

Workshop V: Analysis of Drug-Induced DNA Damage

Instructors: Zbigniew Darzynkiewicz, MD, PhD, Director, Brander Cancer Research Institute, Valhalla, NY

Shazib Pervaiz, MBBS, PhD, Professor, Yong Loo Lin School of Medicine, National University of Singapore and Duke-NUS Graduate Medical School, Singapore

Format:

1. Practical aspects of DNA damage assessment – Professor Darzynkiewicz.
2. An overview of the DNA damage and repair pathways triggered upon exposure to genotoxic drugs and use of the laser scanning cytometry platform for assessment of drug-induced DNA damage at the National University of Singapore – Professor Pervaiz.
3. Demonstration of the design, execution, and LSC analysis of cell cycle and phosphorylation of gamma-H2AX – Dr. Judy Newmark, CompuCyte Corporation