



DR. SUKHBIR SINGH

Associate Professor,
Plant & Soil Science

“My research aims to optimize crop productivity, enhance water and nutrient use efficiency, and improve soil health for profitable production of high-value specialty crops and alternative crops.”

RESEARCH EXPERTISE

- Biotic and abiotic stress physiology
- Sensor-based irrigation management
- Crop modeling (DSSAT)
- Nutrient management
- Cropping systems
- Soil fertility management

PROFESSIONAL PREPARATION

- B.S. Punjab Agricultural University, India, 2008
- M.S. Punjab Agricultural University, India, 2010
- M.S. New Mexico State University, 2013
- Ph.D. New Mexico State University, 2016

FAVORITE ARTICLE

Singh, M., Singh, S., Parkash, V., Ritchie, G., Wallace, R.W., and Deb, S.K. (2022). Biochar implications under limited irrigation for sweet corn production in a semi-arid environment. *Frontiers in Plant Science* 13:853746. [doi:10.3389/fpls.2022.853746](https://doi.org/10.3389/fpls.2022.853746)

“This is one of my favorite articles that I have published with my former graduate student, Dr. Manpreet Singh. We concluded that deficit irrigation can be used as an alternative to full irrigation to save water with a minimal yield penalty for sweet corn production in the West Texas region.”

WHAT MAKES THE DAVIS COLLEGE GREAT?

“Davis College has several unique programs that promote transdisciplinary research across all departments. I feel it is very committed, and does every possible effort to achieve teaching, research, and outreach goals of each department. I also feel that faculty, staff, and students are considered part of a college family.”