

2022 MU VRSP mentor profile form

Mentor	Laurel A. Grisanti
Departmental bio web page.	https://biomed.missouri.edu/laurel-a-grisanti-ph-d
Other relevant web pages, as applicable. E.g., lab group/personal web page, Google Scholar/ORCID profiles, others	https://www.ncbi.nlm.nih.gov/myncbi/10qDjhr5tkQs/bibliography/public/
Research interests.	Heart Failure, Inflammation, G Protein-Coupled Receptors
Active projects.	<p>One focus of my laboratory is investigating how adrenergic receptors regulate immune cell function to contribute to heart failure pathogenesis and the potential of targeting these responses as a treatment for heart failure. Current active areas of investigation is the role of macrophage β-adrenergic receptors in regulating macrophages differentiation and phenotype, the involvement of β-adrenergic receptors in regulating T lymphocyte proliferation to impact cardiac fibrosis and the role of β-adrenergic receptors in neutrophil recruitment and transmigration. These studies use in vitro, ex vivo and murine models of ischemic and non-ischemic heart failure to elucidate the role of β-adrenergic receptors on these individual immune cell populations.</p> <p>Another avenue of active investigation in my laboratory is identifying novel molecular mechanisms of heart failure in an effort to design new therapeutic strategies. A current focus is on death receptor 5, which is highly expressed in the heart but had never been investigated. Ongoing studies are examining the role of death receptor 5 in cardiomyocyte, cardiac fibroblast and cardiac immune cell populations with a focus on cell survival and death, proliferation, hypertrophy and fibrosis using in vitro, ex vivo and mouse heart failure models.</p>
Research team. E.g., graduate students, post docs, technicians, other scholars	1 Technician 1 TBD Postdoctoral Fellow
About you... Education/training Personal information, as interested—e.g., hobbies, etc.	B.A. Willamette University, Salem, OR Ph.D. University of North Dakota, Grand Forks, ND Postdoctoral Fellowship, Temple University, Philadelphia, PA
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 -- <input checked="" type="radio"/> 5 Very True	
My students are/can be involved in the creation/development of their projects.	

<p>Very Untrue 1 --- 2 --- 3 --- 4 <input checked="" type="radio"/> 5 Very True</p>	
<p>I expect students to contribute to manuscripts/publications.</p> <p>Very Untrue 1 --- 2 --- 3 - <input checked="" type="radio"/> 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 - <input checked="" type="radio"/> 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 - <input checked="" type="radio"/> 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 <input checked="" type="radio"/> 5 Very True</p>	
<p>My mentoring style is very hands off.</p> <p>Very Untrue 1 --- 2 --- 3 - <input checked="" type="radio"/> 4 --- 5 Very True</p>	
<p>Current/active project profile & timeline, including clinical vs. basic science.</p>	<p>The overall projects are ongoing with smaller individual projects that can take days or weeks depending on the specific question.</p>
<p>Lab structure, if applicable.</p>	<p>Typical biomedical science lab structure with lab benches for experiments, equipment areas, animal surgery area, cell culture area and work spaces for desk work.</p>
<p>What does a typical day of research look like for VRSP scholars?</p>	<p>A typical day will vary depending on what is going on in the lab but will include reading scientific literature, learning experiments from others in the lab, performing experiments as capable, discussing research and lab meetings.</p>
<p>What does engagement look like for your lab/project?</p>	<p>Actively participating in whatever is going on that day whether it be learning a new technique, performing experiments at the bench or reading the literature related to the project.</p>