

## SOY BEVERAGE, BUT NOT MILK, AFFECTS OMEGA-3 FATS PRODUCTION

### RATIONALE OF THE PROJECT

 Milk and soy beverage provide a broad range of nutrients important for human health, however consumption habits have changed in recent years:

MILK CONSUMPTION



HAS DECREASED OVER
THE PAST DECADE







- According to studies in animals, soy protein suppresses the production of omega-3 fats compared to milk protein.
- Omega-3 fats are a type of polyunsaturated fat (PUFA) involved in many biologically important processes. Some examples of omega-3 PUFA are EPA and DHA.
- Low levels of EPA and DHA in the body are associated with an increased risk of cardiovascular disease, mental health disorders and COVID-19 illness.

### METHODS USED

Data from the Toronto Nutrigenomics and Health Study were analyzed:
 FAT LEVELS IN BLOOD

1,083 YOUNG ADULTS







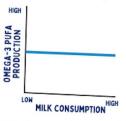




 Participants were grouped into 4 different categories depending on their soy beverage and milk consumption habits.

> KEY STUDY RESULTS

- A neutral effect on omega-3 PUFA production was observed in subjects who consumed milk.
- Those who consumed soy beverage had lower levels of omega-3 PUFA.





# POTENTIAL CLINICAL IMPACT

 A reduction in omega-3 PUFA production in individuals consuming a diet deficient in omega-3 PUFA could be detrimental. This is important because:

LESS THAN





 If you consume soy beverage regularly, consult with your dietitian about how to get enough omega-3 PUFA in your diet

#### RELATED PUBLICATIONS

