## WHY IS GUT MICROBIOTA IMPORTANT?

A healthy gut microbiota contains a balanced composition of many classes of bacteria that have health-promoting functions

Helps the body to **digest** certain foods e.g. dietary fibre<sup>1,2</sup>

Produces some **vitamins** e.g. B12, folate and K<sup>1</sup>

Regulates energy **metabolism**<sup>1,2</sup>

Defends against harmful microorganisms<sup>1,2</sup>

Provides **signals** for the development and function of the immune system<sup>1,2</sup>

Influences **gut-brain** communication for optimal gut and brain functions<sup>1,2</sup>

## IMBALANCES IN GUT MICROBIOTA HAVE BEEN LINKED TO:

Asthma and allergy<sup>2,3</sup>



**Infantile colic** and functional **gastrointestinal** disorders<sup>3</sup>



Infections<sup>2,3</sup>

Obesity and associated metabolic disturbances<sup>2,3</sup>



**Inflammatory bowel** disorders<sup>3</sup>

Aberrant behaviour and autism spectrum disorders<sup>3</sup>

## The gut microbiota builds up after birth, the right nutrition plays a crucial role in the creation of a balanced microbiota<sup>4</sup>



LIFE-TRANSFORMING NUTRITION

1. Shamir R, van Elburg R, Knol J, Dupont C. Gut Health in Early Life: Significance of the Gut Microbiota and Nutrition for Development and Future Health. Essential Knowledge Briefing, Wiley, Chichester (2015). 2. Van de Wiele T et al. *Nature Reviews Rheumatology*, 12:398–411, 2016. 3. Collado MC et al. *Gut Microbes*, 3(4): 352-65, 2012. 4. Lozupone et al. *2012 Nature*;489:220-30