2nd ANNUAL ANIMAL MICROBIOME CONGRESS USA | Kisaco Research

IMPROVING FEED EFFICIENCY WITH THE MICROBIOME

"THE GLOBAL PROBIOTICS IN ANIMAL FEED MARKET IS POISED TO GROW AT A CAGR OF AROUND 7.9% OVER THE NEXT DECADE TO REACH APPROXIMATELY $6.37 BILLION BY 2025."

- Accuracy Research LLP

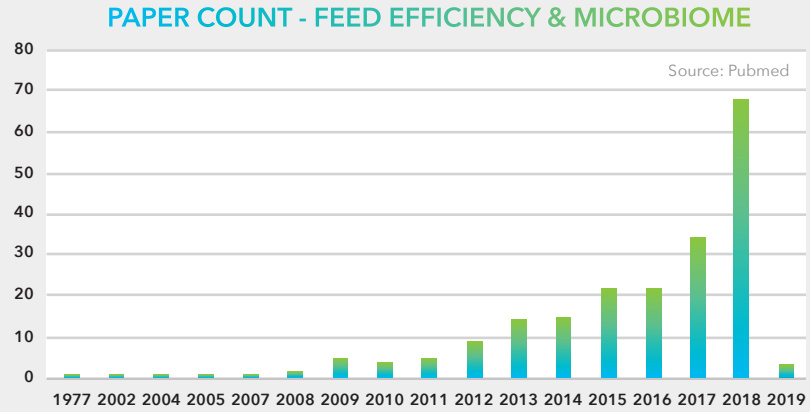
With 341 papers published on livestock microbiome in the last 5 years, and over 750 industry leaders coming together to exchange ideas at our global events in 2018, it is clear that the microbiome is at the forefront of our minds.

We explore 3 key factors driving the industry wide push to manipulate the livestock microbiome to promote health and improve feed efficiency.

1

VETERINARY FEED DIRECTIVE

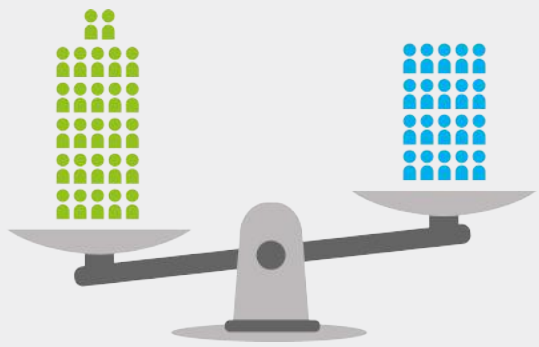
The FDA's Veterinary Feed Directive implemented on January 1, 2017 has eliminate the use of subtherapeutic doses of antibiotics in animal feed to promote growth and improve feed efficiency. Since then, there has been a huge spike in research exploring the role of the microbiome in feed efficiency.



2

RAPID POPULATION INCREASE

By 2050 the world's population will likely increase by more than 35 percent. The International Feed Industry Federation reports that by 2050, **"the world will require 100% more food and 70% of this must come from efficiency improvements."** To tackle this, food producers need to produce more food, more efficiently.



3

SHIFT TOWARDS ACCESSIBILITY

The cost of sequencing is falling rapidly, allowing research into microbiome-based technologies using next generation sequencing to become more accessible.

"The global microbiome sequencing services market is expected to register a CAGR of 18.0% during the forecast period, 2018 to 2023."

– Trade Market Research

HARNESSING THE MICROBIOME:

A huge push for microbiome technologies as alternatives for antibiotic growth promoters is underway and The North American Animal Microbiome Congress will explore:

- Modulation of the gut microbiota through phytochemicals to increase feed efficiency (Hyun Lillehoj , USDA-ARS) and insights into early-life intervention strategies (Andres Gomez, University of Minnesota)
- Novel alternative and non-invasive microbiome sampling methods such as the use of micro-robotic capsules for GI-microbiome sampling (Eric Diller, University of Toronto)
- Lessons from the human microbiome to guide future animal studies and expand the animal microbiome field (Curtis Huttenhower, Harvard University)
- Insights into the future of the animal production industry from the person to implement the first ever poultry production strategy in an antibiotic-free setting (Stephen Collett, University of Georgia)

MULTIDISCIPLINARY COLLABORATIONS:

With an increase in partnerships and M&A activity in the space, it is more important than ever to come together and form collaborations.

With 5 hours of networking across 2 full conference days, The North American Microbiome Congress is the perfect opportunity to meet the leaders in the field and find your next research collaboration.

By bringing together veterinary researchers, animal producers, food retailers, strain manufacturers, and animal nutrition and pharmaceutical companies, discover which products and antibiotic alternatives need to be developed to compliment animal production.

Click here to view the agenda for the North American Animal Microbiome Congress