

2024 Research Plan

The Peanut Research Foundation's board of directors and staff have worked diligently over the past year to assess the wishes of the peanut industry regarding future research priorities.

Based on this feedback, we have drafted an updated research plan that can be revised at any time to reflect the wishes of our donors.

Until further revision, our requests for research proposals and our decisions on funding those proposals will be guided by this new research plan.



Support Marker Development and Breeding Programs Targeting the Following Quality and Nutritional Goals:

- Varieties which absorb less heavy metals (particularly arsenic and cadmium)
- Varieties with higher protein content (at least maintaining a 7 gram/serving product label) and other nutritional advantages
- Varieties developed with markers for improved, or at least conserved, positive flavor qualities and/or fewer negative flavor qualities
- Varieties which support less aflatoxin contamination
- Varieties with more desirable fatty acid compositions for specific markets, specifically those with high saturated fat and high oleic qualities and those that would support a self-stabilizing peanut butter
- Varieties which would provide a more complete amino acid profile



Maintain the Marker Assisted Selection (MAS) “Pipeline”

The advantages of Market Assisted Selection are obvious. While MAS facilitates utilization of desirable traits and saves a few years in the breeding process, the time from initial cross to release of a new variety still takes many years and substantial money.

The U.S. peanut industry wants to support our trusted breeding programs by supplementing the cost of genotyping and phenotyping breeding lines targeting the traits above.

- Support of PeanutBase or similar databases to support MAS
- Support of scientific conferences which facilitate information exchange and collaboration
- Germplasm protection/curation, development of wild allotetraploids for breeding germplasm
- Support the genotyping and phenotyping costs of peanut breeding programs using MAS targeting our research goals

Technologies Which Provide Efficiencies and Enhanced Profitability for Producers

- Varieties with improved disease resistance
- Varieties with insect resistance
- Varieties which maintain economically viable yields in reduced water and high heat environments
- Research to promote soil health and increased carbon sequestration in peanut production
- High oil content varieties to support an emerging U.S. peanut oil market

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