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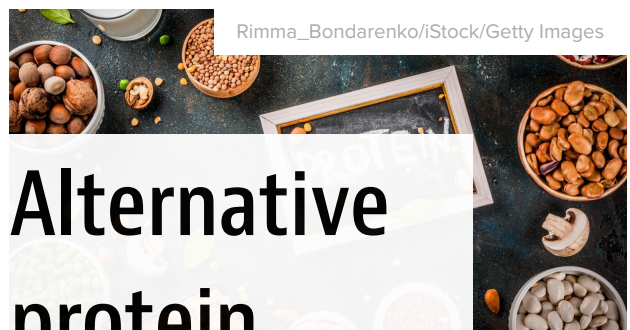
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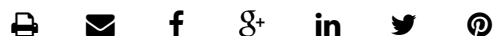
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Alternative protein company Motif

Ingredients launches

Louis Dreyfus and dairy company Fonterra among initial investors.

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Motif Ingredients, a food ingredients company, recently launched with \$90 million in Series A financing to provide next-generation alternative proteins and other ingredients to global food companies. Powered by Ginkgo Bioworks' platform for biological engineering, Motif Ingredients plans to leverage biotechnology to

... create novel solutions for foods that provide consumers with greater choices without compromising taste or nutrition.

Motif investors include Breakthrough Energy Ventures, Louis Dreyfus Co., Fonterra and Viking Global Investors. Jonathan McIntyre, formerly head of research and development (R&D) at Indigo Agriculture and former senior vice president of R&D at PepsiCo, will lead Motif as chief executive officer. Motif will be headquartered at Ginkgo's Boston (Mass.) Seaport facility.



According to Motif, consumer demand for alternative foods such as meat substitutes and plant-based beverages grew 17% last year, with food companies rapidly innovating to keep up with demand. However, the company said obstacles remain to create products that maintain the taste, health profile and integrity of their animal-based counterparts. Motif believes its

counterparts. Motif believes its ingredients offer a solution to this problem, bringing the nutrition and taste that consumers demand at an accessible price that mass-scale food markets require. Using biotechnology and fermentation – rather than animal agriculture – Motif will engineer dozens of proteins derived from dairy, egg and meat products without compromising the functionality, taste and nutrition of animal-based ingredients.

"Sustainability and accessible nutrition are among the biggest challenges facing the food industry today. Consumers are demanding mindful food options, but there's a reigning myth that healthy and plant-based foods must come at a higher price or cannot taste or function like the animal-based foods they aim to replicate," Motif CEO Dr. Jonathan McIntyre said. "Biotechnology and fermentation is our answer, and Motif will be key to propelling the next food revolution with affordable, sustainable and accessible ingredients that meet the standards of chefs, food developers and visionary brands."

Motif said biotechnology is indispensable for catalyzing the next generation of foods.

“Vital food ingredients, including vitamins, amino acids, enzymes and flavors, are made through fermentation with genetically engineered yeasts and bacteria in a process similar to brewing beer. Identifying and developing new fermented ingredients – particularly new proteins – that are historically derived from animals requires deep technical resources and experience,” the company noted.

With Ginkgo, Motif will accelerate the R&D process for manufacturing new ingredients at a price, taste and quality in line with what is already available at an everyday food market. Food companies will be able to outsource this costly and time-intensive R&D process to Motif as a trusted and innovative supplier while dedicating more time and resources to bringing delicious products and new brands to consumers, the company said.

Judith Swales, chief operating

Judith Swales, Chief Operating officer of Fonterra's Global Consumer & Foodservice Business, said, "To help feed the world and meet consumers' evolving food preferences, traditional and complementary nutritional sources need to coexist. As a global dairy nutrition company, we see plant- and fermentation-produced nutrition as complementary to animal protein, and in particular cows' milk. Our partnership with Motif enables us to be part of this emerging area and help meet the nutritional needs of the world's growing population."

Kristen Eshak Weldon, head of food innovation and downstream strategy at Louis Dreyfus, said, "Innovative or disruptive solutions are key to responding to changing consumer demand and to

addressing the challenge of feeding a growing world population sustainably. In this sense, we are excited to partner with Motif, convinced that its next-generation ingredients will play a vital role."

Motif is the second start-up to launch from Ginkgo's breakthrough platform for biological engineering. The first, Joyn Bio, was launched in September 2017 in a joint venture by Ginkgo and Leaps by Bayer to focus on achieving more sustainable agricultural practices, starting with nitrogen fixation.

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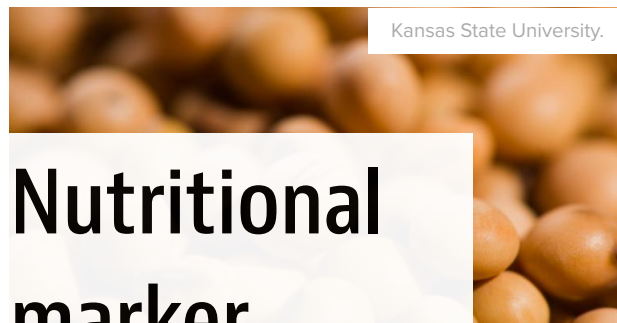
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Nutritional marker provides understanding of soy diets in aquaculture

Results show similar feed conversion in red drum fish fed 60% soybean meal feed diets as those fed traditional fish meal-based diets.

Mar 13, 2019



The Soy Aquaculture Alliance

(SAA) has released the results from one 2018 study it funded.

The study with the South Carolina Department of Natural Resources on using metabolites as a biological marker for nutritional stress in red drum opens the door to better understand how soybean-formulated diets impact fish growth and feed conversion, SAA said.

The alliance said improving the metabolic fingerprint of red drum based on a closely studied comparison with the best two performing reference diets over a 12-week feed trial provided a number of insights.

For the study, eight unique diets were fed to red drum fish, and liver, intestine, heart, muscle tissue and plasma samples were tested. Results found a metabolic marker in all diets, and fish fed a 60% supplemented soybean meal diet had nearly the same growth, weight and feed conversion as fish fed natural reference diets that included squid, shrimp and fish, SAA said.

This research provides a path for assessing this biological marker and allowing nutritionists to develop feed alternatives within acceptable limits for various fish species without causing nutritional stress, the alliance said.

Ultimately, the marker opens the door to further research for higher and better soybean meal inclusion rates to benefit both the U.S. aquaculture industry and the U.S. soybean farmer.

"Every study we do gives us more information and more credence to believe soybeans are a real opportunity for the U.S. soybean aquaculture industry," said SAA executive director Andy Tauer.

"We've been investing for a number of years and every study builds on the one before. We're making real headway now, and seeing the results that will benefit the fish farmer and the soybean farmer alike."

A technical brief about the study has been added to the SAA [website](#).

SAA works to create new

opportunities for soybean farmers within a growing domestic market: aquaculture. SAA funds programs and research that increases the utilization of U.S. soybeans in the diets of fish and shrimp through affiliations with academic and private researchers and industry leaders.

Source: Soy Aquaculture Alliance, which is solely responsible for the information provided and is wholly owned by the source. Informa Business Media and all its subsidiaries are not responsible for any of the content contained in this information asset.

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