

Further reading



General publications on HMOs and breast milk

- Andreas, NJ** et al. (2015) *Early Hum Dev* 91(11):629-35
[Human breast milk: A review on its composition and bioactivity](#)
- Bode, L.**, (2012) *Glycobiology*, Sep;22(9):1147-62
[Human milk oligosaccharides: every baby needs a sugar mama](#)
- Coppa, G. V.**, et al. (1999) *Acta Paediatr Suppl* Aug;88(430):89
[Oligosaccharides in human milk during different phases of lactation](#)
- Goehring, K. C.**, et al. (2014) *PLoS One* Jul 7;9(7)
[Direct evidence for the presence of human milk oligosaccharides in the circulation of breastfed infants](#)
- Hennet, T.**, et al. (2016), *Trends Biochem Sci* 41(6):508-18
[Breastfed at Tiffany's](#)
- Hennet, T.**, et al. (2014) *Swiss Med Weekly* Feb 19;144
[Decoding breast milk oligosaccharides](#)
- Jantscher-Krenn, E.**, et al. (2012) *Minerva Pediatrica* Feb;64(1):83
[Human milk oligosaccharides and their potential benefits for the breast-fed neonate](#)
- Kunz, C.**, (2012) *Adv Nutr* vol. 3: 430S
[Historical aspects of human milk oligosaccharides](#)
- Newburg, D. S.**, (2013) *Biochemistry*, Vol. 78, No. 7
[Glycobiology of human milk](#)
- Rudloff, S.**, et al. (2012) *Advances in Nutrition*
[Milk oligosaccharides and metabolism in infants](#)
- Thurl, S.**, et al. (2017) *Nutr Rev*. Nov 1;75(11):920
[Systematic review of the concentrations of oligosaccharides in human milk](#)
- Urashima, T.**, et al. (2012) *Adv Nutr* May 1;3(3):473S
[The predominance of type I oligosaccharides is a feature specific to human breast milk](#)

Preclinical safety studies

- Coulet, M.** et al. (2014), *Regul Toxicol Pharmacol*. Feb;68(1):59-69
[Pre-clinical safety evaluation of the synthetic human milk, nature-identical, oligosaccharide 2'-O-Fucosyllactose \(2'FL\).](#)
- Coulet M.** et al. (2013), *Food Chem Toxicol*. Dec;62:528
[Pre-clinical safety assessment of the synthetic human milk, nature-identical, oligosaccharide Lacto-N-neotetraose \(LNnT\).](#)
- Hanlon, PR**, et al. (2014), *Food Chem Toxicol*. Dec;74:343-8
[A 3-week pre-clinical study of 2'-fucosyllactose in farm piglets.](#)

Clinical studies

- Elison, E** et al. (2016) *Br J Nutr* Oct;116(8):1356-1368
[Oral supplementation of healthy adults with 2'-O-fucosyllactose and lacto-N-neotetraose is well tolerated and shifts the intestinal microbiota.](#)
- Goehring, K. C.** et al. (2016) *J Nutr*. Dec; 146 (12): 2559
[Similar to Those Who Are Breastfed, Infants Fed a Formula Containing 2'-Fucosyllactose Have Lower Inflammatory Cytokines in a Randomized Controlled trial](#)
- Marriage, BJ**, (2015) *J Pediatr Gastroenterol Nutr*. Dec; 61 (6): 649
[Infants Fed a Lower Calorie Formula With 2'FL Show Growth and 2'FL Uptake Like Breast-Fed Infants.](#)
- Puccio, G.**, et al. (2017), *J Pediatr Gastroenterol Nutr*. 2017 Apr;64(4):624
[Effects of Infant Formula With Human Milk Oligosaccharides on Growth and Morbidity: A Randomized Multicenter Trial.](#)

Application and mechanism focussed publications

Bienenstock, J., et al. (2013) PLoS One Oct 2;8(10):

[Fucosylated but not sialylated milk oligosaccharides diminish colon motor contractions](#)

Bode, L., (2012) Glycobiology, Sep;22(9):1147-62

[Human milk oligosaccharides: every baby needs a sugar mama](#)

Bode, L., (2015), Early Hum Dev. Nov;91(11):619

[The functional biology of human milk oligosaccharides.](#)

Caplan, MS, et al. (2017), Nat Rev Gastroenterol Hepatol. Jul; 14 (7): 394

[Paediatrics: Are human milk oligosaccharides the magic bullet for necrotizing enterocolitis?](#)

Craft, KM, et al. (2017), ACS Infect Dis. 2017 Nov 15

[The Human Milk Glycome as a Defense Against Infectious Diseases: Rationale, Challenges, and Opportunities.](#)

Donovan, SM, (2017) J Nutr. Sep;147 (9): 1605

[Human Milk Oligosaccharides: Potent Weapons in the Battle against Rotavirus Infection.](#)

Hamilton, MK, et al. (2017) Am J Physiol Gastrointest Liver Physiol. May 1; 312(5): G474

[Prebiotic milk oligosaccharides prevent development of obese phenotype, impairment of gut permeability, and microbial dysbiosis in high fat-fed mice.](#)

He, Y., et al. (2016), Adv Nutr. Jan 15;7(1):102

[Human Milk Components Modulate Toll-Like Receptor-Mediated Inflammation.](#)

Jeong, K., et al. (2012), BMB Rep. Aug;45(8):433

[Human milk oligosaccharides: the novel modulator of intestinal microbiota.](#)

Kulinich, A., et al. (2016), Carbohydr Res. Sep 2;432:62

[Human milk oligosaccharides: The role in the fine-tuning of innate immune responses.](#)

Oliveros, P., et al. (2016) J Nutr Biochem. May;31:20

[Oral supplementation of 2'-fucosyllactose during lactation improves memory and learning in rats.](#)

Pacheco, AR, et al. (2015), Annu Rev Anim Biosci.;3:419

[The impact of the milk glycome on the neonate gut microbiota.](#)

Seppo, AE, et al. (2017), J Allergy Clin Immunol. Feb;139(2):708

[Human milk oligosaccharides and development of cow's milk allergy in infants.](#)

Thongaram, T., et al. (2017), J Dairy Sci. Oct; 100 (10): 7825

[Human milk oligosaccharide consumption by probiotic and human-associated bifidobacteria and lactobacilli.](#)

Vazquez, E., et al. (2016) PLoS One. Nov 16;11(11)

[Dietary 2'-Fucosyllactose Enhances Operant Conditioning and Long-Term Potentiation via Gut-Brain Communication through the Vagus Nerve in Rodents.](#)



Glycom A/S

Kogle Alle 4, 2970 Hørsholm, Denmark

+45 (0) 8830 9500 • glycare@glycom.com • www.glycom.com