What is the 2Blades Foundation?

**2BLADES: A CRITICAL PART OF THE GLOBAL VALUE CHAIN FOR FOOD SECURITY**

**FOCUS**
Discovery, advancement, and delivery of durable disease resistance in major food crops

**IMPACT**
Advances to sustainably feed additional 2 BILLION PEOPLE by 2050 using less land, water, and chemicals

**RESEARCH PARTNERSHIPS**
Work done in-house at the 2Blades Group in The Sainsbury Laboratory, Norwich, UK, and in collaboration with labs in the US, Australia, Brazil, Kenya, and other countries

**DELIVERY PARTNERSHIPS**
Bridging public-private partnerships with large and small seed and ag-biotech companies, and with international agricultural centers

What are the activities of the 2Blades Foundation?

- Establishes and manages development programs for the major unsolved diseases of major crops
- Translates discoveries about plants' immune systems into disease-resistant crops in the field
- Seeks molecular solutions where conventional breeding is unable or too slow to produce resistance; and where chemical control is unavailable, ineffective, or unaffordable
- Advances resilient varieties for the developed and developing world, including smallholder farmers
- Holds exclusive worldwide rights for the TAL Code in plants, and provides broad intellectual property access
- Trains young scientists in cutting-edge molecular biosciences and business management skills to help advance the next generation of innovators

What are the projects of the 2Blades Foundation?

- **Wheat Ruffs**
  - Field-level resistance against global stem rust threat with 5-gene stack
- **Asian Soybean Rust**
  - Industrial partnerships producing new sources of resistance from wild legumes
- **Citrus Canker**
  - Innovative resistance strategy confers protection to grapefruit in the field
- **Potato Late Blight in Africa**
  - Supporting partner International Potato Center to complete work on new African potato varieties with durable resistance to late blight
- **Corn Stalk and Ear Rots**
  - Identified resistance to multiple fungal diseases
- **Resistance Gene Diversity**
  - Expanded knowledge of resistance by cataloguing and studying genes from across the plant kingdom
- **Tomato Bacterial Diseases**
  - Demonstrated control of bacterial diseases in the field and yield increases

For more information, visit the 2Blades Foundation website: [https://2blades.org/](https://2blades.org/)