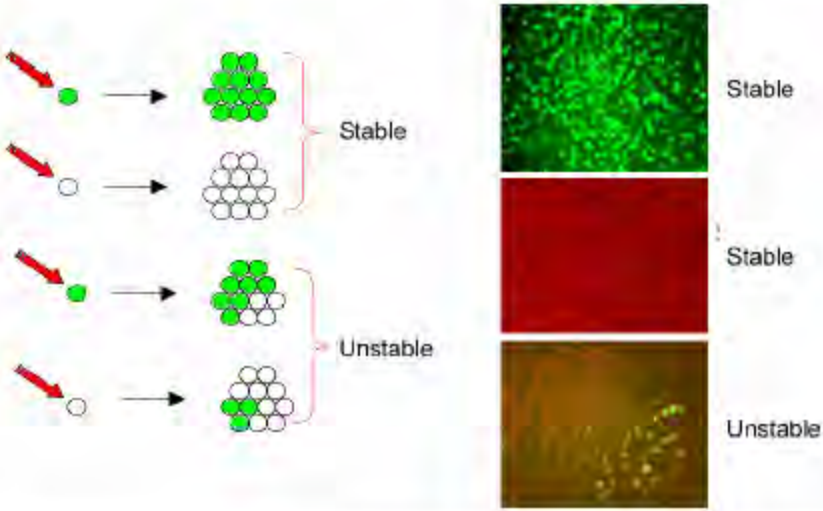

Figure 2. Protocol for evaluating induced genomic instability using the GFP reporter assay in RKO36 cells. RKO36 cells contain a mixture of GFP+ (green) and GFP- (clear) cells. They will be plated at low density for colony formation and instability evaluated using our automated fluorescence microscope. A colony will be considered stable if all cells are green or all cells are clear, and unstable if there is a mixture of GFP+ and GFP- cells in the colony. Our usual criteria for instability is >5 cells of one cell type (e.g., GFP+) cells in a colony containing predominantly GFP- cells.