**WHAT ARE HMOs?**
Unique prebiotics found in human milk | Food for beneficial bacteria in the infant’s gut | 3rd most abundant solid component of human milk

**COMPONENTS OF HUMAN MILK**
Major nutritional components of human milk are: protein, carbohydrates, and lipids.

**HUMAN MILK**
- WATER
- MACRONUTRIENTS
- LACTOSE
- LIPIDS
- CARBOHYDRATES
- HUMAN MILK OLIGOSACCHARIDES

**2'-FL HMO**
- Approximately 75-85% of mothers secrete 2'-FL HMO in their breast milk.
- 2'-FL added to formula has the identical structure as 2'-FL in human milk.
- Prebiotics—food for beneficial bacteria.
- In a clinical trial, 2'-FL has been shown to help in immune support by closing multiple gaps in immune function between formula-fed and breast-fed infants.

**PREBIOTICS & MORE**
Emerging research indicates potential multifunctional benefits:
- **COGNITION**
  - Learning & memory
  - Long-term potentiation
  - Brain molecular markers
- **IMMUNE SUPPORT**
  - Pathogen receptor decoy
  - Reduced symptoms of food allergy
  - Immune modulation
- **GI TOLERANCE**
  - Prebiotic
  - Gut motility

**EARLY IMMUNE DEVELOPMENT**
70% of the immune system is in the digestive tract, and prebiotics support colonization of the gut which helps support immune system development.

**BENEFITS OF 2'-FL HMO EXPAND BEYOND THE GUT TO SUPPORT THE IMMUNE SYSTEM.**
- A small portion of 2'-FL HMO ingested is absorbed in the infant’s intestine and reaches the systemic circulation.
- In a clinical study, 2'-FL HMO was shown to lower levels of multiple inflammatory cytokines to be more like levels in breastfed infants.
- In a clinical study of infants fed formula with 2'-FL HMO, two markers of immune function associated with the severity of a respiratory infection (RSV) were more like breastfed infants than infants fed the same formula without 2'-FL HMO.

*As measured by circulatory inflammatory cytokines in a clinical study

**SUPPORTING EVIDENCE**
>50 PUBLICATIONS
provide preclinical and clinical evidence identifying the role of HMOs in health & development. (1995-2023)

*Refer to references

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