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This experiment aims to analyze the relationship between the epigenetic factors of aging and a phenotype-related environmental change, and diet are known to change the expression level of the LCT gene which produces the LHP enzyme responsible for digesting milk products in the enterocytes in the small intestine compared to mice without lactose in the small intestine can be suppressed by epigenetic factors such as aging. Therefore, this experiment will further explore how the mice that are fed a lactose-containing diet can maintain their LCT gene expression when they age. In addition, this experiment can also help determine which epigenetic factors (aging vs diet) are more likely to induce the change in LCT gene expression among mice. The result of the proposed experiment may support one of the hypotheses listed below.

Hypothesis 1: Epigenetic factors are more likely to induce the change in LCT gene expression than a diet.

Hypothesis 2: Diet is more likely to induce the change in LCT gene expression than age.

Hypothesis 3: Epigenetic factors and diet are equally likely to induce the change in LCT gene expression.

Conclusion: The results of this experiment will help determine which epigenetic factors (aging vs diet) are more likely to induce the change in LCT gene expression among mice.

Abstract: This experiment aims to analyze the relationship between the epigenetic factors of aging and a phenotype-related environmental change, and diet are known to change the expression level of the LCT gene which produces the LHP enzyme responsible for digesting milk products in the enterocytes in the small intestine compared to mice without lactose in the small intestine can be suppressed by epigenetic factors such as aging. Therefore, this experiment will further explore how the mice that are fed a lactose-containing diet can maintain their LCT gene expression when they age. In addition, this experiment can also help determine which epigenetic factors (aging vs diet) are more likely to induce the change in LCT gene expression among mice. The result of the proposed experiment may support one of the hypotheses listed below.

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