Supporting Information

Treatment of human lens epithelium with higher levels of nanoceria leads to reactive oxygen species mediated apoptosis

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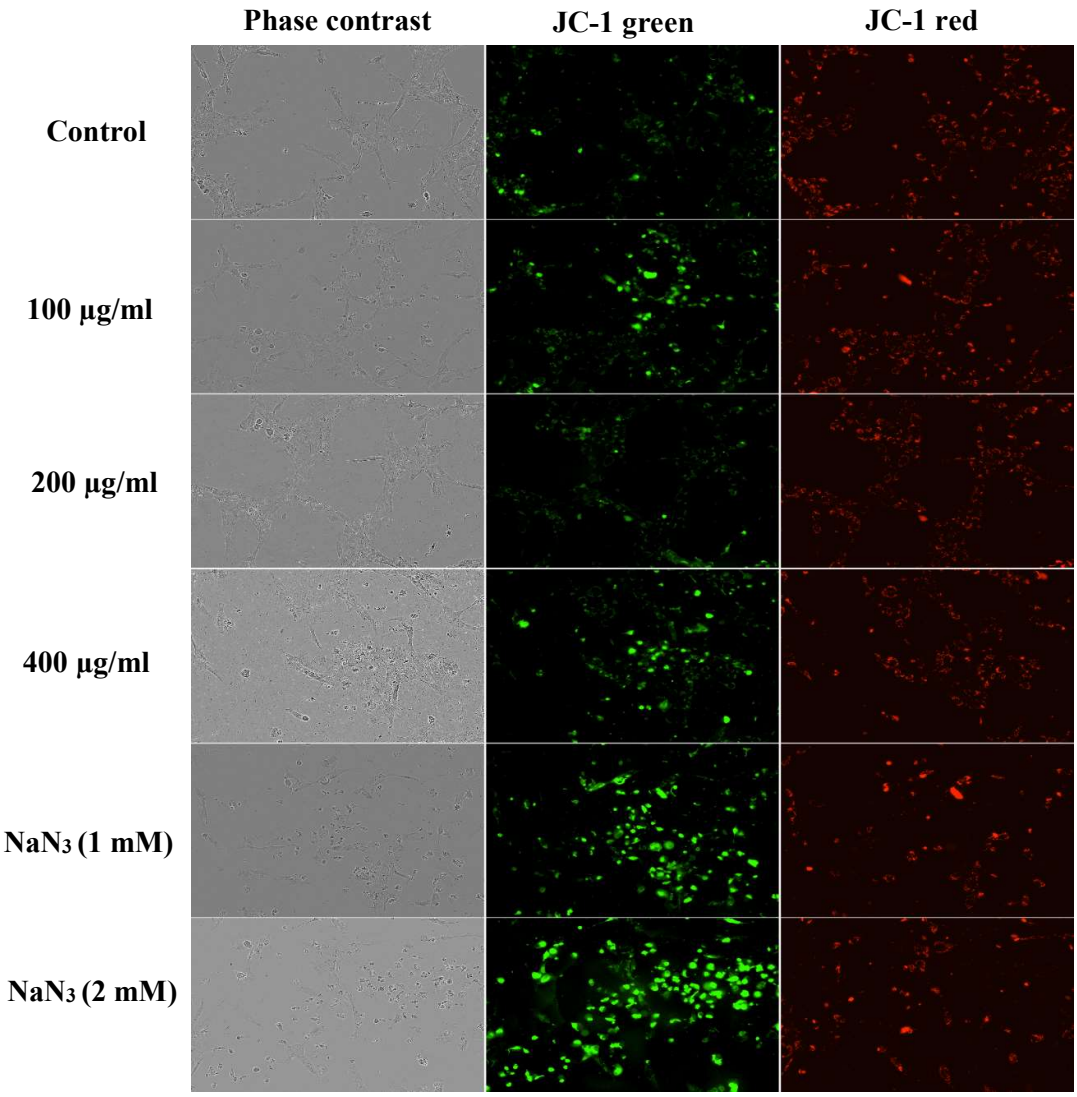

Figure S1 Representative Incucyte images used for the quantification of JC-1 red/green ratio in HLECs after treatment with different EGCNPs concentrations. Three fields of view were imaged in each well (in 96 well plate), at least four wells were used for each treatment condition. The experiment was independently repeated three times.

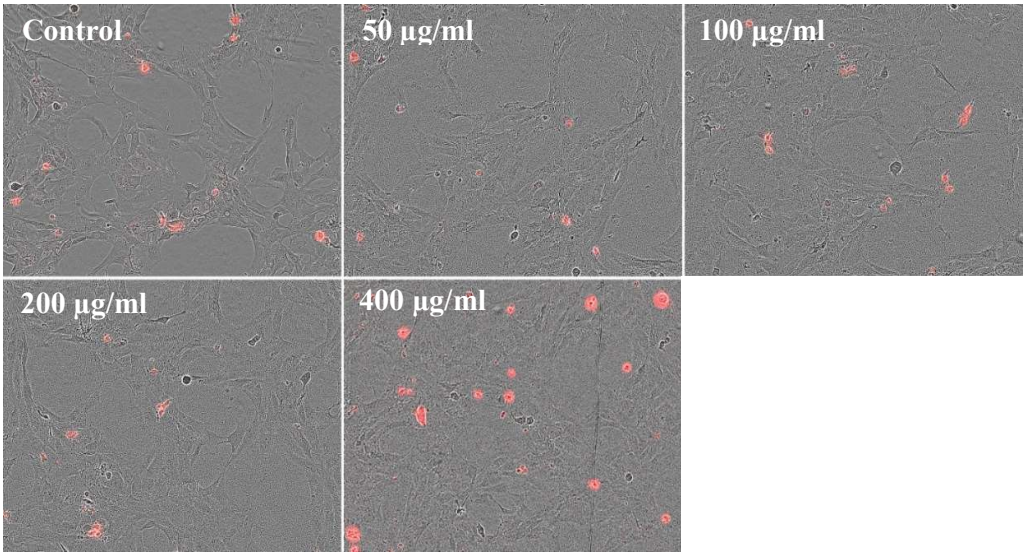

Figure S2 Representative Incucyte images used for measurement of caspase-3,7 activity in HLECs after treatment with different EGCNPs concentrations (0 - 400 µg ml^{-1}) for 24 hr. Three fields of view were imaged in each well (in 96 well plate), n=4

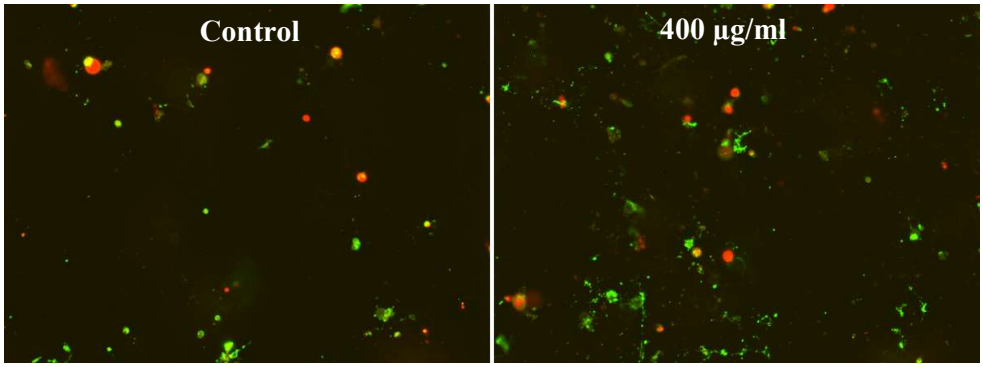

Figure S3 Representative Incucyte images of Annexin V green/Cytotox Red staining in HLECs comparing control and EGCNPs treated cells (24 h). Treated cells showed marked increase in annexin V labelling (apoptotic cells) without increase in number of necrotic cells (Cytotox Red).

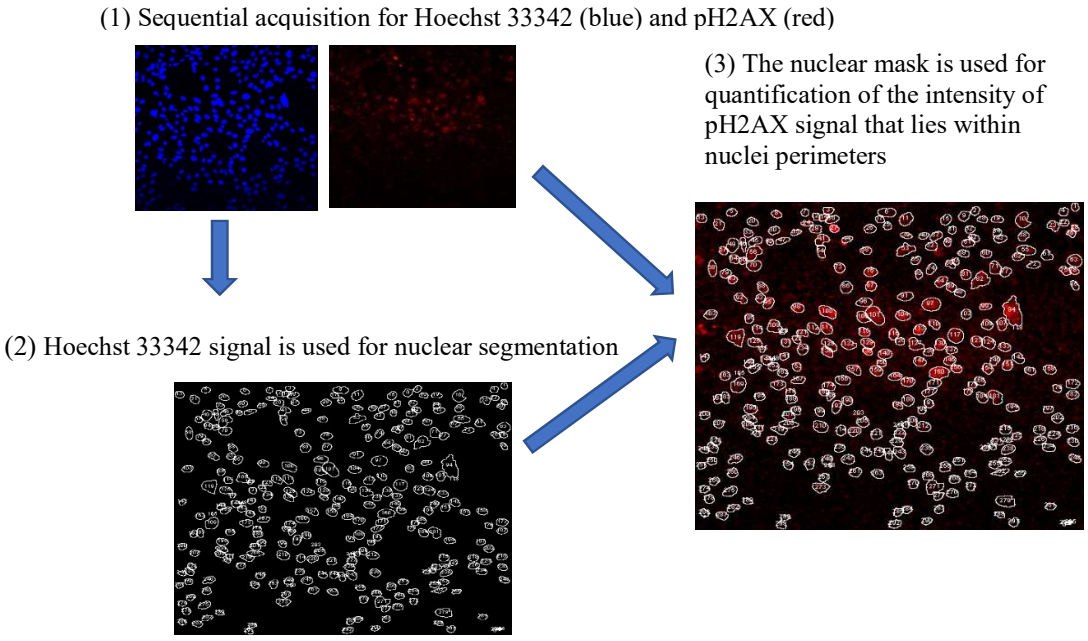

Figure S4 Schematic representation of the steps employed for the quantification of DNA damage (genotoxicity).