

Dr. Thiya Mukherjee moved to the United States from India to pursue an advanced degree in Plant Biology, with a focus on developmental biology and biochemistry. As a dedicated plant scientist, her mission is to contribute to sustainable crop improvement, driven by the belief that there is no such thing as 'enough' when it comes to food, fuel, and clothing, especially in the face of a growing global population and climate challenges.

Her research aims to enhance plant development, particularly sink tissues, by optimizing metabolic pathways. During her graduate studies in Dr. Scott Holaday's laboratory at Texas Tech University, Dr. Mukherjee developed a strategy to improve cotton fiber development by manipulating cellulose biosynthesis pathways. She continued her scientific journey with postdoctoral research at Kansas State University, exploring the link between lipid metabolism and epidermal cell development, such as trichomes and root hairs. Later, as a Research Scientist at the Donald Danforth Plant Science Center, she investigated soybean seed metabolism, focusing on how lipid and carbohydrate pathways could be modified to enhance seed development and nutritional value.

The Mukherjee Lab is committed to advancing knowledge on improving oil crop yield and storage composition for better human nutrition.

Join the Mukherjee Lab—let's work together to feed the world!