

Gizmos & Gadgets

Fermentation products and specialty features.

Compiled by Shauna Hermel, editor

Fermentation products

BioZyme Inc. launches AO-Biotics®, a line of products derived from the fermentation of *Aspergillus oryzae* (AO), which promotes resilience. The first product addition to the AO-Biotics is Amaferm®, the hallmark ingredient in BioZyme's premier line of animal nutritional supplements and health products. While research continues to expand Amaferm, BioZyme is developing new products, including prebiotics and postbiotics, under the AO-Biotics brand.

"We are very passionate about utilizing our expertise in AO fermentation to develop new products that address common challenges in animal agriculture globally," says Lisa Norton, president and CEO.

BioZyme has long marketed prebiotics. However, inaugural sales of postbiotics — defined as a preparation of inanimate microorganisms and/or their components that confers a health benefit on the host — are scheduled for the first quarter of 2023. AO's capacity to produce unique cell components and metabolites makes it ideal for generating innovative postbiotics.

To learn more visit www.aobiotics.com.

Specialty tractors

John Deere widens its lineup of specialty tractors designed for work in narrow orchards and vineyards with the addition of the new 5EN and 5ML Series.

The popular 5EN is back and

updated with a 5075EN model available in an open operator station or cab configuration. The cab features AC and heat, ergonomic levers and controls, cell phone and cup holders, 12-volt outlet, USB port and a pair of service ports.

With 75 engine hp, the 5075EN offers the most hp to still meet emission requirements without the management of diesel exhaust fluid (DEF) or diesel particulate filters.

Two proven transmission options are available for the 5075EN — the 12x12 PowrReverser™ and the 24x12 PowrReverser with High-Lo. A creeper option on both transmissions lets operators choose the right speed for any slow-speed application. A left-hand reverser makes changing directions easy.

The 100- to 130-hp 5ML Series also gets significant updates. The new 5ML cab features a flat floor; spacious headroom; ergonomic, well-placed controls; and a reconfigurable in-dash three-screen LCD display.

On cab versions of the 5ML, two front-axle options are available for working widths as narrow as 71 inches (in.), and down to 61 in. on the 5ML Narrow. Each comes equipped with programmable LED lighting, options for a front hitch, and front PTO, plus the choice of an



John Deere 5075EN

easy-to-use PowrQuad™ PLUS or Powr8™ transmission.

For more information, visit www.johndeere.com.

Autonomous technology

CNH Industrial debuts automation and autonomy solutions to help solve farming's challenges to increase productivity and to do more with fewer resources, more sustainably.

The DRIVER ASSIST HARVEST SOLUTION

leverages the Case IH brand's harvest technology with Raven Autonomy™ integration. It provides a coordinated control feature to chart the path and speed of the tractor pulling the grain cart

Raven Autonomy Harvest Assist New Holland

alongside a combine harvester during an "unload on the go" operation.

The technology keeps the tractor in sync with the combine harvester when unloading grain, giving the combine operator seamless control over the unloading process. This makes the full operation more efficient, with less grain spillage. The solution will be commercially available for both Case IH and New Holland brands.

An industry-first **BALER AUTOMATION** was unveiled on New Holland large square balers, featuring new technology that uses a LiDAR sensor to scan the windrow in front of the tractor for density, volume and direction. The tractor and baler then use this input to automatically control steering, forward speed and baler settings to ensure the baler follows the windrow precisely for accurate crop feeding. The result? Optimized bale shape, increased productivity, operator comfort and reduced fuel consumption. Case IH will offer the baling automation feature.

For more information visit www.cnhindustrial.com. **ABB**

