

DOE Award Number: DE-SC0002014

Name of Recipient: The Research Institute at Nationwide Children's Hospital

Project Title: National Biorepository for Children's and Women's Cancer

Project Title/Principal Investigator: Nilsa Ramirez

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The project titled "National Biorepository for Children's and Women's Cancer". The funding received by the Biopathology Center (BPC) at the Research Institute at Nationwide Children's Hospital was utilized to procure equipment and add resources to establish a national digital archive of tissues of children and women's cancers to advance treatment and research. As planned in the proposal, the project allowed the BPC to procure two high-speed imaging robots and hire imaging technicians to scan a large collection of Children's and Women's cancer tissues.

The BPC team focused on completed clinical trials, with some dating back nearly 30 years, conducted by the Children's Oncology Group (and its precursor groups) as well as the Gynecologic Oncology Group. A total of 139 clinical trials were imaged as part of the archive project allowing the team to generate 29, 488 images that are currently stored at the Ohio Supercomputer Center located in Columbus Ohio. The images are now integrated with the Virtual Imaging for Pathology, Education and Research (VIPER) application. The VIPER application allows the BPC to make the digital archive available via the Internet to approved researchers remotely eliminating the use of glass slides for this collection. The elimination of glass slides reduces costs associated with shipping, reduces breakage of glass slides and allows for the review of these cases quickly by experts on a standard desktop computer.