

Comparison of Total Fluorescence in Cell Clusters versus Fluorescence of the Individual Cells in the Cluster

In the analysis of cell clusters composed of a mixture of fluorescent and non-fluorescent cells it has been questioned how the amount of fluorescent cells in the clusters can be discriminated. The level of fluorescence in a cell cluster is a result of the number of positive cells in the cluster and the intensity of light emitted from the fluorescent marker on/in those cells. In this QTN we compare the analysis of the fluorescence level of an entire cell cluster with the fluorescence measurement of the individual cells of that particular cell cluster. The BioSorter[®] was used to measure and dispense an individual cell cluster into the well of a multiwell plate. Then, cells of the cluster were separated from each other and analysed by conventional single cell flow cytometry. We compare the fluorescence mean intensity of the cluster as measured on the BioSorter with the total number and mean channel of fluorescent cells within the cluster measured on a conventional single cell flow cytometer.