

the brain, through orchestrating long-

day (P)25 or P45) for anxiety-like behavior, and blood for corticosterone (stress hormone) analysis and brain tissue from the Prefrontal Cortex (PFC), Bed Nucleus of the Stria Terminalis (BNST), and Basolateral Amygdala (BLA) was saved for global methylation and PV-specific analyses. This year, I developed and optimized a protocol for the purification of DNA from rat brain tissue using the Qiagen DNAeasy Blood and Tissue Purification kits and utilized this kit and protocol to purify DNA from 240 tissue samples this summer. The DNA from PFC samples was run on a 5-mC methylation ELISA, to quantify global changes in DNA methylation. We found no significant changes in PFC global methylation dependent on condition, but in P25 (juvenile) ELA males compared to juvenile control males, there were lower global levels of 5-mC methylation which trended towards significance. Interestingly, preliminary immunohistochemistry (IHC) results show that ELA males exhibited a significant increase in 5-mC intensity in the PFC in

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References:

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