



*The Office of Research for Medical Students*

### Research Project

#### Project Title:

Targeting regulatory mechanisms of brain cancer resistance to treatment

**Date of request:** 08/06/2024

#### Contact Information

**Full Name:** Mariano Viapiano, PHD

**Title:** ASSOC PROFESSOR HS

**Department:** Neuroscience & Physiology

**Phone number:** 315 464 7967

**Office:** Institute for Human Performance (IHP) 4707

**Email:** viapianm@upstate.edu

### Research Project

Our laboratory studies mechanisms that regulate the progression and therapy resistance of brain cancers. Current projects are focused on a) investigating the regulation of immune responses against gliomas; and b) identifying novel mechanisms that promote resistance to chemo- and radiotherapy. Projects are basic/translational in nature, with emphasis on cellular and molecular mechanisms in the tumor cells and microenvironment.

**Research Location:** IHP Rm 4737 / 4119

**Tele-research/remote opportunity?** No

**Will it require student to be physically present in the research location:** Yes

**Type of research:** Translational

**Summer project?** Yes

**Long-term project:** Yes

**Availability required to work on your project(s):**

Expected hours/week will be discussed based on project priorities and student schedule

**Prior experience or specific skills required to work on your project(s):**

- Applicants must have prior laboratory experience, with preference for: cell biology or immunology.
- Detailed description of prior research activities is required.
- Desirable technical skills include one or more of: RNA and protein analysis (PCR/Western); immunohistochemistry; cell culture; and microscopy.
- Laboratory experience with cultured mammalian cells and/or mouse models of cancer will be a plus.
- Students with experience in cancer bioinformatics can also contact the lab to discuss semi-remote projects that do not involve wet-lab work.