Texas AgriLife Research scientists include internationally recognized sorghum specialists and innovators who are developing sorghum hybrids that provide high levels of different active components that can be patent protected as a plant variety.

Inflammation and Cancer
- High levels of flavanones and flavones are found in sorghums, which make them an excellent source of rare anti-inflammatory compounds.
- Sorghum can be processed to concentrate the phenols effectively by abrasive milling procedures like those used in rice polishing. This results in a four- to five-fold increase in tannins and antioxidants, depending on the sorghum variety.
- The condensed tannins provide anticancer activities, particularly for colon cancer but also for breast cancer, as measured by in vivo and in vitro tests in several laboratories around the world.
- Black sorghums are the only known common source of unique 3-deoxyanthocyanins, which induce strong chemoprotective and anti-inflammatory responses in human cell lines.

Gluten Intolerance
- Sorghum is a popular food choice among those with celiac disease, as an inexpensive healthy ingredient for a wide variety of foods enjoyed by gluten-intolerant people. Flavors vary from bland (white sorghums) to a strong whole-grain flavor (pigmented sorghums).
- Sorghum flour and bran provide needed fiber and protein to bread and cake mixes used by celiacs and produce a bread product superior to traditional 100% tuber-based starch mixes.

Food Production
- Sorghum can be produced easily, stored, and processed into a wide array of extracts and milled fractions to enhance antioxidants in food systems ranging from granola bars to extruded ready-to-eat-breakfast-cereals to snacks, making them superhealthfoods.
- Obese and overweight subjects may benefit from the ability of unique sorghums to influence carbohydrate and protein digestion.

For more information, contact
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