



ENERGY METABOLISM AND GUT INFLAMMATION IN PIGS



Energy metabolism, what are we talking about?

DEFINITION

Breakdown of nutrients into usable energy for metabolic processes

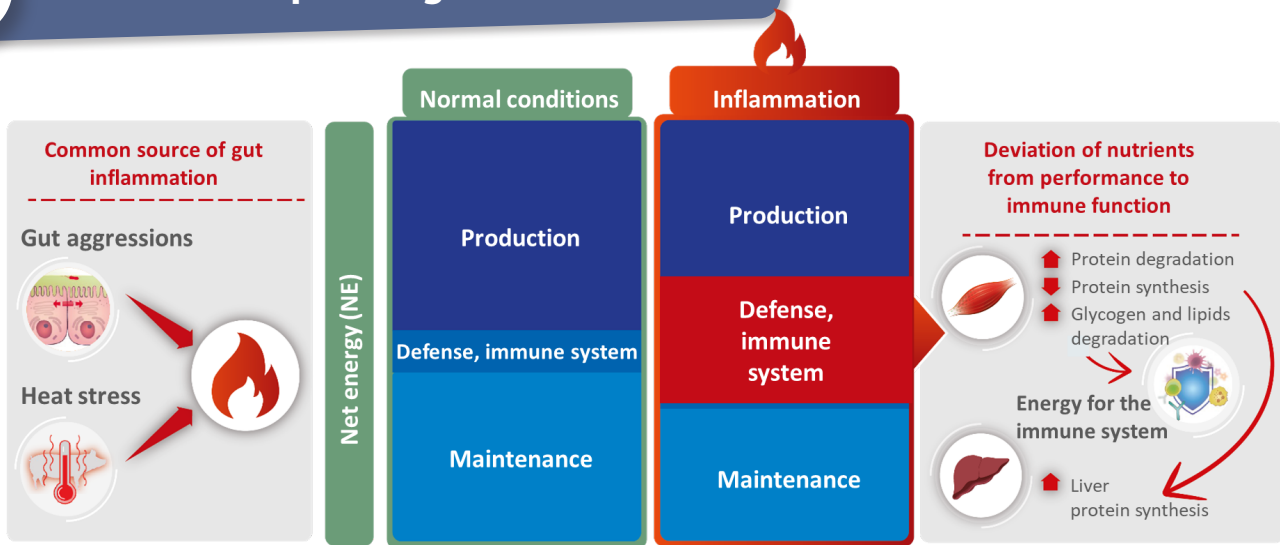
IMPORTANCE

Essential for growth, reproduction and overall health

KEY CONCERN

Gut inflammation can significantly disrupt this process

1 What is the impact of gut inflammation?



• **When the gut is inflamed**, part of the available **nutrients** and **energy** are **diverted from production purposes to other metabolic routes** linked to the inflammation process.

Example

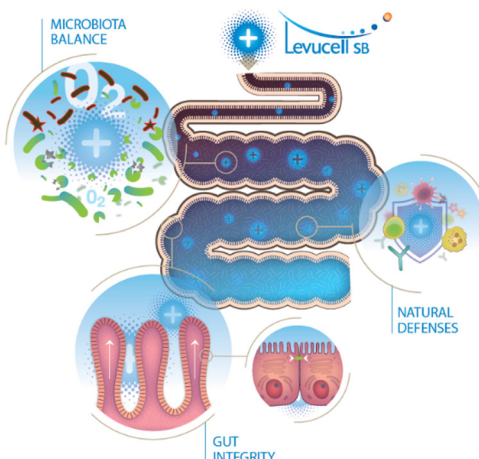
A study estimated that lysine (an essential amino acid) usage by the immune system increases from 0.5-2% to 9%, reducing nutrients available for growth and production.



2 How can a specific live probiotic yeast help reduce the risk of inflammation and improve feed efficiency?

• **LEVUCCELL SB** (*Saccharomyces cerevisiae* var. *boulardii* CNCM I-1079) is a **specific probiotic live yeast** dedicated to **monogastric animals**.

- ➕ It **helps modulate inflammatory responses** and has a **beneficial impact on energy metabolism**.
- ➕ It can **increase energy retention by 1.6%**, i.e., we can apply an energy valorization to LEVUCCELL SB of 30-35 kcal net energy/kg in feed. **This greatly enhances the feed efficiency, while supporting more sustainable practices.**



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