Research Initiatives

In Partnership with the Indiana University Cancer Center

- **Cancer Prevention and Control**
  The cancer prevention initiative focuses on diet and gene interactions, early detection technologies, and behavior modification to approach cancer prevention strategies in a unique, interdisciplinary manner.

- **Cancer Biomarkers**
  Cancer biomarkers efforts focus on the development of new high throughput technologies and engineered devices that can rapidly analyze exceedingly small amounts of biofluids. Partners: Bindley Bioscience Center.

- **Cancer Nanotechnology & Diagnostic Devices**
  Applying Purdue engineering strengths to the cancer problem, this program seeks nanotechnology solutions for early detection and effective tumor destruction. Partners: Birck Nanotechnology Center and Bindley Bioscience Center.

- **Cancer Care Engineering**
  Cancer Care Engineering is the application of the principles of systems engineering to the broad spectrum of cancer prevention, treatment, and care delivery. The core of the project is based on visualizing cancer as a system using unique data visualization and statistical models to predict patient response and optimized care delivery. Partners: eEnterprise Center, Cyber Center, Regenstrief Center for Healthcare Engineering.

In Partnership with Local and Regional Clinicians

- **Cancer Research Clinical Partnership**
  The Cancer Research Clinical Partnership program was established to foster collaborations between local medical oncologists and other physicians with members of the OSC. The goal is to provide clinical input early in cancer research to positively impact translation to the clinical setting.

Learning and Engagement Initiatives

In Partnership with the College of Liberal Arts

- **Cancer Culture and Community**
  The Cancer Culture and Community program features an annual Colloquium focused on the human response to cancer as expressed through literature. The Colloquium features nationally renowned writers and provides a venue for interactions with Purdue students and faculty as well as members of the Greater Lafayette Community.