



Seed Applied Technology



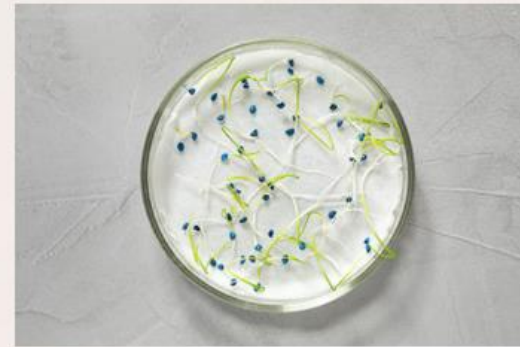
Digital Agriculture



Seed Health and Pathology



Seed Production Technology and Equipment



Seed Quality and Testing



Breeding Systems



Seed Science Foundation

Seed Science Foundation Value

- Proactive and integrated source of plant science expertise for the U.S. seed industry. - 501(c)(3) org

Seed Science Foundation Mission

- Address seed and plant science challenges, encourage plant breeding education and seed research in support of the ever-changing needs of the global seed industry.

Seed Science Foundation Mission

- Provide insight and recommend solutions that enable the U.S. seed industry to function with global effectiveness.

Board Structure & Governance

- Goals
 - Proactive research support, broad industry representation, relevant impact, build scientific connectivity, provide science advisory group to ASTA
- Composition
 - 13 members, 3-yr terms
 - Officers (5 board members)
 - Subject Matter Chairs (6 board members)
 - Research Investment and Communication Leads (2 board members)
 - 4 Ex-officio members from ASTA staff

Subject Matter areas

- Six industry-relevant subject matter areas
 - Breeding Systems
 - Seed Health/Pathology
 - Digital Agriculture
 - Seed Quality and Testing
 - Seed Production Technology/Equipment
 - Seed Applied Technologies

Six Subject Matter Areas

- Breeding Systems: Sarah Smith (HMClause)
- Seed Quality: Doug Miller (Illinois Crop Improvement)
- Seed Production/Tech: Clayton Osburn (Syngenta)
- Seed Health/Pathology: Samantha Thompson (Bayer)
- Digital Ag: Open
- Seed Applied Tech: Cecilia Chi-Ham



Seed Quality and Testing - SME

Seed Quality & Testing

- To be an effective decision making tool seed testing must deliver an accurate assessment of the seed's viability, purity and identity based on a representative sample.



Seed Quality & Testing

Note...

- Seed Quality is assessed during testing
- Viability deficiencies range from physiological to physical, hidden to visible
- Purity deficiencies range from varietal to mechanical
- Seed Testing must deliver an accurate assessment of purity and performance
- Seed Quality can be improved through breeding, production-practices, and seed-applied technologies

Seed Quality & Testing

- Basic – Explore attributes in seed that have yet to be measured or correlated to seed quality.
- Applied – Improving the state of the art in vigor, purity, trait and genetic testing
- Outreach – Improve the decision-making abilities of seed professionals & consumers.

Seed Quality & Testing

Kent Bradford

- UC Davis

Xianming Duan

- Sakata Seed America

Samantha Thomas

- Bayer

John Mizicko

- Eurofins BioDiagnostics

Amanda Patin

- SGS

Brent Reschly

- Syngenta

Jim Shearl

- JR Shearl & Associates

Doug Miller

- Illinois Crop Improvement



seedsciencefoundation.org



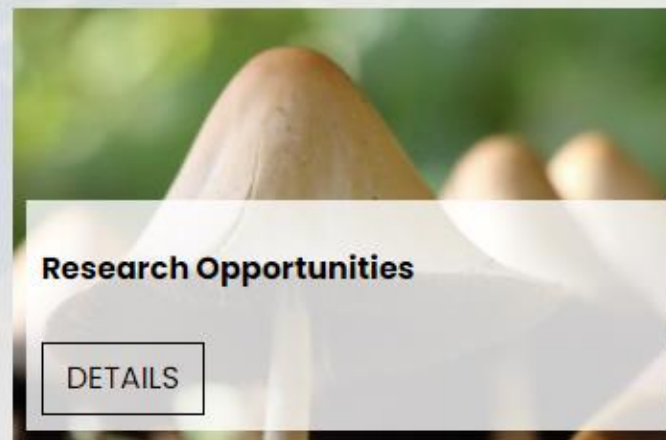
Our Goals

The intent of SSF research is to be dynamic and forward thinking. The SSF seeks to address the needs and opportunities within the seed industry.



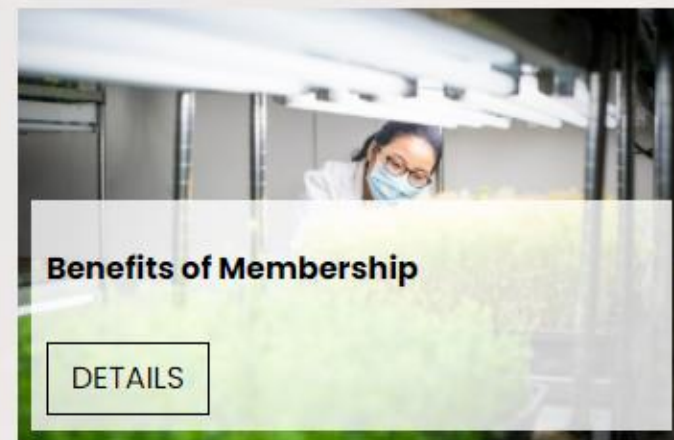
About Us

DETAILS



Research Opportunities

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Benefits of Membership

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