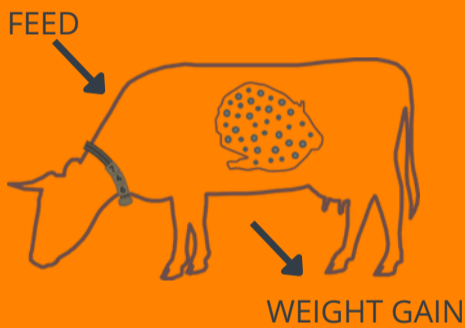
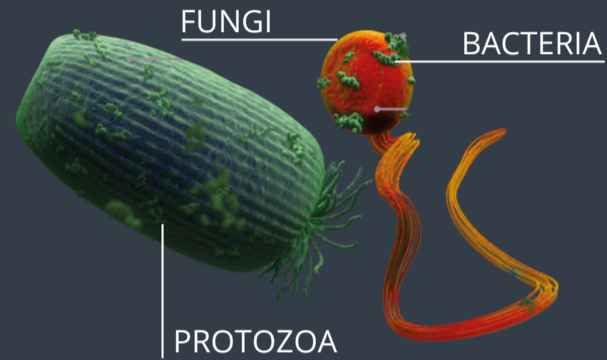


RUMEN MICROBES ARE IMPORTANT FOR EFFICIENT HEIFERS



WHAT IS THE RUMEN MICROBIOME?

Comprised of microorganisms including bacteria, protozoa, fungi, and archaea that are responsible for digestion processes, volatile fatty acid production, and microbial protein production.



WHAT IS FEED EFFICIENCY?

A measure to determine the relative ability of cattle to turn feed nutrients into a high-quality product. These include milk, milk components, weight gain.

HEIFER FEED EFFICIENCY MATTERS

As a long-term constituent of the herd, it is optimal to have cows that are able to produce efficient calves and maintain a stable, efficient rumen throughout stages in production.



MICROBES & MAINTENANCE REQUIREMENTS ARE CONNECTED

Rumen microbial community composition can impact feed efficiency and be influenced by maintenance requirements related to stage of production.*

HEIFER FEED EFFICIENCY & THE RUMEN MICROBIOME

Metabolites related to nutrient signaling and microbial crude protein are correlated with rumen bacteria and improved heifer feed efficiency.*



*[Ruminal Bacterial Communities & Metabolome Variation in Beef Heifers Divergent in Feed Efficiency](#)