

# Dorothy Wrinch

A mathematician and biochemical theorist best known for her attempt to deduce protein structure using mathematical principles

Taught molecular biology at universities throughout the Pioneer Valley, like Amherst, Mount Holyoke, and Smith.



# Rosalind Franklin

Pioneered the use of X-ray diffraction to investigate the structures of protein.

Produced the data essential to discovering the structure of DNA.



# Marie Maynard Daly

The first African American woman to receive a doctorate in chemistry in the United State, in 1947

Discovered the link between high cholesterol and clogged arteries.

Taught Biochemistry at Columbia University and the Albert Einstein College of Medicine



# Ruby Hirose

Japanese-American biochemist and bacteriologist during and post-World War II.

Her research was fundamental to and directly responsible for several vaccines, including polio and infantile paralysis.

Created a novel treatment for allergy desensitization, inspired by her own problems with hay fever.

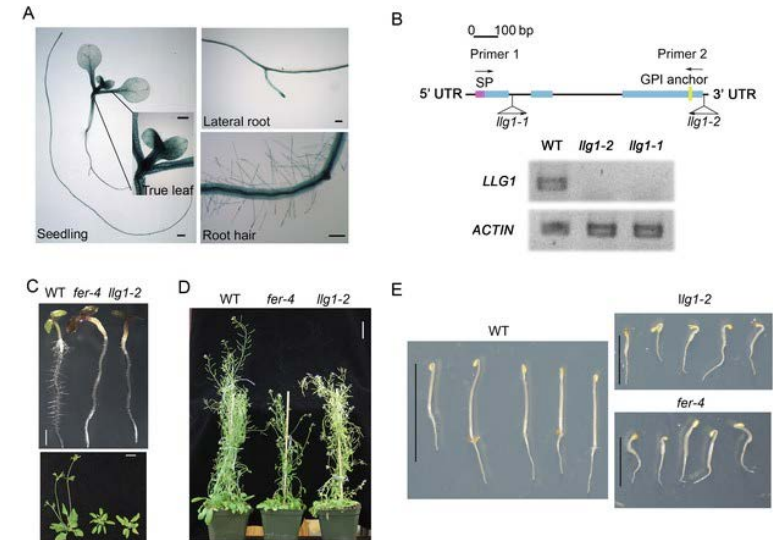




# Alice Cheung

Leading researcher in plant reproduction with a focus on responses to environmental stress.

This research sits at the intersection of agriculture and climate change.



# Elizabeth Vierling

A spotlight scholar at UMass, Professor Vierling studies the molecular quality control systems in plants.

The operation of specialized “chaperone” molecules is not well understood and so her research has broad implications not only for plants but also for human health, especially diseases caused by protein misfolding.

