

2022 MU VRSP mentor profile form

Mentor	Charles Maitz
Departmental bio web page.	https://www.murr.missouri.edu/about/people/240/
Other relevant web pages, as applicable. E.g., lab group/personal web page, Google Scholar/ORCID profiles, others	https://scholar.google.com/citations?user=fPB70VJQgioC&hl=en
Research interests.	Radiation Biology, DNA Damage Repair, Radiopharmaceuticals
Active projects.	Comet Assay to assess DNA repair in canine cancer cell lines; gH2AX nuclear foci to assess DNA damage and repair in canine cancer cell lines; LnPO4 nanoparticles for radiopharmaceutical delivery; Boron Neutron Capture for Infection Control of implanted medical devices
Research team. E.g., graduate students, post docs, technicians, other scholars	
About you... Education/training Personal information, as interested—e.g., hobbies, etc.	DVM, University of Missouri (2009) PhD, Chemistry, University of Missouri (2014) Diplomate ACVR-Radiation Oncology (2014) Father of 3 girls, former MU water polo player, fan of Blues hockey, and avid auto enthusiast.

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 --- --- 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 --- --- 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 --- --- 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 --- --- 5 Very True

<p>Current/active project profile & timeline, including clinical vs. basic science.</p>	<p>I have one resident working on DNA repair kinetics in feline oral squamous cell carcinoma. Using this same model, I would like to evaluate a number of different cell lines using a variety of different radiobiologic techniques. The timeline for these other lines and techniques is continual.</p>
<p>Lab structure, if applicable.</p>	<p>Currently, I have little dedicated research time (I am the only on site clinical radiation oncologist), so the lab structure is fairly non-traditional. That said, I work within the Comparative Oncology, Radiobiology, and Epigenetics Laboratory (COREL) and we take a team-based approach to mentorship, particularly as it pertains to the VRSP. Anita Rogic is our research specialist who runs the day-to-day happenings in the COREL.</p>
<p>What does a typical day of research look like for VRSP scholars?</p>	<p>Reading and planning for radiation experiments which would likely occur every week or two. The remaining time would be spent analyzing data and in preparation of the experiments.</p>
<p>What does engagement look like for your lab/project?</p>	<p>Evidence of commitment to the project. A little bit of organization goes a long way and is of great importance to the scientific method. Aside from thorough reading and documentation, asking good, thoughtful questions is the main indicator of engagement in this project. A simple radiation biology experiment could have a lot of details to tease out of it, and small variations in study design could lead to a significantly difference in which questions are answered.</p>