Scientific Report

Alterations in DNA conformation and histone phosphorylation resulting from double-strand breaks induced in HeLa cells – a spectroscopic and immunostaining approach

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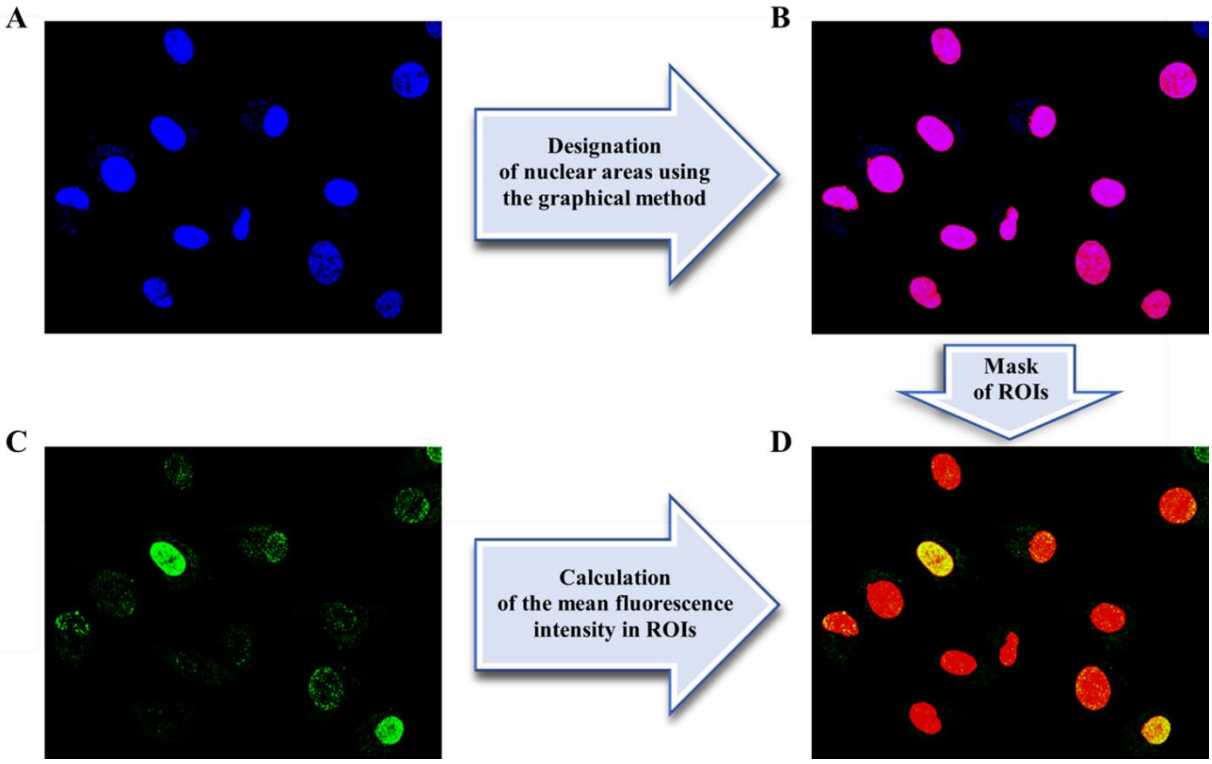

Figure S1 The schematic representation of the analytical method. The chromatin was stained with DAPI dye and is depicted in blue in panel A. Panel B displays the identified nuclear regions, marked in pink. The intensity of phosphorylated histone H2AX staining, shown in green in panel C, was measured within these selected regions. The resultant mask of the regions of interest is highlighted in red in panel D, which shows the overlapping of images from panels B and C

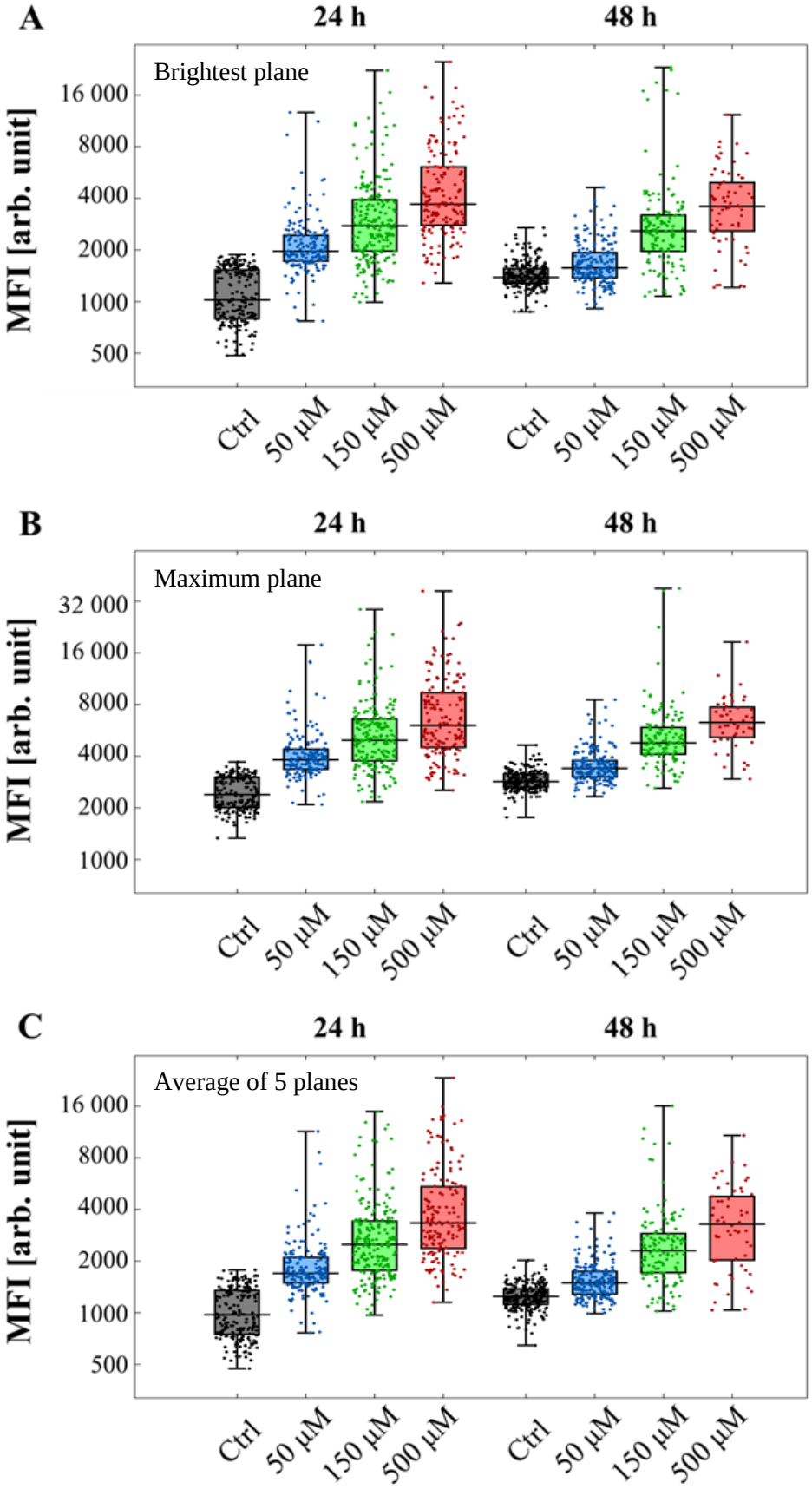

Figure S1 Comparison of three analysis approaches: A MFI for the brightest phosphorylated histone H2AX staining plane; B MFI for the maximum fluorescence plane; C MFI for the average of five consecutive planes.