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Ajeet Chaudhary

- Postdoc, Genetics
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Bio

BIO

I am Research Scientist at Carnegie Institute and currently visiting scholar in the Department of Genetics at Stanford University. My research focuses on understanding how plants perceive and respond to environmental and developmental cues through cell-surface receptor kinase signaling pathways. I combines genetics, proteomics, cell biology, and synthetic biology approaches to uncover mechanisms that regulate plant growth, stress adaptation, and cell wall integrity. I received my Ph.D. from the Technical University of Munich, Germany, where I studied the role of the receptor kinase STRUBBELIG in plant development and cell wall signaling. During my postdoctoral research at the Carnegie Institution for Science and Stanford University, I discovered key mechanisms by which the receptor kinase FERONIA coordinates plant growth with cellular integrity and environmental stress responses. My long-term goal is to translate fundamental discoveries in plant signaling into innovative strategies for engineering climate-resilient crops.