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CENTER FOR BIOENGINEERING



Biomedical Computer Vision Laboratory (BCVL) is currently pursuing scientific projects in the areas of basic and translational research. These include several interdisciplinary collaborations encompassing computational science, applications of light microscopy, as well as cell and cancer biology. Our expertise is in the design and development of computer vision algorithms for quantification of fluorescence microscopy images, and in applying engineering principles and mathematical modeling to address human health and disease problems.

Selected publications:

- Sung MS, Giyrezi A, Lee GY, Matov A, Galletti G, Loftus M, Syed Y, Lannin T, Hristov A, Mason C, Tagawa ST, Kirby B, Nanus DM, Giannakakou P. ***Using circulating tumor cells (CTCs) to interrogate mechanisms of taxane resistance in the prospective TAXYENERGY clinical trial in prostate cancer. Cancer Research, 73 (8), American Association for Cancer Research***
- Sung MS, Ggyrezi A, Syed Y, Lannin T, Hristov A, Matov A, Loftus M, Galletti G, Lee GY, Mason C, Kirby B, Nanus DM, Tagawa ST, Giannakakou P. ***Molecular determinants of taxane activity using circulating tumor cells (CTCs) from castrate-resistant prostate cancer patients. Physical Sciences-Oncology Center on the Microenvironment & Metastasis, New York Academy of Medicine, Understanding Cancer: Genomes to Devices Symposium***

