

Diet
(fibers)

Intestinal microflora
(butyrate-producing bacteria)

Butyrate production

**Epigenetic regulation of gene expression
involved in:**

- Anticarcinogenic and chemopreventive effects
- Anti-inflammatory effects
- Effects on obesity, insulin resistance
- Effects on cardiovascular diseases
- Effects on immune system
- Effects on inherited disorders
- Neuroprotective effects
- Effects on stem cells