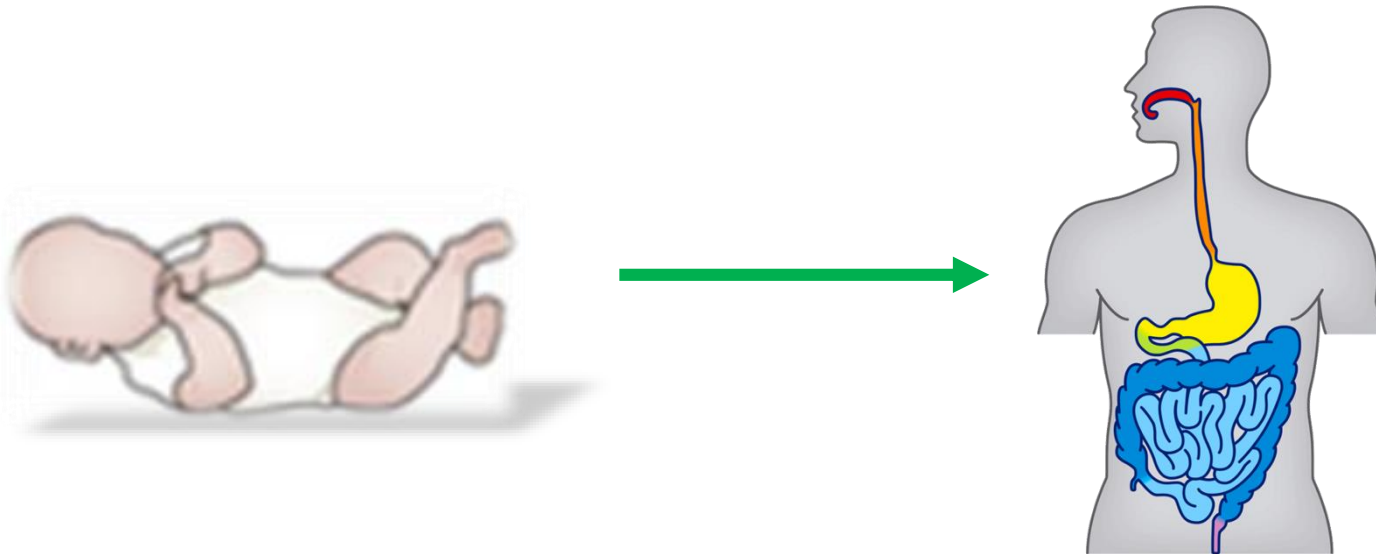


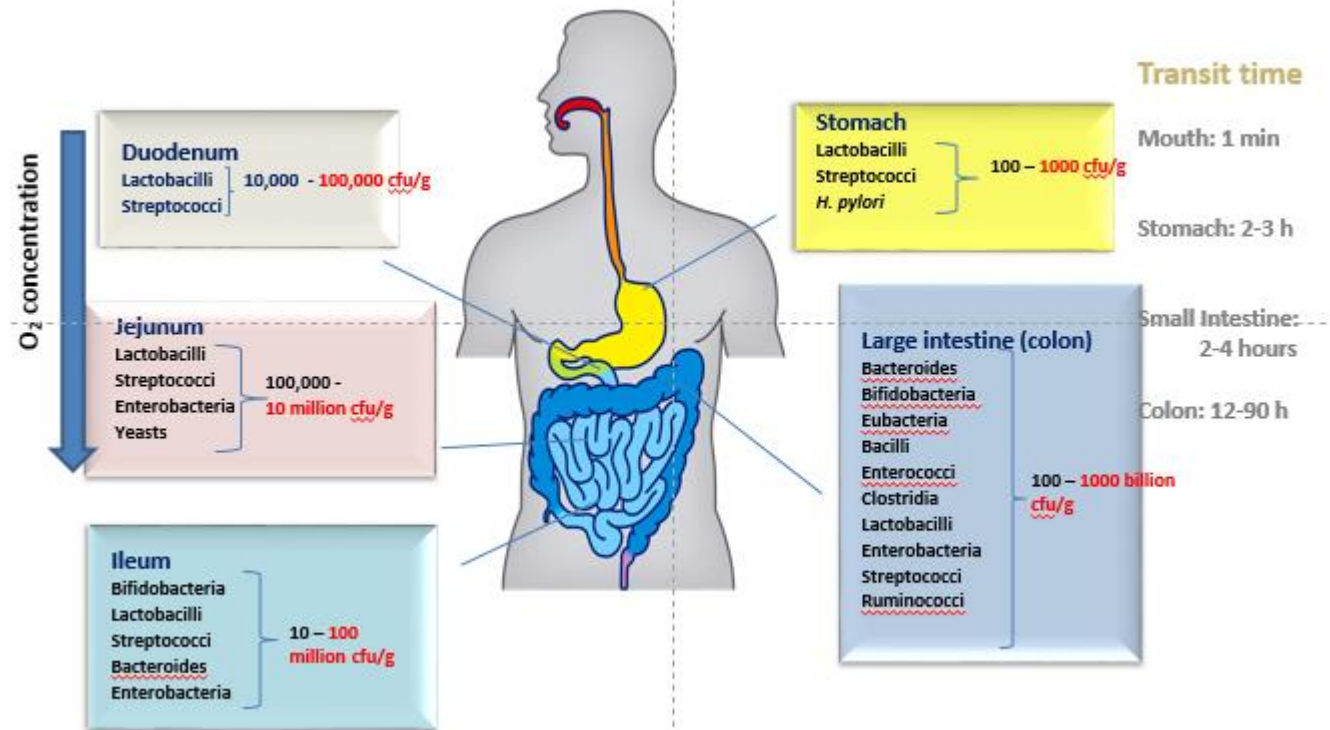
ProVen: Microbiota

The Normal Human Microbiota – Infant to Adult

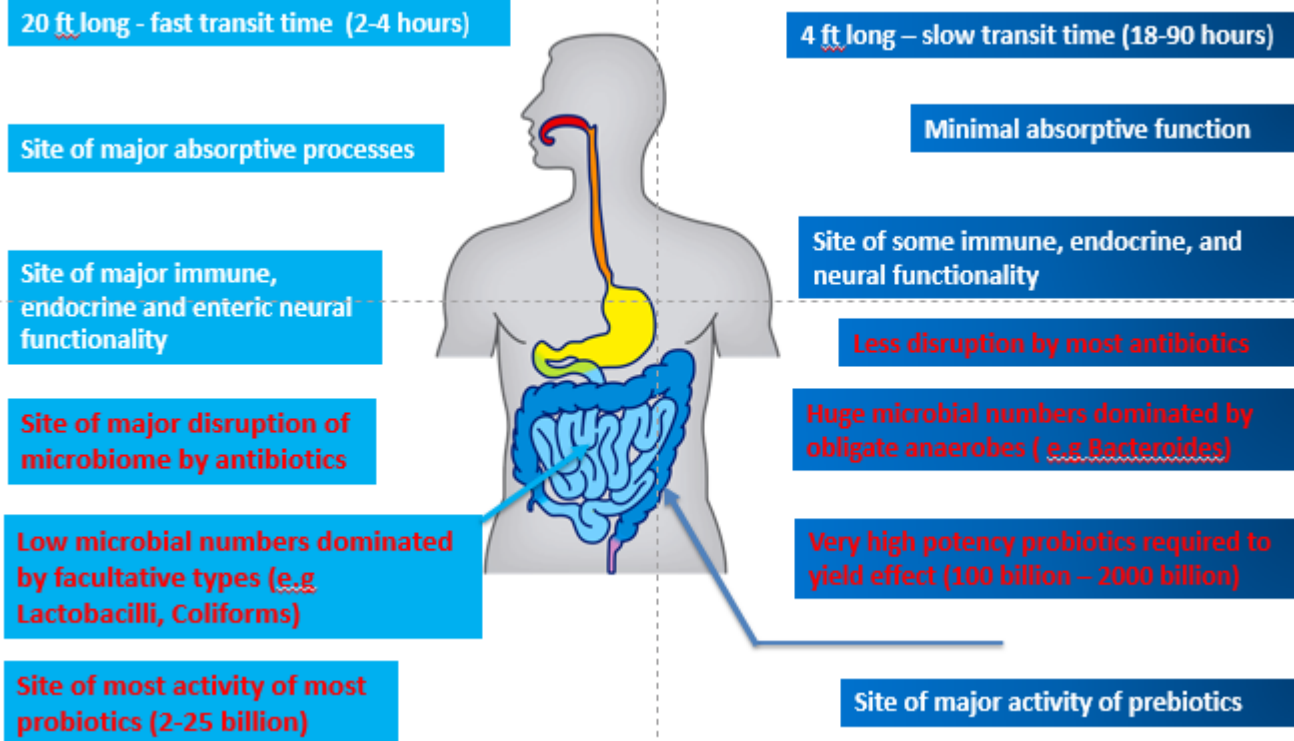
The intestinal microbiota acquires adult characteristics and is fully formed by two-three years of age. This process is driven by epigenetic factors and the intake of major food groups by this age.



Typical Microbiota of the Adult Gastrointestinal Tract



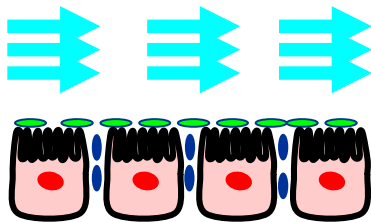
The Gut Microbiome – The Small/Large Intestinal Split



Why are there such major difference in small intestinal and large intestinal numbers of microbes?

Duodenum/Jejunum

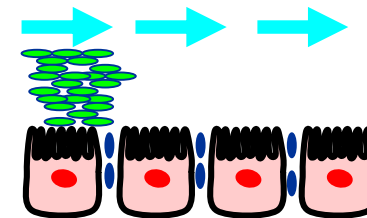
- Flow rate faster than replication rate
- Attachment compulsory for colonisation
 - Bacterial layer one cell thick



Fast Flow

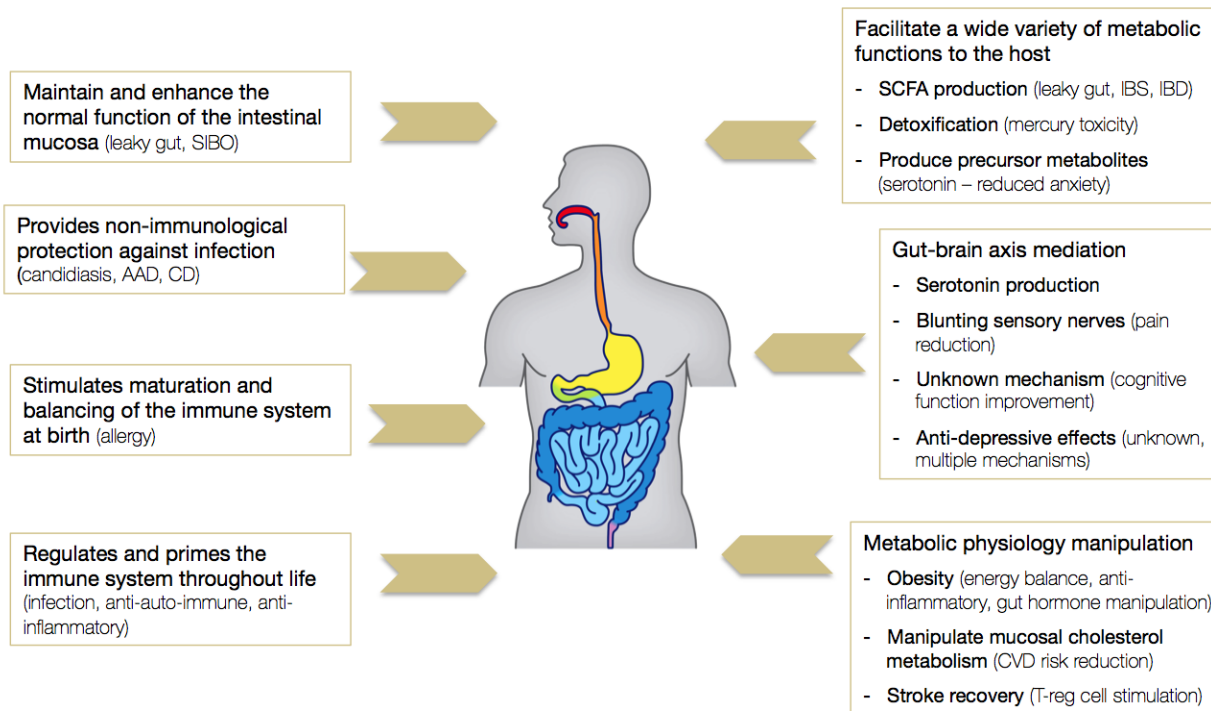
Colon

- Flow rate slower than replication rate
- Attachment non compulsory for colonisation
- Bacterial layer in mucous up to 200 cells thick



Slow Flow

What is the function of microbiota?



Manipulation/Disruption Of Human Microbiota

- ANTIBIOTICS
- PROBIOTICS
- PREBIOTICS
 - FMT