

The Ethics of Sharing Resources Produced as a Result of Research

And why is this beneficial for scientists and science

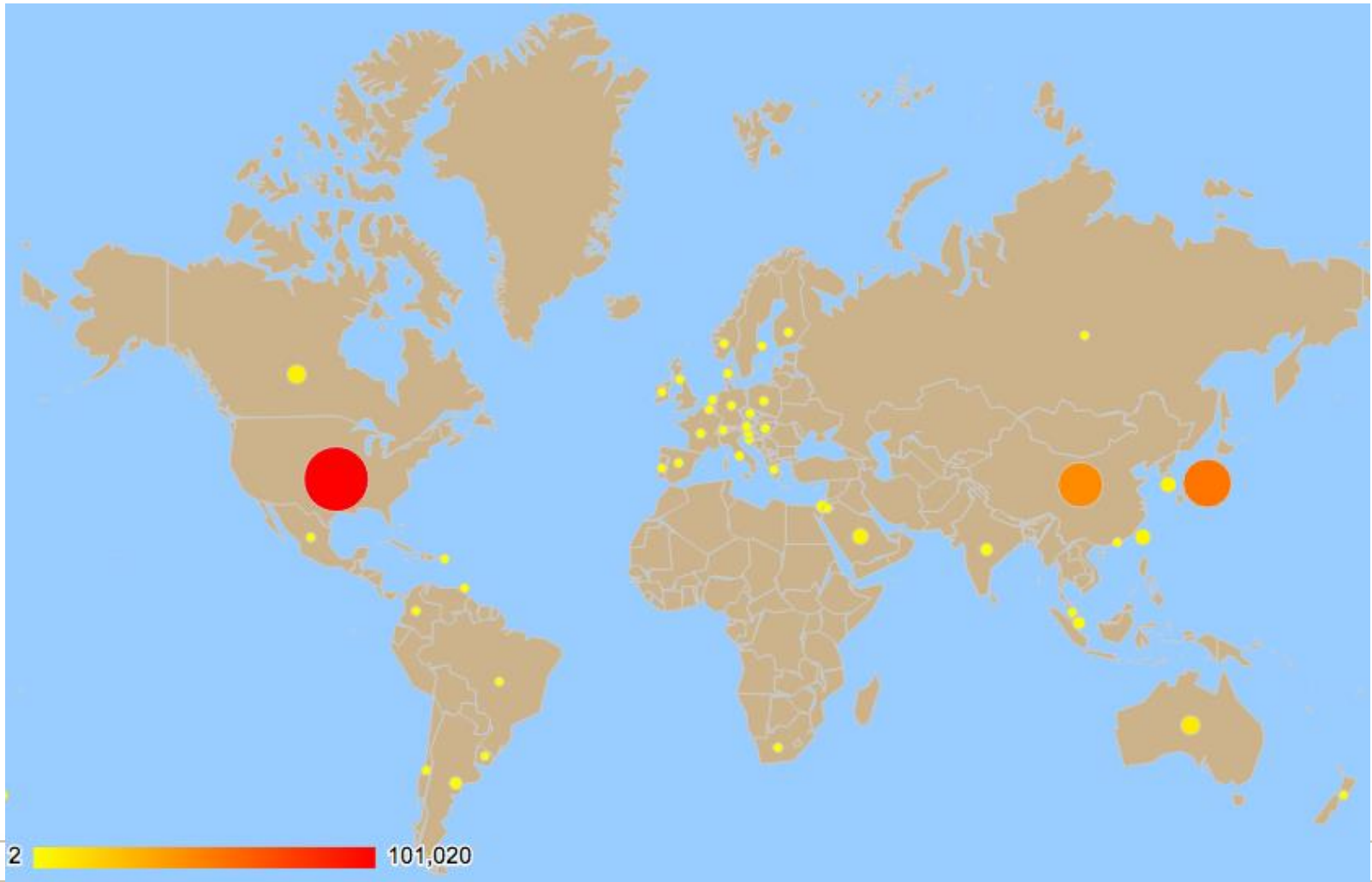


Mission

To collect, preserve, reproduce and distribute *Arabidopsis* resources to the international community of 20,000 researchers and educators

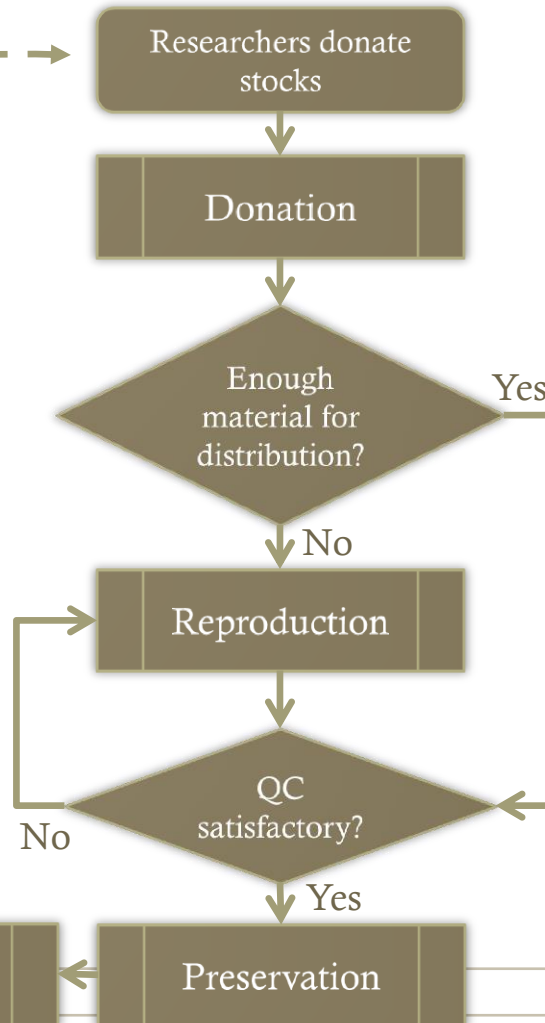


ABRC Global Stock Distribution



Donation Initiates New Research and New Resources

Research



Other Benefits of Donating Resources



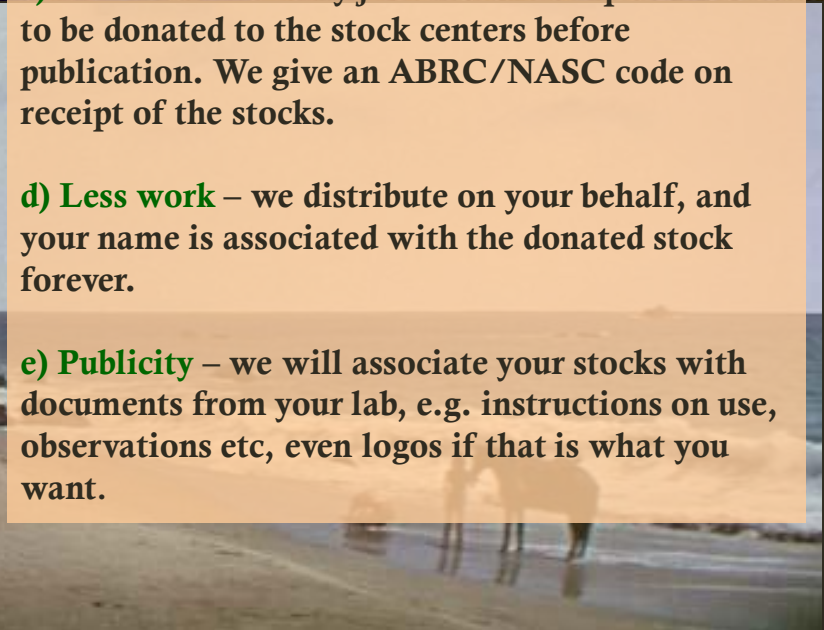
a) Security – we preserve the seeds under the best possible conditions for longevity and germination frequency. Backups are stored on different continents.

b) Stability – any seeds donated can be recovered if local stocks get compromised or lost (or just lose their germination rate) many years after donation.

c) Publication – many journals now require seeds to be donated to the stock centers before publication. We give an ABRC/NASC code on receipt of the stocks.

d) Less work – we distribute on your behalf, and your name is associated with the donated stock forever.

e) Publicity – we will associate your stocks with documents from your lab, e.g. instructions on use, observations etc, even logos if that is what you want.

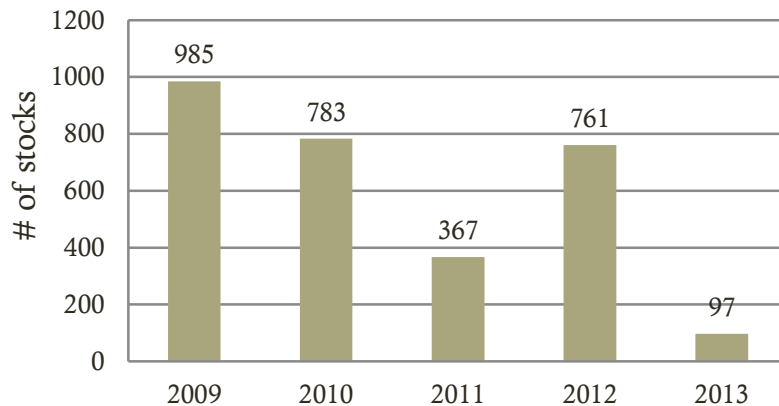


While the Number of Donated Individual Stocks Might Seem Small...

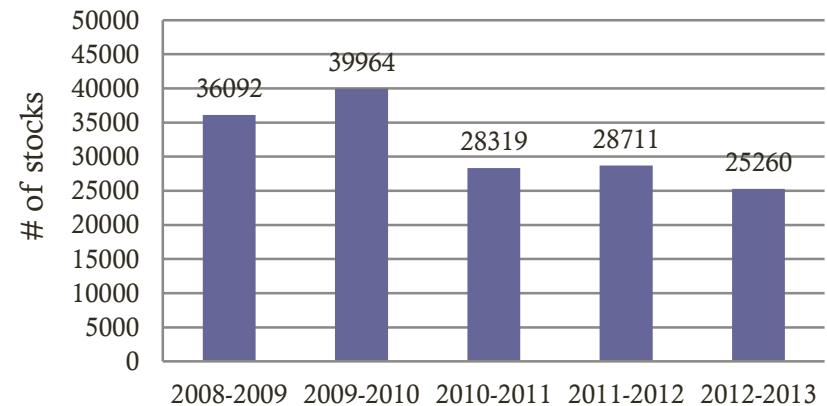
Individual Donations

- Well-characterized stocks
- Publication is available in most cases
- Often related to a visible plant phenotype
- Most are either characterized mutants or transgenic plants

Individual Seed Donations
(**<550 stocks donated at a time**)

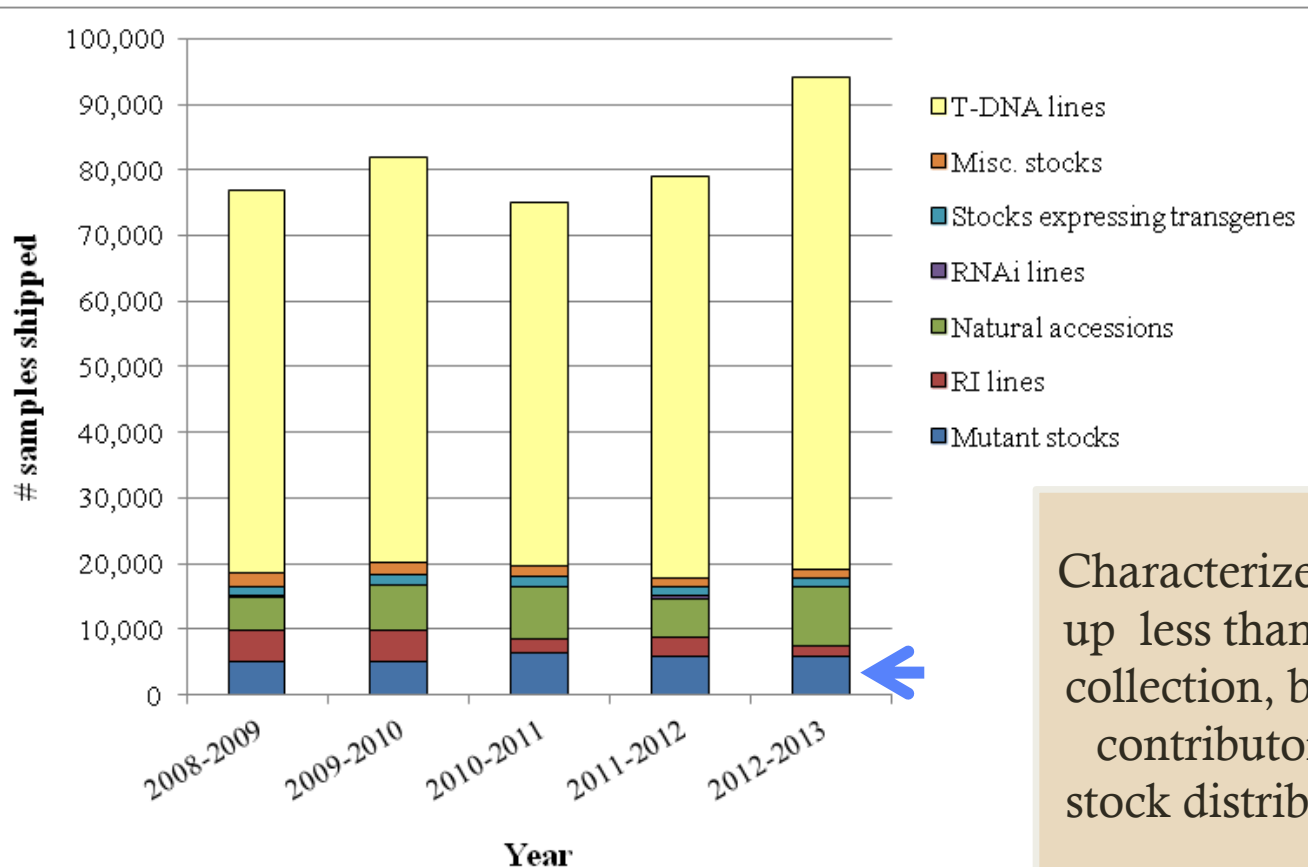


Total Seed Donations
(**>550 stocks donated at a time**)



...Donation of Individual Stocks Does Make a Difference

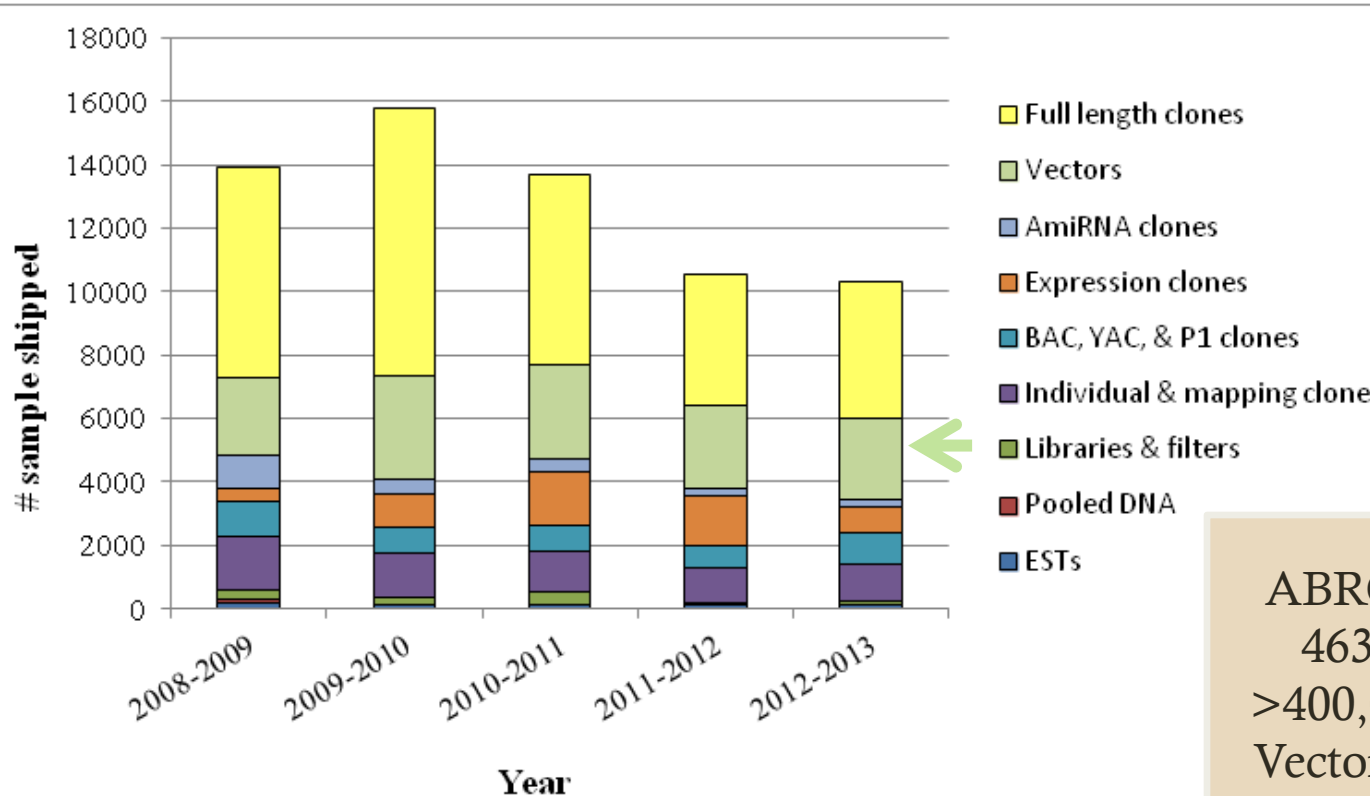
Seed Stock Distribution



Characterized mutant stocks make up less than 0.7% of ABRC stock collection, but they are significant contributors to the overall seed stock distribution (between 5-10% annually)

...Donation of Individual Stocks Does Make a Difference

DNA Stock Distribution

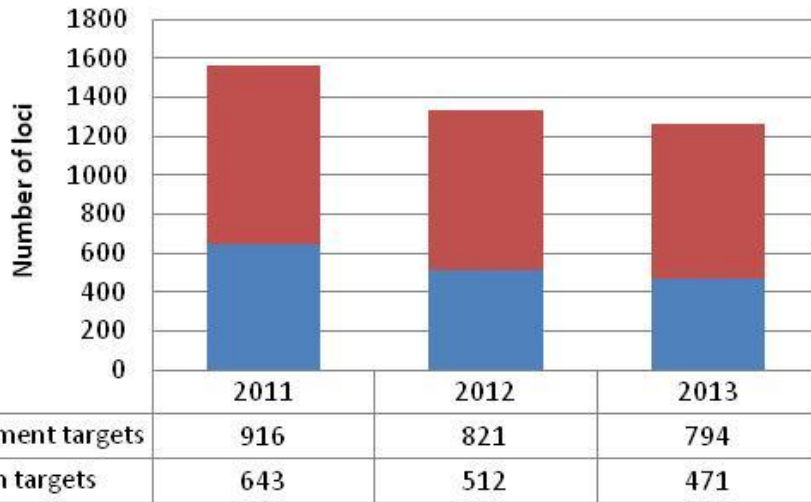


ABRC currently holds 463 vectors (out of >400,000 DNA stocks). Vectors make up nearly 25% of the overall DNA stock distribution.

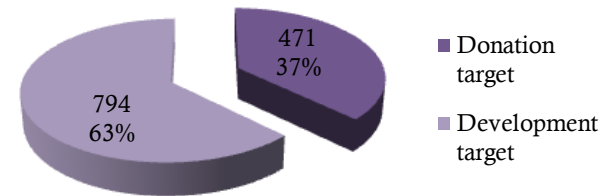
ABRC Donation Targets

To reach the goal of having at least one mutant stock for each of Arabidopsis genes, we still need to obtain mutant stocks for 1,265 most wanted genes

Most Wanted Genes



Most wanted genes 2013



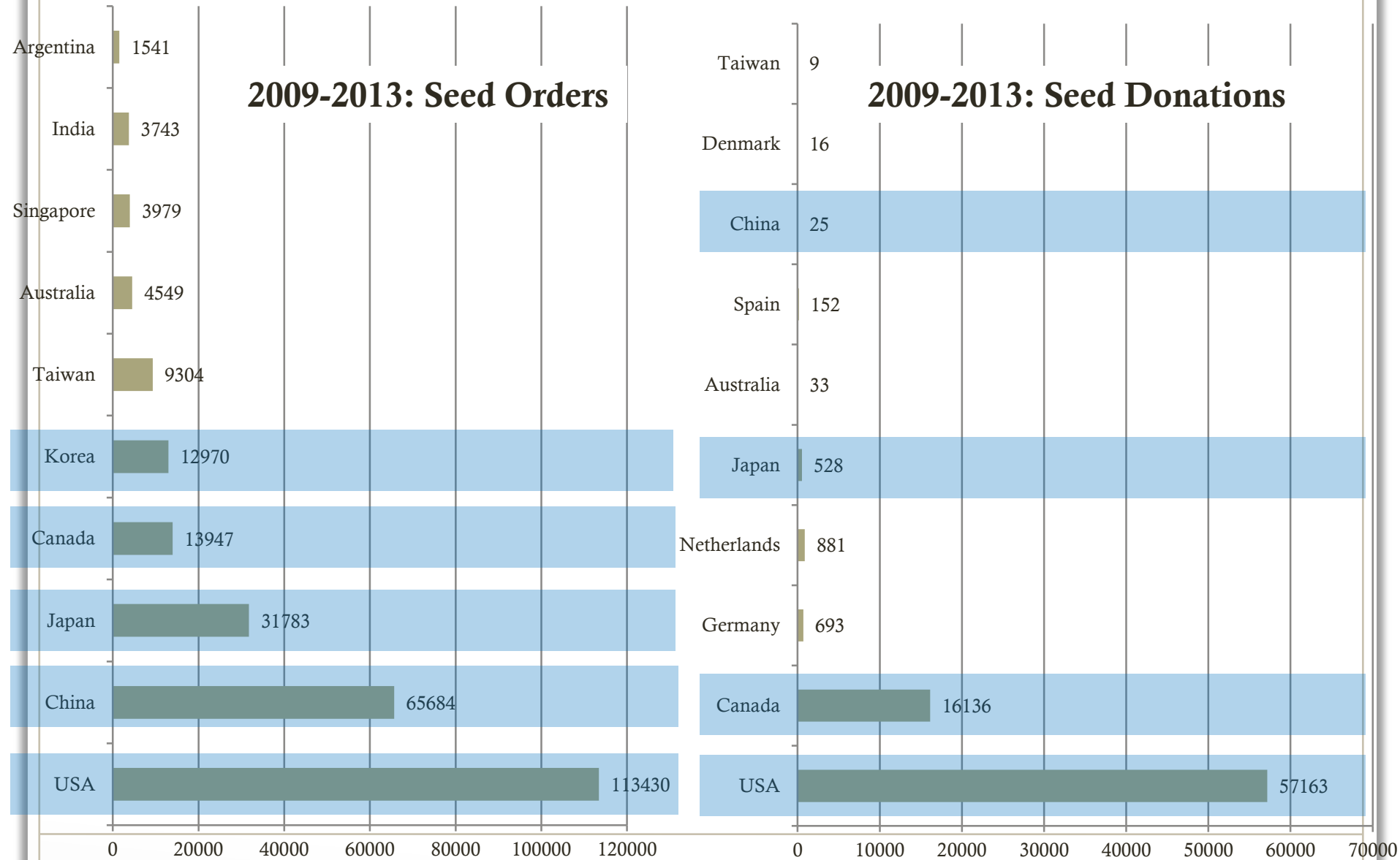
- Mutant stocks for 471 genes, which have already been generated as a result of research of many labs, are immediate donation targets.
- Mutant stocks for 794 genes have to be developed first, mostly by big labs working on high-throughput projects.

Most wanted genes	1,559	1,333	1,265
Obtained		226	68

Please Help Us Change the Culture of Donating Resources!

2009-2013: Seed Orders

2009-2013: Seed Donations



Funding – Thank You!

