

Arcadia Biosciences Achieves Key Resistant Starch Wheat Technology Milestones, Prepares for Commercial Launch

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-- New Non-GM Wheat Varieties Naturally High in Amylose and Fiber Create Unique Value Opportunities for Consumer Branded Products and Tangible Health Benefits for Consumers --

DAVIS, Calif.--(BUSINESS WIRE)--Mar. 14, 2018-- Arcadia Biosciences, Inc. (Nasdaq: RKDA), an agricultural technology company, today announced that it has achieved two key technology milestones in its High Fiber Resistant Starch (RS) Wheat program. First, through advanced screening and traditional breeding techniques, the company has developed non-transgenic (non-GM) wheat varieties that contain up to 94 percent amylose, the highest levels available. Increased levels of amylose correspond to high levels of resistant starch, which has been proven to deliver significant health benefits. Second, these same wheat varieties deliver levels of total dietary fiber high enough to meet the threshold required by the US Food and Drug Administration for a "Good Source" of fiber or "High in Fiber" designation on consumer packaging.

"These milestones are key achievements in the commercial launch plan for our non-GM wheat ingredients portfolio, delivering health benefits to consumers and distinct market differentiators to consumer packaged goods companies," said Raj Ketkar, president and CEO of Arcadia Biosciences. "Arcadia's new wheat varieties will allow people to enjoy the foods they love with the health benefits of resistant starch and dietary fiber, while satisfying consumer demand for clean-label, natural foods."

Arcadia is working with a select number of consumer packaged goods companies on new, healthier formulations of existing products using both enriched and whole wheat RS Wheat flour. The company is preparing for an increase in acres planted during the upcoming US wheat growing season.

Resistant starch has many benefits compared to other types of starch, particularly in the management of gastrointestinal health and obesity-related health conditions, such as cardiovascular disease and type 2 diabetes. It contains higher amounts of amylose, a carbohydrate molecule that is less vulnerable to digestion. Because it is digested more slowly, resistant starch has a lower glycemic index, meaning it does not cause a rapid increase in blood glucose levels. Resistant starch also acts as a nondigestible prebiotic that promotes the growth of "good bacteria" (probiotics) that improve gut health.

Some of the additional reported health benefits of resistant starch include:

- Increased absorption of calcium and other key minerals
- Improved weight loss through increased feeling of satiety
- Increased insulin sensitivity helpful for cardiovascular disease, type 2 diabetes, metabolic syndrome, obesity and Alzheimer's disease
- Increased production of butyrate an anti-inflammatory which may help burn body fat and recently consumed fat.

In addition to the benefits of resistant starch, Arcadia's RS Wheat varieties produce refined flour and whole grain flour that is naturally high in fiber. Many products marketed as "high fiber" contain fiber additives, such as inulin, cellulose and psyllium husk. Arcadia's RS Wheat has intrinsically high levels of fiber and can enable food companies to reduce the use of added fiber sources in their formulations to simplify their ingredient labels.

Wheat flour is a major part of people's diets on a global level. In 2015, the global wheat flour market was valued at \$200 billion and is estimated to reach a value of \$270 billion by 2022. On average, one quarter, or 500 calories, of Americans' daily caloric intake comes from wheat. Arcadia's RS Wheat varieties have the opportunity to provide additional, proven health benefits for consumers who want to continue to enjoy the wheat-based foods they love.

About Arcadia Biosciences, Inc.

Based in Davis, Calif., Arcadia Biosciences (Nasdaq: RKDA) develops agricultural products that create added value for farmers, enhance human health and improve the environmental sustainability of agriculture. Arcadia's nutrition traits and products are aimed at creating healthier ingredients and whole foods with lower production costs. Arcadia's agronomic performance traits are aimed at making agricultural production more economically efficient and environmentally sound. For more information, visit <u>www.arcadiabio.com</u>.

Note Regarding Forward-Looking Statements

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, including statements relating to the company's wheat traits and the commercialization of these traits. Forward-looking statements are subject to risks and uncertainties that could cause actual results to differ materially, and reported results should not be considered as an indication of future performance.

These risks and uncertainties include, but are not limited to: the company's and its partners' and affiliates' ability to identify and isolate desired traits; the company's and its partners' ability to develop commercial products incorporating its traits and complete the regulatory review process for such products; the company's compliance with laws and regulations that impact the company's business, and changes to such laws and regulations; the company's future capital requirements and ability to satisfy its capital needs; and the other risks set forth in the company's filings with the Securities and Exchange Commission from time to time, including the risks set forth in the company's Annual Report on Form 10-K for the year ended December 31, 2016. These forward-looking statements speak only as of the date hereof, and Arcadia Biosciences, Inc. disclaims any obligation to update these forward-looking statements.

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