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Colonization of breastfed infants by *Bifidobacterium longum* subsp. *infantis* EVC001 reduces virulence gene abundance.

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ABSTRACT

The infant gut microbiome is rapidly colonized by bacteria from the environment after birth, and this gut ecosystem can facilitate expansion of potential pathogens. Human milk shapes the infant gut microbiome and has evolved to foster the growth of specific bacteria. Breastfed infants also fed the coevolved infant gut symbiont *Bifidobacterium longum* subsp. *infantis* EVC001 had significant modifications to their gut metagenome, including a decreased number of virulence factor genes.

Keywords

Bifidobacterium longum subsp. *infantis* EVC001

Gut microbiome

Human milk

Infants

Virulence factors

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