



BioResource International, Inc. (BRI) is a biotechnology company specializing in the research, development and manufacture of high-performance enzymes that help poultry and swine producers optimize animal nutrition. Based in the Research Triangle Park, a major U.S. biotechnology hub in Durham, North Carolina, BRI's vision is to harness the natural power of enzymes to make a difference in the world.

HISTORY

BRI was co-founded in 1999 by the father and son team of Dr. Jason Shih and Dr. Giles Shih, who share academic and research expertise in the field of animal nutrition and biotechnology, as well as a passion for the advancement of environmental sustainability worldwide. A retired Professor of Biotechnology at NC State University, Dr. Jason Shih is recognized worldwide as an expert in environmental and agricultural biotechnology with over 100 scientific publications and several patents to his name.

Dr. Jason Shih's decades-long research on a thermophilic digester to generate power from poultry waste led to his discovery of keratinase, an enzyme that digests the keratin protein found in feathers. Further research proved that keratinase could also improve digestibility of animal feed. Recognizing the tremendous potential impact that enzymes could have on improving animal nutrition, production and sustainability, Jason and Giles set out to make their vision a reality.



BRI co-founders, from left to right - Dr. Jason Shih and Dr. Giles Shih

TODAY

BRI has earned a solid reputation as a team of trusted enzyme experts who utilize their scientific expertise to create innovative products that solve nutritional and sustainability challenges facing meat producers around the world. BRI scientists have advanced degrees and extensive training in microbiology, biochemistry, enzymology, molecular genetics, microbial fermentation, animal science and nutrition. They are committed to rigorous scientific methodology and thorough data analysis to fuel the discovery, design and production of premium quality enzyme feed additives with unique characteristics that generate high value for animal producers. On-going research initiatives have resulted in the development of a strong portfolio of proprietary novel enzymes.



PRODUCTS

To date BRI has successfully developed and commercialized three enzyme products that are utilized as effective tools for managing rising feed costs and feed ingredient quality variations in a way that is safe for animals, humans and the environment. The company's premier product, Versazyme®, has become the leading protease in the global animal nutrition market and is recognized by producers as providing consistently superior performance across a wide range of feed stuffs. Valkerase® is an enzyme that improves the processing of feathers and the quality of feather meal. BRI's newest product, Xylamax™, is an intrinsically thermo-stable xylanase that delivers consistent all-around performance in nutrient release and absorption, total energy availability, and feed conversion rate. To quickly test animal feed on site to confirm the presence of Xylamax, the company has developed XylaQuick™, a qualitative in-feed colorimetric kit. BRI products are developed and manufactured in the U.S. under strictly controlled conditions to ensure consistent quality and safety. The company's manufacturing processes are certified to comply with global quality standards including GMP and FAMI-QS.

Valkerase®

Keratinase
Processing Enzyme

Versazyme®

Protease
Feed Additive

Xylamax™

Xylanase
Feed Additive

