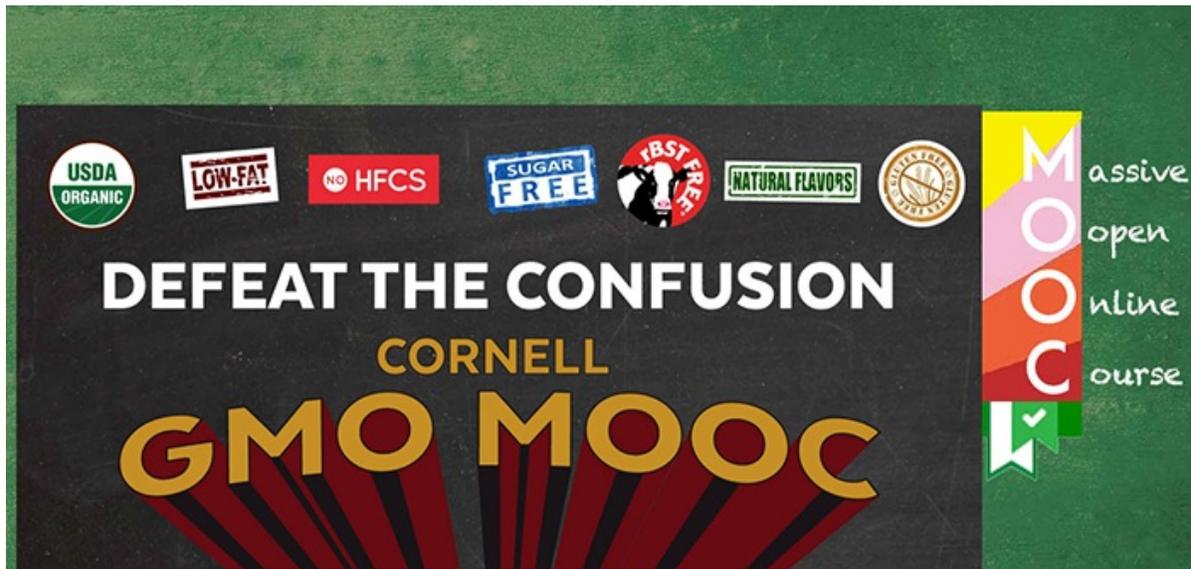




BGRI Borlaug Global Rust Initiative



September 2016

## Wheat and Wheat Rust Communities Features in Cornell MOOC on GMOs

Join Cornell University and edX in the GMO-focused Massive Open Online Course (MOOC) that explores the political debate around GMOs and society.

Genetically Modified Organisms, or GMOs, have transformed the way we produce and consume food. While some appreciate the affordances of this technology, others are more critical. Join us for this free, 5-week introductory course, The Science and Politics of the GMO, launching on September 13, 2016! Follow us on Twitter@CUgmoMOOC.

Students will learn about the Durable Rust Resistance in Wheat project as an example of how plant breeders have a variety of tools to choose from and have to choose the right tool for the given challenge. While sometimes a GM approach is the only option, other times, a conventional approach has a higher likelihood of success of reaching farmers in a timely manner.

Students in the course will also learn about how science works and the limits of science by exploring the "Whiffy Wheat" project at Rothamsted Research in the UK.

[Learn More](#)

## Women in Triticum Focus: Jemanesh Kifetew Haile, 2010

What advice do you have for other women who are beginning their careers in agricultural science?

I hope to become a role model for young professionals in

science, particularly African women who are considering a career in agricultural science. While earning my PhD it was difficult to balance family and career, and required me to make some sacrifices. Based on my experience - a period of hard work and the success I enjoyed at the end of it - I advise women to strive to excel in scientific careers where men have dominated. To become a productive scientist, you need tenacity and determination; I believe that women have their own advantage when it comes to developing and nurturing these skills. It all begins with having the will and enthusiasm to overcome social pressures.



[Read More from Jemanesh Haile](#)

## New evidence for grain specific C4 photosynthesis in wheat

Converting C3 crops to C4 provides the possibility of improving yield by 30% through improved water- and nitrogen- use efficiency. Engineering C3 food crops like wheat and rice to use the C4 pathway has long been explored to enhance global food security. We now report an analysis of the transcriptome of genes associated with C4 photosynthesis in the developing wheat grain.

[Read the full article at Nature](#)

## Research Update



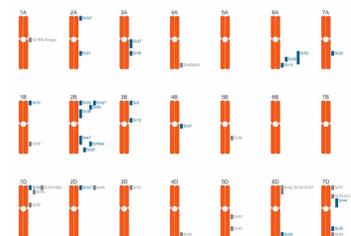
### Wheat stem rust disease incidence and severity associated with farming practices in the Central Rift Valley of Kenya

Beatrice Nafula Tenge, Pascal Peter Okwiri Ojwang, Daniel Otake, Maurice Edwards Oyoo  
doi:[10.5897/AJAR2016.11154](https://doi.org/10.5897/AJAR2016.11154)

[More journal articles](#)

## From the BGRI Website

If you have been following our Twitter account you've learned a lot about the R genes our scientists have at their disposal, and here's a map of them so you know where to find them.



**VISIT OUR WEBSITE**

**Borlaug Global Rust Initiative**  
| [bgri@cornell.edu](mailto:bgri@cornell.edu) |



**SIGN UP FOR  
OUR EMAILS**



**SHARE THIS  
EMAIL**

