

# NAVEEN PUPPALA

## Peanut Breeder

### Education

2003 Ph.D. New Mexico State University, Agronomy

1990 M.S. Tamil Nadu Agricultural University, Agronomy

1987 B.S. Andhra Pradesh Agricultural University, Agronomy

### Research and Professional Experience

2017-present College Professor, Agricultural Science Ctr. at Clovis, New Mexico State University.

2010-2017 College Associate Professor, Agricultural Science Ctr. at Clovis, NMSU.

2004-2010 College Assistant Professor, Agricultural Science Ctr. at Clovis, NMSU.

1999-2004 Agriculture Specialist, Agricultural Science Center at Clovis, NMSU.

### Honors and Service/Leadership

2018-2023 Associate Editor, Journal of Plant Registration.

2014-2015 President-Elect, American Peanut Research and Education Society (APRES).

2011-2013 Associate Editor, Peanut Science

### Refereed Publications (2018-2023)

1. **N. Puppala**, S.N. Nayak, A.Sanz-Saez, C.Y. Chen, M.Jyostna Devi, N. Nivedita, Y. Bao, G.He, Sy M Traore, D.A. Wright, M.K. Pandey and V. Sharma. 2023. Sustaining yield and nutritional quality of peanuts in harsh environments: Physiological and molecular basis of drought and heat stress tolerance. *Frontiers in Genetics* vol 14: <https://doi.org/10.3389/fgene.2023.1121462>
2. Okello, D.K., M. Deom and **N.Puppala**. 2022. Registration of Naronut 2R. *J. Plant Regist.*2022 published online October 2022. DOI: [10.1002/plr2.20248](https://doi.org/10.1002/plr2.20248)
3. Djaman, K., S. Allen, D.S. Djaman, K. Koudahe, S. Irmak, **N. Puppala**, M.K. Darapuneni and S.V. Angadi. 2022. Planting date and plant density affect maize growth, yield, and water use efficiency. *Environmental Challenges* Vol (6). DOI: [10.1016/j.envc.2021.100417](https://doi.org/10.1016/j.envc.2021.100417)
4. Nayak, S.N., B. Aravind, S.S. Malvalli, B.S. Sukanth, R. Poornima, P. Bharati, K. Hefferon, C.Kole and **N. Puppala**. 2021. Omics technologies to enhance plant based functional foods an Overview. *Frontiers in Genetics*. Volume 12 - 2021 | <https://doi.org/10.3389/fgene.2021.742095>
5. Okello, D.K., M. Deom and **N.Puppala**. 2021. Registration of Naronut 2T. *J. Plant Regist.*2021;15:62– 67. DOI: [10.1002/plr2.20086](https://doi.org/10.1002/plr2.20086)
6. Haydee E.L, J. T.Baker, C.Yates, J. R.Mahan, M. D.Burow, **N. Puppala**, D. C.Gitz III, Y. Y. Emendack, N. Layland, G. L.Ritchie, J. Chen, , David T.Tissue and P. R.Payton. 2021. Effect of elevated CO<sub>2</sub> on peanut performance in a semi-arid production region. *Agricultural and Forest Meteorology*. Vol 308-309. DOI: [10.1016/j.agrformet.2021.108599](https://doi.org/10.1016/j.agrformet.2021.108599)

7. Sailaja Bhogireddy; Abishek Xavier; Vanika Garg; Nancy Layland; Renee Arias; Paxton Payton; Spurthi N Nayak; Manish K Pandey; **Naveen Puppala**; Rajeev Varshney. 2020. Genome-wide transcriptome and physiological analysis provide new insights into peanut drought mechanisms. Scientific Reports. March 5, 10(1):4071 DOI: [10.1038/s41598-020-60187-z](https://doi.org/10.1038/s41598-020-60187-z)
8. Shi Meng, Yuqing Tan, Sam Chang,, Jiayu Li, Soheila Maleki, **Naveen Puppala**. 2020. Peanut allergen reduction and functional property improvement by means of enzymatic hydrolysis and transglutaminase crosslinking. Food Chemistry 302: 125186 DOI: [10.1016/j.foodchem.2019.125186](https://doi.org/10.1016/j.foodchem.2019.125186)
9. Dura S., P. Lujan, S. Sanogo, N. Puppala and R. Steiner. 2020. Screening U.S. Peanut MiniCore Accessions for Resistance against Sclerotinia Blight caused by *Sclerotinia sclerotiorum*. Canadian J. of Plant Science. 101 (1), 53-60, (24 July 2020) <https://doi.org/10.1139/cjps-2020-0082>
10. Lauriault, L., and N. Puppala. 2020. Late-season forage harvest on pod and forage components of Valencia market-type peanut. 2020. Peanut Science. 47(2) 66-71.
11. Brandon Tonnis, Ming Li Wang, Xianran Li, Jianping Wang, Naveen Puppala, Shyam Tallury and Jianming Yu. 2020. Peanut FAD2 Genotype and Growing Location Interactions Significantly Affect the Level of Oleic Acid in Seeds. J. Am. Oil Chem Soc. 97:1001-1010.
12. Burow, M., M. R. Baring, J. Chagoya, C. Trostle, **N. Puppala**, C. E. Simpson, J. L. Ayers, J. Cason, A. M. Schubert†, A. Muitia, and Y. López. 2019. Registration of TamVal-OL14 Peanut. Journal of Plant Registration. 13:134-138.
13. Kaur, G., P. Lujan, S. Sanogo, R. Steiner and N. Puppala. 2019. Assessing in Vitro Efficacy of Certain Fungicides to Control *Sclerotinia sclerotiorum* in Peanut. Archives of Phytopathology. 52(1)1-16.
14. Lujan, P., B. Dungan., O. Holguin, J. Randall., **N. Puppala** and S. Sanogo. 2019. The role of carbon sources in relation to pathogenicity of *Sclerotinia sclerotiorum* on Valencia peanut. Canadian J. Plant Science. 99:824-833
15. Renee Arias., Victor S Sobolev, Alicia N Massa, Valerie A Orner, Travis E Walk, Linda L Ballard, Sheron A Simpson, **Naveen Puppala**, Brian E. Scheffler, Francisco de Blas, Guillermo J. Seijo. 2018. New tools to screen wild peanut species for aflatoxin accumulation and genetic fingerprinting. BMC Plant Biology. 18:170.
16. Zurweller, B.A, A. Xavier, B.L. Tillman, J.R. Mahan, P.R. Payton, **N. Puppala** and D.L. Rowland. 2018. Pod Yield Performance and Stability of Peanut Genotypes under Differing Soil Water and Regional Conditions. J. Crop Improvement. 32:4 Pp 532-551.
17. Chamberlin, K. D., and **N. Puppala**. 2018. Genotyping of the Valencia Peanut Core Collection with a Molecular Marker Associated with *Sclerotinia* Blight Resistance. Peanut Science. 45:1 pp 12-18.