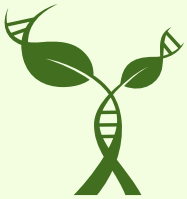
NSF CULTIVATES THE HARVEST

- NSF invested ~$125 million in new crop-related research in FY 2016.
- All NSF directorates supported crop-related research this year.
- The top three supporting directorates were BIO, ENG and SBE.



1998

Beginning of NSF's support of plant genome research through the National Plant Genome Initiative.

ARABIDOPSIS

First plant to have its genome sequenced; since then, many crop plants with complex genomes have been sequenced.

427 TERABYTES

Total data storage capacity for NSF iPlant Collaborative (now CyVerse).[1]

$48 MILLION

Support for the five-year Basic Research to Enable Agricultural Development (BREAD) program as a shared investment between NSF and the Gates Foundation.[1]

DID YOU KNOW?

There are 30 species of flowering plants on Earth that provide over 95 percent of human food and energy needs.[2]

ECONOMIC IMPACT

>20 million
Number of jobs the food and agriculture sectors and related industries create[3]

$1 trillion
Generated by food and agriculture sectors for the U.S. economy[3]

Wheat, corn, soybeans, tomatoes, among others
Crops that are important economically

Sources: [1]National Plant Genome Initiative Five-Year Plan: 2014-2018; [2]Unleashing a Decade of Innovation in Plant Science: A Vision for 2015-2015; [3]National Coalition for Food and Agricultural Research

Image credits: (top to bottom) ©iStock.com/browndogstudios; ©iStock.com/amtitus; NSF; ©iStock.com/sweetjinkz; ©iStock.com/Askold Romanov; ©iStock.com/lushik; ©iStock.com/Sashatigar