## SUPPORTING INFORMATION

## *In vitro* evaluation of lipopolyplexes for gene transfection: comparing 2D, 3D and microdroplet-enabled cell culture

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**Figure S1.** Negative-stained TEM micrographs of PP PLL (left), Lipos (center) and LPP PLL (right). Scale bars represent 100 nm.



**Figure S2.** Resazurin viability assay of A549 cells incubation with PPs and LPPs for 72 h. Data are Means ± SD, n=3.



**Figure S3.** <sup>1</sup>H NMR (left) and Raman (right) spectra of the peptide CKKKKKC (blue) and the prepared bioreducible polymer bPLL (grey).