

Although a single mutation can seem inconsequential, Toshiya Oba and colleagues conducted a study in which the effect of an AD related mutation on a Microtubule affinity-regulating kinase 4 (MARK4) gene revealed that it can drastically worsen neurodegeneration and promote tau protein acc

- Hanger, D. P., Anderton, B. H., & Noble, W. (2009). Tau phosphorylation: the therapeutic challenge for neurodegenerative disease. *Trends in molecular medicine*, 15(3), 112–119.
- Hooper, C., Killick, R., & Lovestone, S. (2008). The GSK3 hypothesis of Alzheimer's disease. *Journal of neurochemistry*, 104(6), 1433–1439.
- Langer-Safer, P. R., Levine, M., & Ward, D. C. (1982). Immunological method for mapping genes on *Drosophila* polytene chromosomes. *Proceedings of the National Academy of Sciences of the United States of America*, 79(14), 4381–4385.
- Lund, H., Gustafsson, E., Svensson, A., Nilsson, M., Berg, M., Sunne-mark, D., & Von Euler, G. (2014). MARK4 and MARK3 associate with EARLY Tau phosphorylation in ALZHEIMER'S disease granulovacuolar degeneration bodies.