Analytical Methods

CORRECTION

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Correction: The sensitive detection of single-cell secreted lactic acid for glycolytic inhibitor screening with a microdroplet biosensor

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Correction for 'The sensitive detection of single-cell secreted lactic acid for glycolytic inhibitor screening with a microdroplet biosensor' by Xuyue Chen *et al.*, *Anal. Methods*, 2020, 12, 3250–3259, DOI: 10.1039/D0AY00633E.

Fig. S5 and S7 in the ESI for this article contained images that were mistakenly duplicated from Fig. 3. The corrected versions of Fig. S5 and S7 are shown below. Fig. 3 is correct in its current form. These changes do not impact on the results or conclusions of the article.

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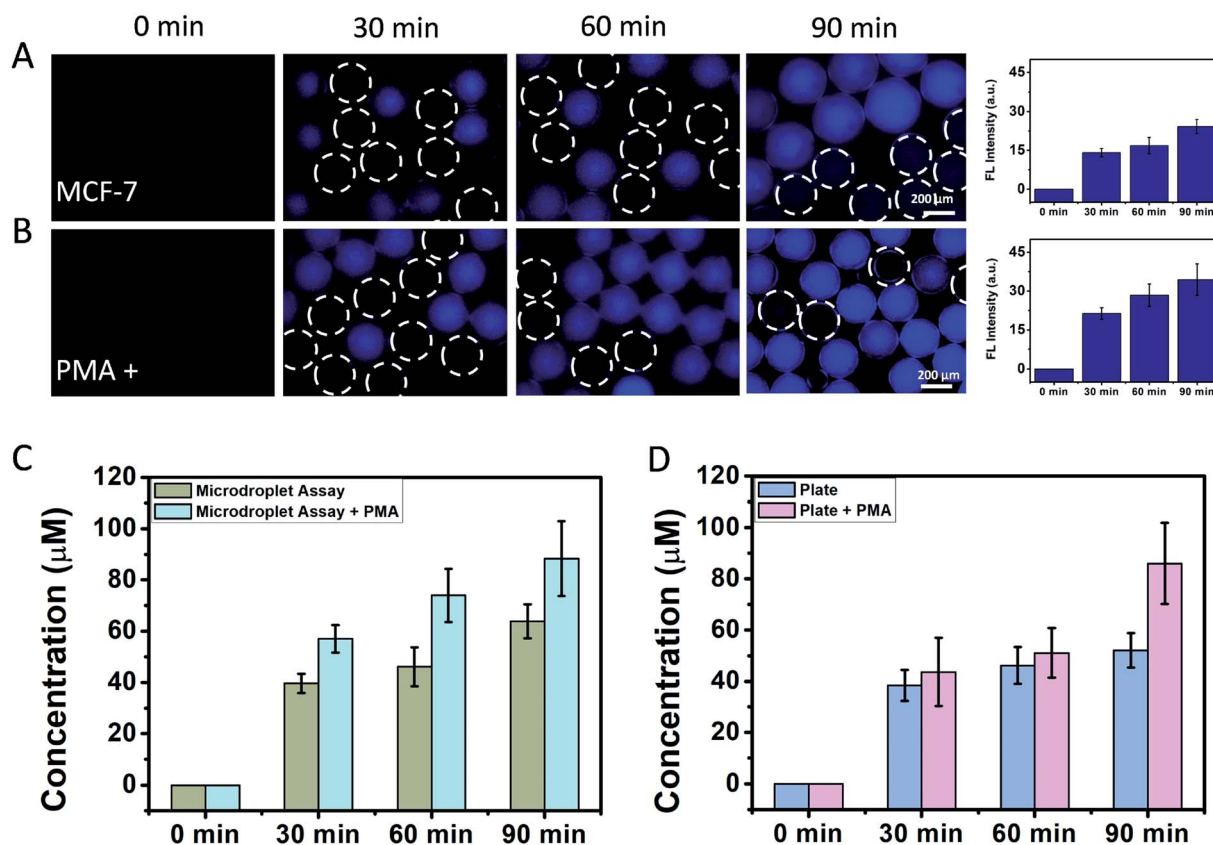
Fig. S5 Fluorescent measurement of droplets encapsulating single MCF-7 cells at the time points of 0, 30, 60 and 90 min. (A and B) Fluorescent images and intensity analysis of MCF-7 cells without or with PMA stimulation. Ex/Em: 360 nm/490 nm. The white circles: the empty microdroplets. Scale bar: 200 μm. Error bar: standard deviation from different cubes ($n = 3$). (C) Lactic acid secretion of a single MCF-7 cell using the droplet assay. Error bar: standard deviation from different cubes ($n = 3$). (D) The averaged lactic acid concentrations secreted by MCF-7 divided by the cell numbers in the microplate (2.4×10^5 cells per well) using the commercial kit. Error bar: standard deviation from different experiments ($n = 3$).
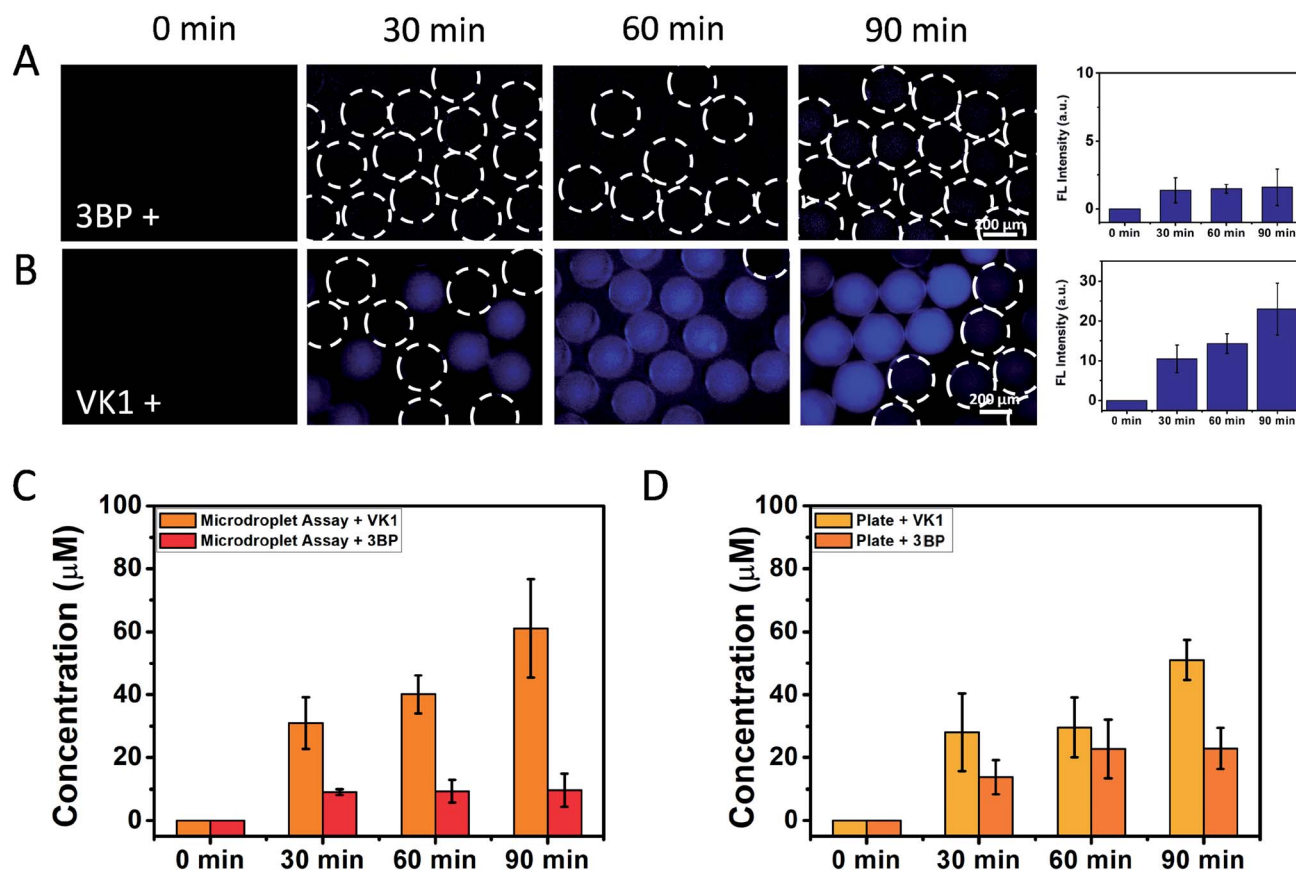
Fig. S7 Fluorescent measurement of droplets encapsulating single MCF-7 cells at the different time points for glycolytic inhibitor screening. (A and B) Fluorescent images and intensity analysis of MCF-7 cells with incubation of 3BP and VK$_1$. Ex/Em: 360 nm/490 nm. The white circles: the microdroplets with fluorescence below the threshold, either cellular LA scretion inhibited or no cell encapsulation. Scale bar: 200 μm. Error bar: standard deviation from different cubes ($n = 3$). (C) Lactic acid secretion of a single MCF-7 cell inhibited by 3BP and VK$_1$ using the droplet assay. Error bar: standard deviation from different cubes ($n = 3$). (D) The averaged lactic acid concentrations secreted by MCF-7 divided by the cell numbers in the microplate (2.4×10^5 cells per well) using the commercial kit, under the inhibition of inhibited by 3BP and VK$_1$. Error bar: standard deviation from different experiments ($n = 3$).

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.