

Summary of Research Program:

My laboratory has focused on the noradrenergic nervous system in Alzheimer's Disease (AD) and Parkinson's Disease (PD). The focus has been the consequence of the loss of the noradrenergic neurons in the locus coeruleus (LC). To generate an animal model of LC neuronal loss, stereotaxic surgery is used. In the past we had characterized what changes occur in the surviving LC neurons and the rest of the brain. Now, we are moving forward to determine what behavioral changes are associated with the loss of LC neurons and how it could contribute to the progression of both AD and PD. We are examining the effect of LC loss on depression and cognition.

More recent work, my laboratory has begun to examine inflammatory markers in the CNS following Traumatic Brain Injury (TBI). Understanding what factors alter these proteins can also have great implication in AD and PD.



Patricia Szot, PhD

[Faculty Profile](#)