2022 MU VRSP mentor profile form

Mentor	**Doug Bowles**
Departmental bio web page.	**https://biomed.missouri.edu/douglas-k-bowles-phd/**
Other relevant web pages, as applicable. E.g., lab group/personal web page, Google Scholar/ORCiD profiles, others	
Research interests.	**Atherosclerosis, smooth muscle proliferation, migration, ion channels**
Active projects.	**Role of KCa3.1 in atherosclerosis**
Research team. E.g., graduate students, post docs, technicians, other scholars	**technicians**
About you… Education/training Personal information, as interested—e.g., hobbies, etc.	I was born and raised in south central Kansas. Besides Columbia, I have lived in Lawrence, KS; Manhattan, KS and Austin, TX. I got my undergraduate degree in Biochemistry from Kansas State University and stayed to get a Master's in Exercise Physiology. I then got my Ph.D. in Exercise Physiology at the University of Texas-Austin, studying the protective effects of exercise on ischemia/reperfusion (a.k.a. heart attack). I then came to Columbia, MO for a "temporary" postdoctoral fellowship and over 25 years later, I'm still here as a Professor in Biomedical Sciences. My research focuses on the role of ion channels in vascular smooth muscle in atherosclerosis (heart disease). My wife (who I met in Austin) and I have one son. We enjoy staying active by backpacking, fly fishing, snowboarding/skiing and golf.

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. Very Untrue 1 --- 2 --- 3 --- 4 --- 5 Very True
Students have the option to continue to work on this project. Very Untrue 1 --- 2 --- 3 --- 4 --- 5 Very True
My students often work closely with a research team, e.g., lab tech or other students. Very Untrue 1 --- 2 --- 3 --- 4 --- 5 Very True
I frequently touch base with my research team—e.g., students, technicians, etc.

Very Untrue 1 --- 2 --- 3 --- 4 --- 5 Very True	
My mentoring style is very hands off. Very Untrue 1 --- 2 --- 3 --- 4 --- 5 Very True	
Current/active project profile & timeline, including clinical vs. basic science.	Lab will have primarily cell-culture experiments going during the summer as the mouse experiments timelines are too long. These involve basic biochemical/molecular studies (qRT-PCR, etc) on cell cultures to answer basic cell biology questions.
Lab structure, if applicable.	Bench type lab
What does a typical day of research look like for VRSP scholars?	Managing cell cultures, running experiments, harvesting cells, isolating running qRT-PCR, etc.
What does engagement look like for your lab/project?	Running experiments, contributing ideas for new experiments if the student desires; compiling data, analyzing and interpreting results. Ideally, the student is the “boss” of the project and I assist.