Here is a listing of the Belmont University research projects that were presented at the conference:

“The Effects of Glucose, Saccharine, Aspartame, and Sucralose on Longevity in *Caenorhabditis elegans*”  
Emily Deas  
Faculty Advisor: Robert Grammer, Ph.D.

“The Effects of Increasing Dosages of α-Lipoic Acid on the Chemotaxis Index of *Caenorhabditis elegans* at Adulthood”  
Ambrose Rice  
Faculty Advisor: Robert Grammer, Ph.D.

“The Effect of Caffeine Concentration and Time of Exposure on *C. elegans* Locomotion towards an Attractant”  
Julisa Nunez  
Faculty Advisor: Robert Grammer, Ph.D.

“The Effectiveness and Precision of Capillary Assays for *Caenorhabditis elegans*”  
Alyssa Tidwell  
Faculty Advisor: Robert Grammer, Ph.D.

“*Caenorhabditis elegans* and their Habitats”  
Jemeilise Guzman  
Faculty Advisor: Robert Grammer, Ph.D.

“Determining *C. elegans* Chemotaxis to Cervical Cancer to Expand on the Nematode Scent Detection Test – A Cancer Screening System”  
Parker Tumlin  
Faculty Advisor: Robert Grammer, Ph.D.

“Appetite-Stimulating Effects of Herbal Root, *Gentiana lutea*, on *Caenorhabditis elegans*”  
Sarah Trippett  
Faculty Advisor: Robert Grammer, Ph.D.

“The addictive effects of nicotine on *Caenorhabditis elegans*”  
Jud Wisdom  
Faculty Advisor: Robert Grammer, Ph.D.

“Chemotaxis Assay of *Caenorhabditis elegans* to *Bacillus thuringiensis* strain 4A4 in Vegetative and Sporulated Growth Stages”  
Angel Brothers  
Faculty Advisor: Robert Grammer, Ph.D.

“Biodiversity of macroinvertebrates in a first order spring-fed stream on the Belle Forest Cave property, Bellevue TN”  
Walter Burn  
Faculty Advisor: Darlene Panvini, Ph.D.

“The relationship between exotic earthworms, exotic plants, and soil and leaf litter invertebrate abundance and diversity”  
Sara Haney  
Faculty Advisor: Darlene Panvini, Ph.D.

“Differences in leaf pack decomposition rate between invasive exotic and native species in a temperate deciduous forest”  
Lindsay Millward  
Faculty Advisor: Darlene Panvini, Ph.D.

“Abundance of earthworms relative to leaf litter mass and exotic plant coverage”  
Laura Horton  
Faculty Advisor: Darlene Panvini, Ph.D.

“Comparisons of water quality and macroinvertebrate diversity in Richland Creek (Nashville, TN) – an urban stream undergoing riparian restoration”  
Alexandria Jeffers  
Faculty Advisor: Darlene Panvini, Ph.D.
“Biomass and diversity of earthworms is affected by presence of exotic shrubs”
Ayda Porkar-Rezaeieh Faculty Advisor: Darlene Panvini, Ph.D.

“Decomposition of *Acer saccharum* and *Lonicera maackii* leaf litter in a first order stream”
Katlin Stodard Faculty Advisor: Darlene Panvini, Ph.D.

“Circadian Rhythm Dependence of Habituation in *C. elegans*”
Chase Mackey Faculty Advisor: Nick Ragsdale, Ph.D.

“Potential Protective Effects of Nicotine in *C. elegans* Treated with 6-OHDA”
Miranda West Faculty Advisor: Nick Ragsdale, Ph.D.

“The Effect on ATP levels of *Caenorhabditis elegans* from a *Staphylococcus aureus* Infection.”
Parin B. Patel Faculty Advisor: Nick Ragsdale, Ph.D.

“*Caenorhabditis elegans* response to hyperglycemic and hypoxic conditions post infection with *Staphylococcus aureus*.”
Bryan Eoff Faculty Advisor: Nick Ragsdale, Ph.D.

“Utilization of alpha-lipoic acid as an antioxidant in the presence of 6-OHDA.”
Danielle Aument Faculty Advisor: Nick Ragsdale, Ph.D.

“Implications of Parkinson’s Disease in Nematodes Treated with the Insecticide Permethrin.”
Dora Geving Faculty Advisor: Nick Ragsdale, Ph.D.

“Role of Fatty Acid Metabolism and the Development of Parkinson’s Disease.”
Zara Latif Faculty Advisor: Nick Ragsdale, Ph.D.

“p53 Mediated Regulation of CCNH in Response to Paclitaxel-Induced Mitotic Stress”
Taele Dahm and Morgan B. Turner Faculty Advisor: Chris Barton, Ph.D.

“A Study of Tumor Suppressor p53’s Potential Role in the Upregulation of MARCKS Transcription”
Nelly Grigorian Faculty Advisor: Chris Barton, Ph.D.

“Effect of p53 Status on S100A13 Expression in Response to Oxidative Stress”
Jeffrey E. King Faculty Advisor: Chris Barton, Ph.D.

“Investigation of the Regulation of CST6 by p53 During Cellular Stress”
Jasmin Mohn and Robin Weyman Faculty Advisor: Chris Barton, Ph.D.

“Transcriptional Regulation of RGS2 by p53 in Colorectal Cancer Cells”
Vian Pulous Faculty Advisor: Chris Barton, Ph.D.

“Transcription Factor p53 and its Regulation of Pro-Apoptotic Gene BNIP3L during Heat Shock”
Eeleyah Singh Tanwar Faculty Advisor: Chris Barton, Ph.D.