



## BIOTECHNOLOGY RESOURCES

### **Marshall University Nutrition and Cancer Center**

[www.marshall.edu/cncc](http://www.marshall.edu/cncc)

Investigators at this National Institutes of Health-funded Center of Biomedical Research Excellence are studying a wide variety of dietary components— including omega-3 fatty acids, capsaicin (responsible for the “hotness” of chili peppers) and alcohol—and their relationships to small cell lung cancer, breast cancer, skin cancer and leukemia/lymphoma.

### **Forensic Science Center**

<http://forensics.marshall.edu>

The Marshall University Forensic Science Center is a national leader in forensics education, training, DNA testing and research. The center’s state-of-the-art DNA laboratories are nationally accredited and its master’s degree program is ranked among the best in the country. Its training laboratories feature cutting-edge forensics DNA equipment—including genetic analyzers and automation robots—to provide practical, hands-on laboratory experience.

The center’s Crime Scene House and its grounds serve as a living laboratory, giving instructors an opportunity to teach crime scene investigation techniques including entry procedures, photography, evidence documentation and collection, latent fingerprint development techniques, blood spatter pattern analysis and grave excavation.

### **Marshall Institute for Interdisciplinary Research**

[www.marshall.edu/miir](http://www.marshall.edu/miir)

Created through the state’s West Virginia Research Trust Fund, the institute provides an innovative business platform that connects and fosters integrative research across multiple disciplines.

Scientists at the institute are developing a focused program of pioneering biotechnology research dedicated to producing patentable scientific breakthroughs and creating new high-tech businesses based on those discoveries. Research is directed with licensable endpoints in mind and corporate partners play important roles in selecting and developing projects that have commercial potential.

### **Robert C. Byrd Biotechnology Science Center**

[www.marshall.edu/campus/virtualtour.asp?id=34](http://www.marshall.edu/campus/virtualtour.asp?id=34)

Designed to facilitate interdisciplinary research between the College of Science and the university’s medical school, this state-of-the-art research and educational facility houses biomedical scientists and their students studying cancer, cardiovascular disease and other conditions prevalent in West Virginia.

The facility features classrooms, teaching and research labs, and the university’s biomedical core facilities—including sophisticated imaging, genomics and flow cytometry labs. The center is also home to the Marshall Institute for Interdisciplinary Research.

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## **West Virginia IDeA Network of Biomedical Research Excellence**

*www.wv-inbre.net*

This National Institutes of Health-funded institute is establishing a consortium of the undergraduate institutions in West Virginia—with the goal of enhancing their capacity for educating and training faculty and students in biomedical research.

The principal focus of research at the institute is cardiovascular disease and cancer.

## **Biomedical Research Core Facilities**

*http://bms.marshall.edu/core\_facilities*

These centralized laboratories—all located in the Robert C. Byrd Biotechnology Science Center—provide state-of-the-art resources to facilitate biomedical research.

The core facilities include a genomics lab, a microscopy lab and a flow cytometry lab. The services of these labs are available to the university community, as well as to government, business and industry.

## **Cell Differentiation and Development Center**

*www.marshall.edu/cddc*

The multidisciplinary research groups within this center focus mainly on the mechanisms that govern cellular differentiation and development.

The center's members are engaged in the fields of aging, diabetes, cardiovascular disease, muscular dystrophies, in vivo and in vitro pharmacological testing, nanomolecular biomotors, transcriptional regulation and protein chemistry.