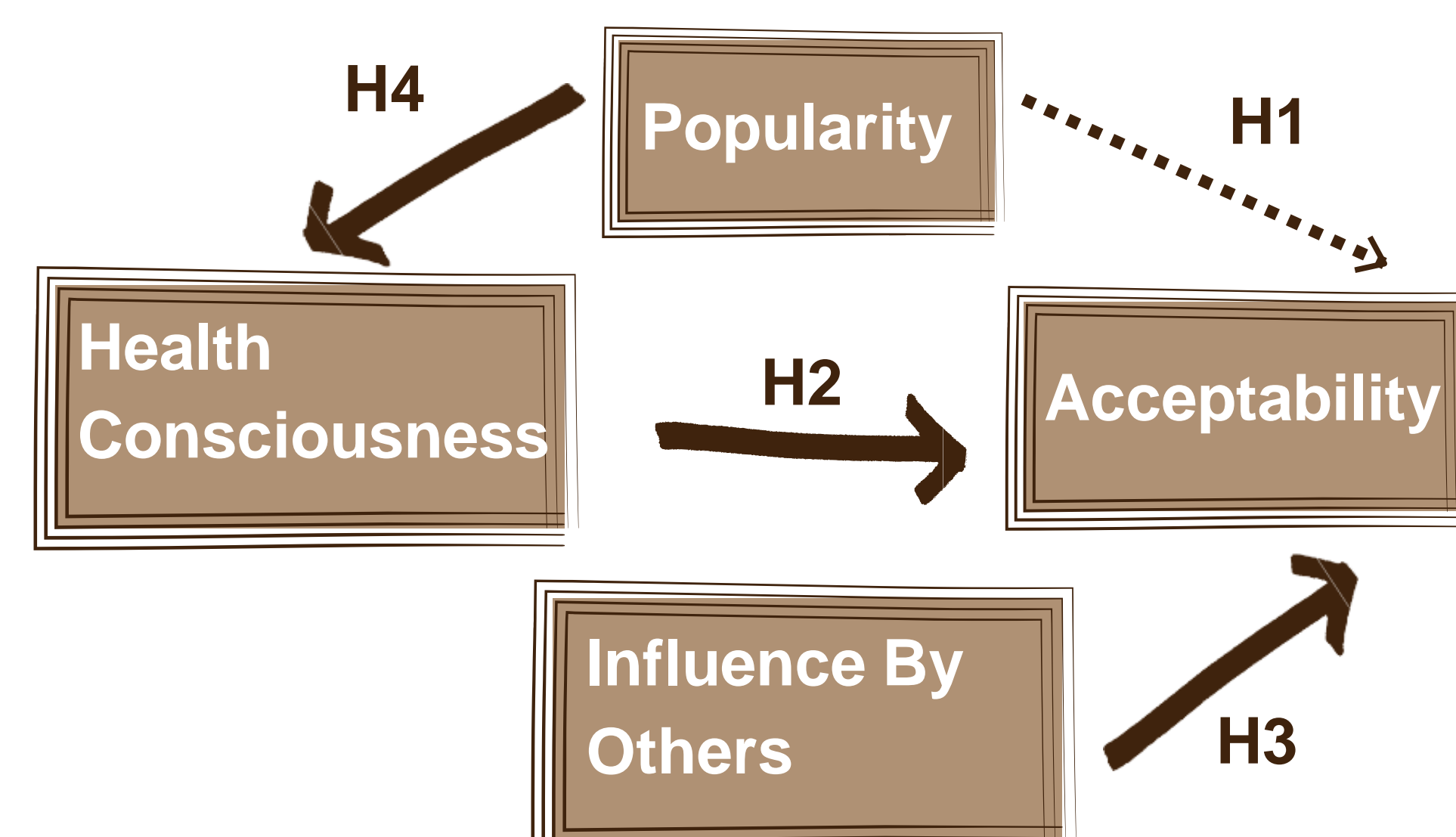
FINDINGS

For RQ4, the sensory test found that **soy milk cake** has the most favorable result. The table below shows what was examined among the samples.

	Color	Texture	Moisture	Flavor
O	Lightly yellow	Soft, suitable hole	Dry, without moist	A few sweetness of oat flavor
C	Yellow	Dense, less of holes	Slightly	Heavy milk flavor
S	Yellow, slightly brown	Soft, many holes	Sufficient	Sweet, with soy flavor

CONCLUSION

As a result of RQ1 & RQ2, popularity will affect HC (H4), but it not affect acceptability (H1), HC will affect acceptability (H2), and IBO will affect acceptability (H3).



RECOMMENDATION

To provide more insight to practitioners for product development on plant-based food options.