



Dr. Kirsten Crossgrove

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Biological Sciences

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Education:

B.A. in Biology and Neuroscience from
Oberlin College

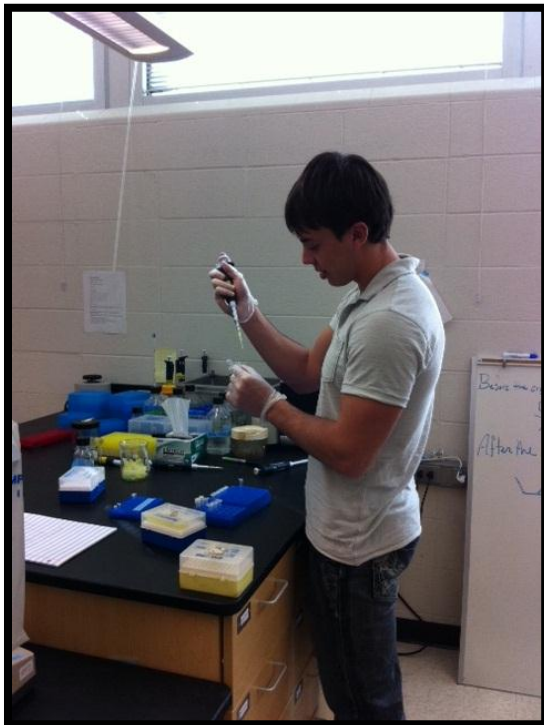
Ph.D. in Molecular Biology from the
University of Pennsylvania,

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."