

2023 MU VRSP mentor profile form

Mentor	Daniel Davis
Departmental bio web page.	https://cvm.missouri.edu/veterinary-pathobiology/faculty/daniel-j-davis-phd/
Other relevant web pages, as applicable. E.g., lab group/personal web page, Google Scholar/ORCID profiles, others	
Research interests.	Animal modeling, molecular genetics, genetic engineering, CRISPR-Cas technology, rare disease research
Active projects.	My lab has projects focused on the development and optimization of new genetic engineering techniques such as using electroporation and adeno-associated virus (AAV) to deliver genetic editing tools into rodent embryos while also comparing different DNA repair template designs. My lab also has projects focused on the study of a rare neurodevelopmental disorder (Baker-Gordon syndrome) caused by mutations in the <i>SYT1</i> gene.
Research team. E.g., graduate students, post docs, technicians, other scholars	Graduate students, undergrads, technicians, PhD-level scientists. We collaborate with a number of researchers at MU as well around the country on grant-funded projects.
About you... Education/training Personal information, as interested—e.g., hobbies, etc.	BS in Cell & Molecular Biology (2008 – Missouri State University) PhD in Area Pathobiology (2016 – University of Missouri) Assistant Research Professor – Department of Veterinary Pathobiology Assistant Director – Animal Modeling Core I live in Ashland, MO. Married with 2 children, Nolan (age 10) and Olivia (age 5). I have a beagle named Daisy. Hobbies: Outdoors, sports (coach my son’s traveling baseball team), fishing/hunting, riding horses. M-I-Z

Mentor Profile

I am available to mentor students in career and life decisions, even if they do not choose research.

Very Untrue 1 --- 2 --- 3 --- **4** --- 5 Very True

My students are/can be involved in the creation/development of their projects.

Very Untrue 1 --- 2 --- 3 --- **4** --- 5 Very True

I expect students to contribute to manuscripts/publications.

<p>Very Untrue 1 --- 2 --- 3 --- 4 --- 5 Very True</p>	
<p>Students have the option to continue to work on this project.</p> <p>Very Untrue 1 --- 2 --- 3 --- 4 --- 5 Very True</p>	
<p>My students often work closely with a research team, e.g., lab tech or other students.</p> <p>Very Untrue 1 --- 2 --- 3 --- 4 --- 5 Very True</p>	
<p>I frequently touch base with my research team—e.g., students, technicians, etc.</p> <p>Very Untrue 1 --- 2 --- 3 --- 4 --- 5 Very True</p>	
<p>My mentoring style is very hands off.</p> <p>Very Untrue 1 --- 2 --- 3 --- 4 --- 5 Very True</p>	
<p>Current/active project profile & timeline, including clinical vs. basic science.</p>	<p>Projects typically involve both basic science and clinical (lab animal) components. We tailor the project to the individual based on their interests and time commitment. Most projects are part of a larger project with the same overarching goal.</p>
<p>Lab structure, if applicable.</p>	<p>I have a small research lab currently with 2 students (one CMP resident and one undergraduate). The Animal Modeling Core that I oversee has a full-time research technician that also helps train students. My lab is highly collaborative, so students often have the opportunity to work with many different individuals among the various groups/labs at Discovery Ridge and on campus.</p>
<p>What does a typical day of research look like for VRSP scholars?</p>	<p>Hands on in the lab performing experiments or in the vivarium working with animals. Working both independently and with others depending on the specific task. Attending relevant lab meetings and reading relevant literature.</p>
<p>What does engagement look like for your lab/project?</p>	<p>Being actively involved in hands on tasks, taking advantage of opportunities to learn new techniques, asking questions, looking up information as needed, contributing to discussions, being excited about generating and analyzing data and sharing results with others.</p>