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1. The incorporation of cell lines expressing fluorescent proteins (FP) allows for simplified, rapid detection of the cytotoxic effect of co-cultured cell models via the widefield microscopy capability of the Cytation 5
2. Live cell assays can also be multiplexed with FP expressing cells to further understand the phenotypic effects of test molecules, using Cytation 5's multiple, individual imaging channels
3. Cellular analysis to determine live, apoptotic, and necrotic cell numbers following prescribed incubation periods is carried out using Gen5 Data Analysis Software
4. Assessment of modifications to the methylation state of target histone lysine residues are also possible using antibody-based detection, and the sub-population capabilities of Gen5
5. The combination of cell model, sensitive live or fixed cell detection, and image-based cellular analysis provides an ideal approach to better understand the phenotypic effects and epigenetic mechanisms of action of potential new anti-cancer therapies