“Precision oncology: drug profiling of patient derived cancer cell spheroid model”

- Discuss advantages of 3D (three-dimentional) culture systems in cancer research
- Discuss the role of tumor spheroids as in vitro model to determine the drug sensitivity

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Dr. Deimante Tamkus has established multidisciplinary collaborations with clinicians and basic scientists with the purpose to enhance the understanding of the biology of cancer and improve the quality of care of patients with breast cancer. In 2010, Dr. Tamkus received the MSU Cancer Research Career Development Award. Her research has been funded by the Great Lakes Cancer Research Consortium and by the Susan G. Komen Foundation Michigan.

Dr. Tamkus is a member of the Breast Clinical Trials Working Group in Big Ten Cancer Research Consortium. She actively participates in national clinical trials bringing new targeted therapies to the patients with breast cancer. Dr. Tamkus continues working on studies to reduce toxicity and improve quality of life in patients receiving treatment for hematological and oncological malignancies. In collaboration with College of Nursing at the Michigan State University, Dr. Tamkus serves as a co-investigator in the NIH sponsored studies that focus on interventions to enhance patients’ quality of life and reduce symptoms burden during anticancer therapy.