



**Dr. Kirsten Crossgrove**

Associate Professor

Biological Sciences

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**Education:**

B.A. in Biology and Neuroscience from  
Oberlin College

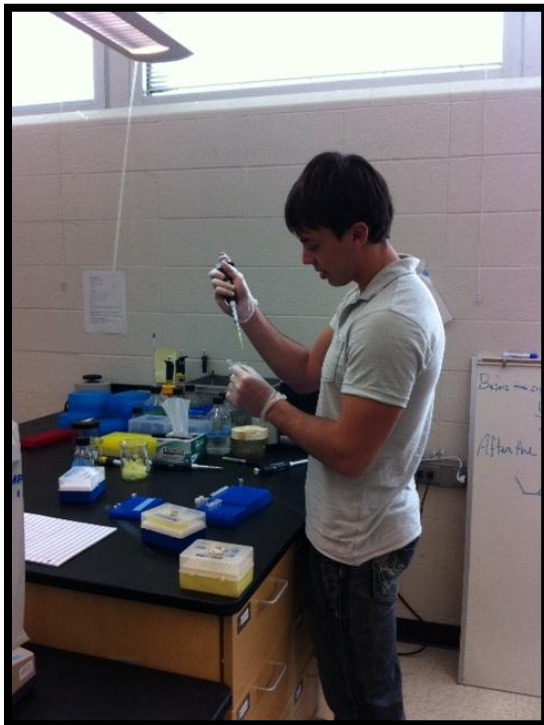
Ph.D. in Molecular Biology from the  
University of Pennsylvania,

**Current Research Projects:**

- We are conducting a functional analysis of the *Brugia malayi* DAF-16 protein, a target of the insulin signaling pathway, in collaboration with Dr. Chris Veldkamp (Department of Chemistry). We are analyzing the ability of *Bm*-DAF-16 to bind to specific DNA sequences, while Dr. Veldkamp is using NMR to study the solution structure of the DNA binding domain.
- We are developing DNA constructs to use in cell culture assays to test the ability of the *Bm*-DAF-16 protein to activate transcription of a target gene.
- We are developing DNA constructs to test whether the *Brugia malayi* DAF-9 protein, a predicted cytochrome P450 enzyme, can rescue *daf-9* mutations in the free-living nematode *Caenorhabditis elegans*.
- We are using quantitative Real Time Polymerase Chain Reaction (qPCR) to look at the degradation of DNA in hair exposed to different soil conditions.

**Please visit my faculty webpage if you are interested in learning more:**

<http://facstaff.uww.edu/crossgrk/>



**Student Testimonials**

Tyler Brown (2013): "I really enjoyed doing research at UW-Whitewater. It was a great experience that allowed me to apply what I had learned in class. One of the nice things about Whitewater is its smaller size allows students to work one on one with the professors doing in the lab. I received a grant from Whitewater to do my research and was able to present it at several conventions. If I were to go back, I would have started sooner than I did."