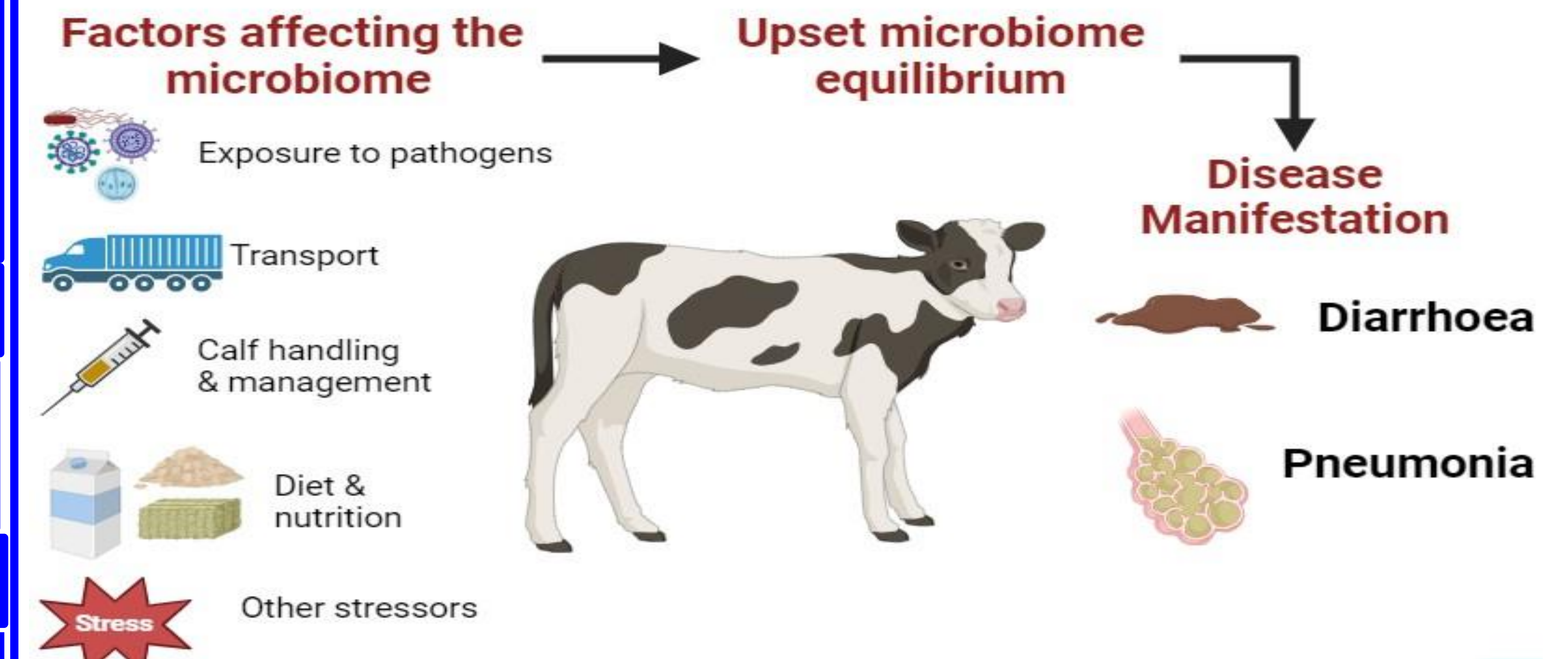
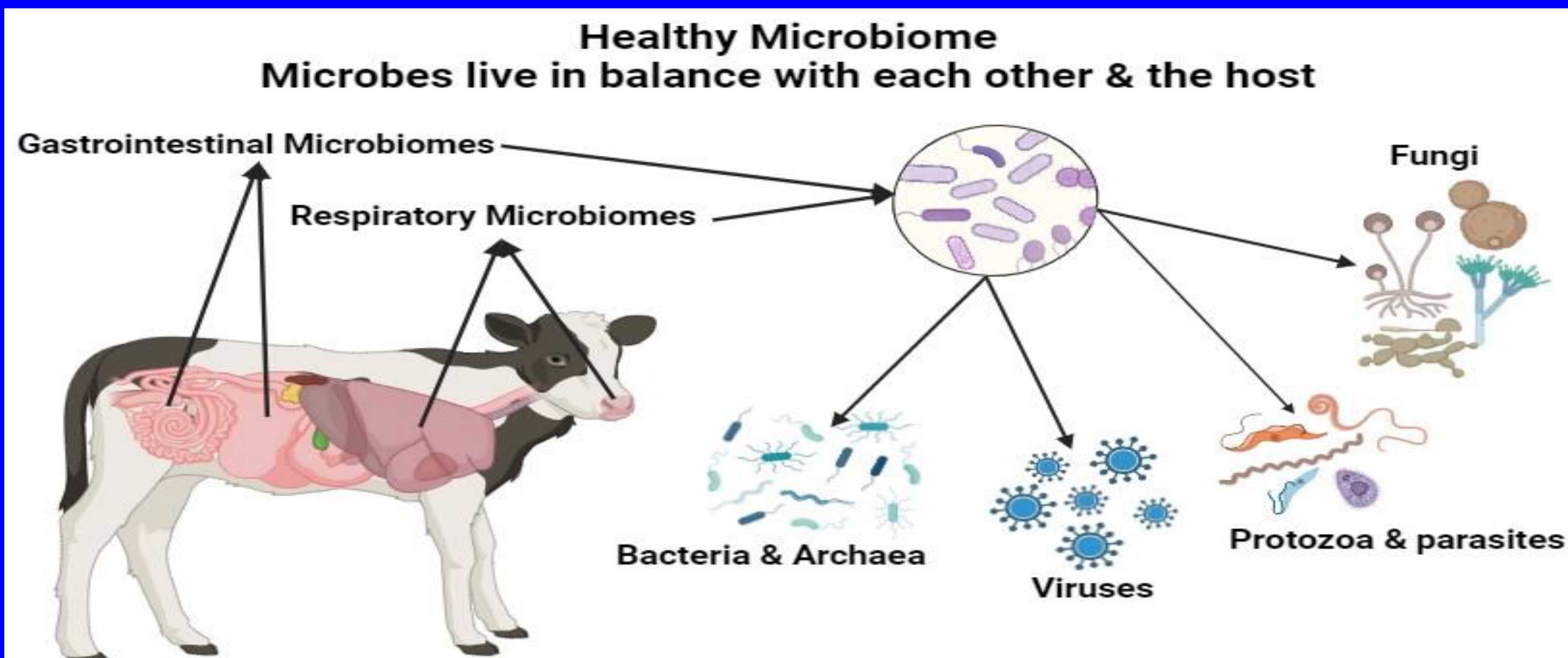


**HoloRuminant** a Horizon Europe funded research project aims to determine how microbial populations, residing in the gut and respiratory tracts and other locations in cattle, affect performance, health, welfare & the environment

## What is a 'microbiome'

*A community of microorganisms in a particular environment i.e. colon or lungs*

## Microbiomes important to calf health



## Take home messages

- Microbiomes, established in the first weeks of life, are influenced by both genetics and environment
- Diverse and stable microbiomes are essential for long-term animal health and well-being
- Microbiomes play a significant role in both respiratory and diarrhoeal disease