

Dow AgroSciences

Growing the Success of our Healthy Oils Platform

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Omega-9 Program Expansion

- Global demand is increasing for our healthier oils as consumers demand elimination of trans fats and lower saturated fats from their diets.
- To meet the increasing global demand for healthy oils, Dow AgroSciences is expanding its program of Omega-9 oils and Nexera TM canola.

Omega-9 Program Expansion cont.

- Dow AgroSciences continues to develop improved oil profiles, meal, and agronomic traits to meet growers, oil producers, and food industry needs.
- Dow AgroSciences has responded to health concerns with the development of a successful healthy oils platform, built on 'next generation' Nexera™ canola varieties that produce heart-friendly Omega-9 Oils.



Growth of DAS Saskatoon

- Saskatoon has been selected as the centre of Dow AgroSciences' global canola research program.
- By spring of 2009, the Saskatoon research facility will have doubled in size, including state-of-the-art scientific equipment and high-level research positions.
- Dow AgroSciences will be able to draw more fully on the wealth of scientific expertise that exists in Saskatoon.

Expansion to DAS Plant Breeding Group

- Ten new people were added in 2008, almost doubling our breeding team.
- The land base for field trials in Saskatchewan more than doubled in size.
- Field-testing capability was expanded in 2007 with the establishment of research sites in both Alberta and Manitoba.



Expansion to DAS Plant Breeding Group cont.

- The expansion of the Saskatoon plant breeding program has already netted results, with 13 new potential Nexera canola varieties in development (7 Roundup Ready and 6 CLEARFIELD varieties in 2008 public registration trials).



Saskatoon Lab Expansion

- To keep up with the expansion of our breeding program the Tissue Culture Lab introduced numerous stages of automation and has gone through a very strategic capability build.
- The Marker-Assisted Breeding Lab doubled in size to support the increased need for gene of interest screening.



Saskatoon Lab Expansion cont.

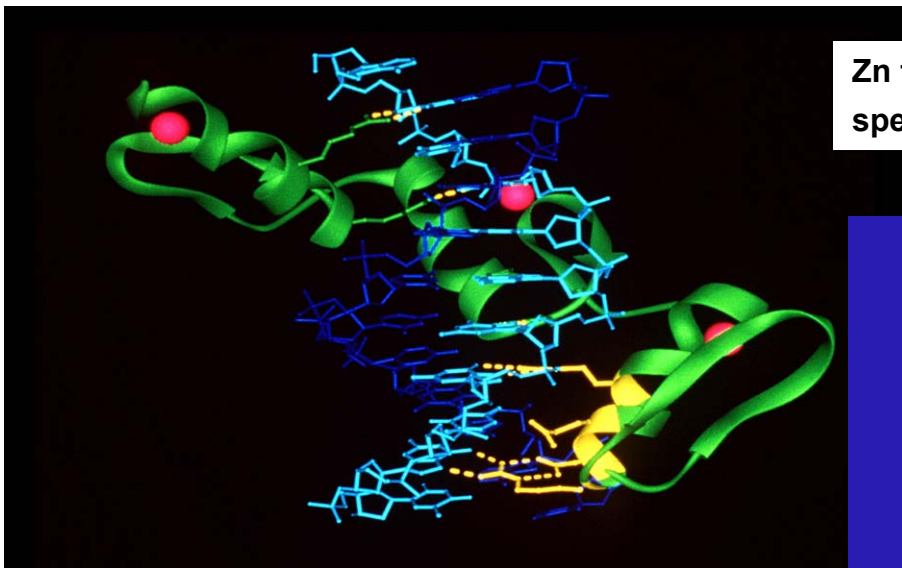
- The Canola transformation lab relocated to the Saskatoon R&D site in 2008 to better align the Discovery and Seeds Omega-9 research team.
- An analytical lab was also added to the Saskatoon facility to provide even more tools for the breeders.



Technology Build

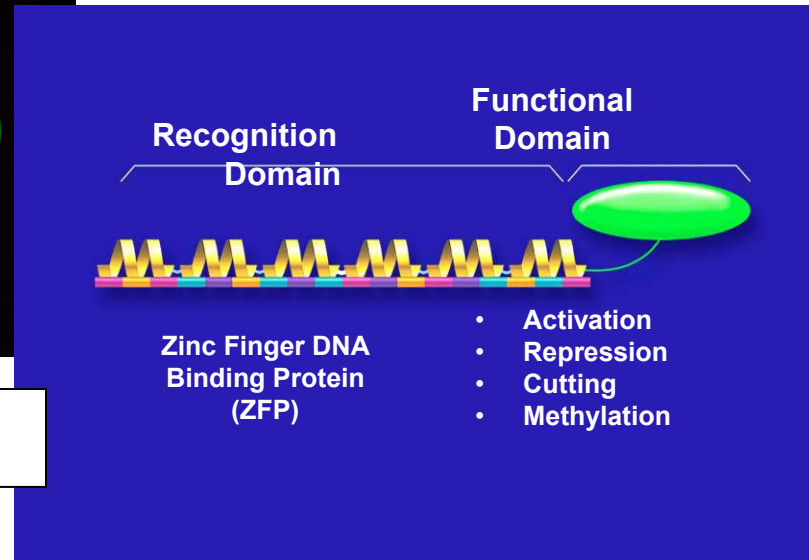
- Among the technologies that Dow AgroSciences has accessed to accelerate its canola breeding programs is zinc finger DNA-binding protein (ZFP) technology through a partnership with Sangamo BioSciences Inc.
- The novel ZFP technology accelerates the process of ‘trait stacking,’ which shortens the path to commercialization of crops containing new traits.

ZFP provide unique means to achieve “perfect events”



Zn fingers are protein domains which bind to specific, 3 base pair DNA, sequences.

Sangamo can design custom Zn finger proteins to any DNA sequence.



Thank You