

# 2022 ADVANCED WHEAT IMPROVEMENT COURSE



Accelerating Genetic Gains  
in Maize and Wheat

## Overview

The CIMMYT wheat training program was established in 1968 with the mission of training plant scientists to overcome challenges in wheat production around the world. For the first time, the Advanced Wheat Improvement Course is being held in partnership with Cornell University and the Borlaug Global Rust Initiative.

## Candidates

This course targets mid-career scientists working in NARS organizations, but graduate students and qualified individuals are welcome to apply.

## Applications

The deadline to submit applications is August 26, 2022. Applications should be submitted online.

## Important Information

Cost: The course is FREE OF CHARGE but limited to 20 participants.

Dates: The online course will start on September 19 and end on October 14, 2022.

Location: The program will be conducted through webinars and virtual one-on-one sessions with global scientists and the training coordinator.

## Objectives

- 1) Apply principles and methodologies of quantitative genetics to analyze and evaluate literature involving wheat quantitative genetic experiments.
- 2) Design and analyze quantitative genetic experiments for wheat breeding purposes.
- 3) Statistically analyze phenotypic data of plant traits considering genotype x environment interaction.
- 4) Apply simple computational skills to perform basic data analysis to assist selection
- 5) Explain how to develop and manage breeding populations to accomplish specific breeding objectives.
- 6) Evaluate different breeding strategies and methods to maximize progress from selection.
- 7) Identify key practices and components for developing and managing a successful wheat breeding program.

- course coordinator: Maricelis Acevedo, research professor at Cornell University
- contact Information: Viridiana Silva Cruz, email: [v.silva@cgiar.org](mailto:v.silva@cgiar.org)

