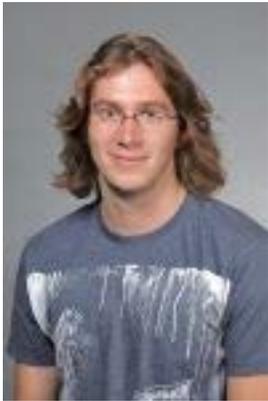


FORMER SUMMER INTERN IS PH.D. CANDIDATE

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".

UPDATE ON FORMER INTERNS: PHILIP ADAMS

Former WV-INBRE summer intern, Philip Adams, is currently a Ph.D. candidate at the University of Central Florida, College of Medicine's Burnett School of Biomedical Sciences. He is working in the laboratory of Dr. Mollie Jewett. The broad research area of his lab is gene regulation and pathogenesis of *Borrelia burgdorferi*, the causative agent of Lyme disease. His thesis topic is understanding the role of RNA regulatory elements throughout the *B. burgdorferi* lifecycle. Philip most recently spent the summer working with collaborators at the University of Vienna in Vienna, Austria, where he trained in the prestigious laboratory of Dr. Renee Schroeder. This training will help in studying and measuring the amount of specific RNA molecules in the bacterial cell. "These techniques will allow Philip and my lab to ask and answer questions about those genes that are specifically required for *Borrelia burgdorferi* to cause disease," said Dr. Jewett. "There were students from Austria, Russia, Poland, Germany, Czech Republic, Croatia and Italy," said Adams who was impressed with the collaborative nature of his international learning experience. He also had an opportunity to present his research in a talk entitled "*Ticks to Humans: delineating gene regulation during Lyme disease*" in a seminar series at the University of Vienna. "It was a fantastic life experience for Philip. He returns to my lab with even greater confidence in himself and his science," said Dr. Jewett. Philip earned his undergraduate degree from West Virginia Wesleyan College.

