FACULTY-STUDENT PROJECTS ADVANCE BIOMEDICAL RESEARCH AT RIVIER

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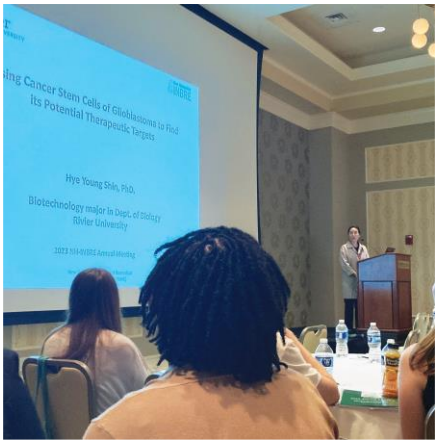

The University achieved full Partner membership in the New Hampshire INBRE (IDeA Network of Biomedical Research Excellence) Network this year. Supported by funding from the National Institutes of Health, the program supports outstanding faculty researchers and promising undergraduate students at Partner institutions to lead and advance top-level biomedical research.

Science faculty members **Dr. Tatiana Jones**, **Dr. Hye Young Shin**, and **Dr. Brian Patenaude** were each awarded New Hampshire INBRE grants for summer 2023 research projects. In addition to

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supporting biomedical research, these grants include a stipend for Rivier student-researchers to develop their laboratory skills in the Science and Innovation Center on campus.

Researchers **Dr. Jones**, **Dr. Patenaude**, **Alexandria Williams '24**, and **Kayla Lyle '24** engaged in an immunology research project titled *Self-extracellular (ex)RNA Downregulates Proinflammatory Profile of Activated Macrophages.*

Dr. Shin, **Dyasia Casado '24**, and **Leah Nelson '26** worked together on a project identifying key regulators of brain cancer stem cells titled *Targeting Overexpressed Cytokines as Potential Therapeutics to Target the Glioma and Glioblastoma Patients.*

Dr. Patenaude, **Dr. Jones**, and **Irelynn Mullen '25** conducted bacterial infection prevention research on the *Incorporation of Zinc-Porphyrin into Poly(ethylene terephthalate) and Poly(methyl methacrylate) Plastics for the Photodynamic Inactivation of Staphylococcus aureus.*

Research projects and findings were presented at the state-wide New Hampshire INBRE annual meeting. **Alexandria Williams '24** placed first in poster presentations, and **Dr. Shin** and **Dr. Jones** represented the University as selected speakers.

Detailed information on these research projects can be found at *www.rivier.edu/INBRE2023*. ■