

## **Role of Human Milk Oligosaccharides (HMOs) in Epigenetic Modulation of Bacterial Pathogen in Infant and Toddler**

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**Abstract :** Human milk oligosaccharides (HMOs) are complex carbohydrates. They are 3rd most abundant solid component found in breast milk, after lactose and lipids. HMO has profound beneficial health benefit effects on infants and toddlers. They have diverse roles, in immuno-modulation, development of neonatal gut, influencing the commensal microbiota of developing gut, and anti-inflammatory functions. HMOs, gut and commensal microbiota of the gut work synergistically to bring positive impact on infant and toddler health. HMO influences the gut-brain axis, maintains good mental health and cognitive function and inhibits neuronal inflammation. HMOs are now applied in infant nutrition, and supplementation of HMOs in infant formula is a promising innovation for infant nutrition.

**Keywords :** HMO's, gut, epigenetic modulation, bacteria

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