Digesta Region Food, Gut flora

Commensal Clostridia

MMPs, TGF-β

IDO

Treg cells

IL-10

Suppression of intestinal and systemic inflammation

Development of IEL and IgA-producing cells

Neuro-enteric system modulation

NF-κβ

IL-6, IL-7, TGF-β

Butyrate

Fuel

Lamina propria

NE, DA

DCs

Suppression of intestinal and systemic inflammation