

FORMER SUMMER INTERN IS PH.D. CANDIDATE

Matthew Glover, a 2010 WV-INBRE summer intern from Shepherd University, is



currently a 4th year Ph.D. candidate in the Neuroscience Graduate Program at the University of Alabama at Birmingham. Matt joined Sarah Clinton's lab in the Fall of 2011. His dissertation research is geared to identifying the molecular mechanisms that underlie susceptibility to perinatal selective serotonin reuptake inhibitors (SSRIs). He utilizes the selectively bred Low Novelty Responder (bLR) and High Novelty Responder (bHR) rat model.

These animals innately display differential susceptibility to perinatal SSRIs, with SSRI-exposed bLRs exhibiting increased depression-like behavior in adulthood, while bHRs appear resistant to the behavioral effects of maternal SSRI use. He is using a variety of methods including HPLC, design-based stereology, and qPCR to 1) identify novel antecedents that confer perinatal SSRI susceptibility vs. resistance in their model organism and 2) determine the long-term neurological changes that underlie the increased depression-like behavior observed in SSRI-exposed bLRs. While a WV-INBRE summer intern, Matt worked in the lab of Dr. James O'Donnell at WVU; his project was entitled "Monoamine Transporter Regulation Correlates With Anti-Depressant Behavior in Rats".