CENTER FOR BIOMEDICAL RESEARCH (CBR)

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The Center for Biomedical Research (CBR) is a multidisciplinary research center. The Center for Biomedical Research (CBR) provides a platform and opportunity for scientists (natural, social and behavioral), engineers, and humanists to collaborate on innovative research that improves human health and provides multidisciplinary educational opportunities for our students.

The objectives of the CBR are to:

- Promote interdisciplinary collaboration that enhances the rate of scientific discovery and technological advances to develop the next generation of biomaterials and biomedical devices
- Enhance facilities and equipment for research in biomaterials and biomedical devices
- Develop research and education programs to train the next generation of biomedical/biomaterials engineers, providing a future workforce for the vital biotechnology industry in Missouri and the US
- Promote technology transfer and entrepreneurship to commercialize new knowledge, which should improve patient outcomes and expand economic development in Missouri and the US

Key research and development areas include:

- Bioactive glass science and engineering
- Biomaterials for bone repair, wound healing and tissue engineering application
- Nanoparticles for drug delivery and cancer detection
- Biomarkers for early detection of cancer
- Biosensors and bioimaging devices to monitor tissue healing and healthcare
- Biofabrication of implants and medical devices

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