

Promoting Hispanic Involvement in Research & Education and Addressing Health Disparities: Texas Tech University Health Sciences Center (TTUHSC)-Reddy's Lab Initiatives and Achievements

At TTUHSC-Reddy lab, we are committed to encouraging Hispanic students' involvement in research and development. We welcome high school, undergraduate, graduate, and medical students to join our research ventures. In Summer 2023, we launched a student consortium for high school and undergraduate students to promote scientific writing. As a result of this consortium, we published five peer-reviewed manuscripts in reputable journals.

Beyond promoting Hispanic student participation in research activities at Dr. Reddy's lab, we have authored numerous articles addressing health disparities in Hispanic populations. We have also advocated for Hispanic caregivers, highlighting their need for support in managing their health and the health of their loved ones. We plan to provide high school students with hands-on research experience in a working lab focused on the study of healthy aging and dementia prevention, with a special emphasis on engaging Hispanic and female students.

Additionally, we organized the second "Healthy Aging and Dementia Research Symposium" on October 25-27, 2023, at Texas Tech University Health Sciences Center. During this three-day event, we discussed the healthcare needs and challenges faced by rural West Texans and their caregivers. Scientists from across the country, along with members of the Hispanic community and students, participated in our symposium.

Below is a list of our lab's recent publications on health disparities and the needs of the Hispanic community.

1. Garcia, R. I., Khemka, S., Roghani, A. K., Reddy, R. P., Pattoor, V., Jacob, M., ... & Reddy, P. H. (2024). **Caring for Individuals with Alzheimer's Disease: A Spotlight on Hispanic Caregivers.** *Journal of Alzheimer's Disease Reports*, 8(1), 877-902.
2. Brownell, M., Sehar, U., Kshirsagar, S., & Reddy, P. H. (2024). **Is Effective Recruitment Strategy Critical to Assess Brain Cognitive Function of Super Agers in Rural West Texas.** *Journal of Alzheimer's Disease Reports*, 8(1), 555-559.
3. Khan, H., Farhana, M., Rafiq, A., Nizia, E.W., Razzaq, R.,.... Reddy, P. H. (2024). **Comparative Study of Risk Factors Associated with Normal Cognition and Cognitive Impairment in Rural West Elderly Texans.** *Journal of Alzheimer's Disease Reports*.
4. Rawat, P., Sehar, U., Bisht, J., Reddy, A. P., & Reddy, P. H. (2023). **Alzheimer's Disease and Alzheimer's Disease-Related Dementias in Hispanics: Identifying Influential Factors and Supporting Caregivers.** *Ageing Research Reviews*, 102178.
5. Basu, T., Selman, A., Reddy, A. P., & Reddy, P. H. (2023). **Current status of obesity: Protective role of catechins.** *Antioxidants*, 12(2), 474.
6. Basu, T., Sehar, U., Selman, A., Reddy, A. P., & Reddy, P. H. (2023, May). **Support provided by caregivers for community-dwelling obese individuals: focus on elderly and Hispanics.** In *Healthcare* (Vol. 11, No. 10, p. 1442). MDPI.

7. Rawat, P., Sehar, U., Bisht, J., & Reddy, P. H. (2023). **Support provided by caregivers for community-dwelling diabetic hispanic adults with intellectual disabilities and comorbid conditions.** *International Journal of Molecular Sciences*, 24(4), 3848.
8. Bisht, J., Rawat, P., Sehar, U., & Reddy, P. H. (2023). **Caregivers with cancer patients: focus on hispanics.** *Cancers*, 15(3), 626.
9. Sehar, U., Rawat, P., Choudhury, M., Boles, A., Culberson, J., Khan, H., ... & Reddy, P. H. (2023). **Comprehensive understanding of Hispanic caregivers: Focus on innovative methods and validations.** *Journal of Alzheimer's Disease Reports*, 7(1), 557-574.
10. Khan, H., Rasmussen, D., Gittner, L., Rafiq, A., Blakely, S., Shabaneh, O., & Reddy, P. H. (2022). **Gender differences in prevalence of myocardial infarction in rural West Texans.** *Journal of Public Health*, 1-13.
11. Khan, H., Rafiq, A., Palle, K., Faysel, M., Gabbidon, K., Chowdhury, M., & Reddy, P. H. (2021). **Sex differences in cardiovascular disease and cognitive dysfunction in rural west elderly Texans.** *Journal of Alzheimer's disease reports*, 5(1), 213-226.
12. Khan, H., Rasmussen, D., Gabbidon, K., Palle, K., Rafiq, A., Faysel, M., ... & Reddy, P. H. (2021). **Disparities in breast cancer survivors in rural West Texas.** *Cancer Control*, 28, 10732748211042125.
13. Sheladia, S., & Reddy, P. H. (2021). **Age-related chronic diseases and Alzheimer's disease in Texas: a Hispanic focused study.** *Journal of Alzheimer's Disease Reports*, 5(1), 121-133.
14. Reddy, P. H. (2019). **Lifestyle and risk factors of dementia in rural West Texas.** *Journal of Alzheimer's Disease*, 72(s1), S1-S10.
15. Khan, H., Rafiq, A., Shabaneh, O., Gittner, L. S., & Reddy, P. H. (2019). **Current issues in chronic diseases: A focus on dementia and hypertension in rural west Texans.** *Journal of Alzheimer's Disease*, 72(s1), S59-S69.