Special Issue

Milk Oligosaccharides: Biological Functions and Application Prospects

Message from the Guest Editor

Milk oligosaccharide fraction (MO) is the third largest constituent of mammalian milk and colostrum, following lactose and lipids. Since the first individual human milk oligosaccharide (HMO) was characterized in 1930, the biological significance of MO, especially HMO, has been explored continuously. Additionally, infant nutrition, biological functions and structural diversity among mammalian species still gain significant attention, with primary research into balancing infants' gut microbiota as a prebiotic, the utilization of antiadhesives as anti-infection agents, and deploying immune system modulators and nutrients for brain development. In addition to these common functions, the heterogeneity and diversity of MO in most mammals studied thus far indicate they may serve different physiological significances. This Special Issue aims to present the main lines of MO from new species, highlight new aseptic methods, and share future perspectives of MO biological function.

Guest Editor

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Deadline for manuscript submissions

31 July 2026

Biology

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed

mdpi.com/si/190439

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