

Understanding the role of polyamines during tauopathies

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Tau (microtubule stabilizing protein)

- * misfolds and aggregates
- * associates > 15 tauopathies with their own unique pattern of neurodegeneration and clinical manifestation
- * normally tau is in neuronal axons but mis-locates to dendrites and cell body
- * tau can aggregate within neurons forming neurofibrillary tangles
- * tangles are virtually indestructible. Leave "tombstone tangle" after neuron dies
- * tau mutations cause Pick's disease, Progressive Supranuclear Palsy, Corticobasal Degeneration (frontal lobe dementia; distinct from Alzheimer's Disease)

Other topics:

- * tau directed therapeutic approaches
- * what do polyamines do?
- * tau aggregation-polyamine dysfunction hypothesis