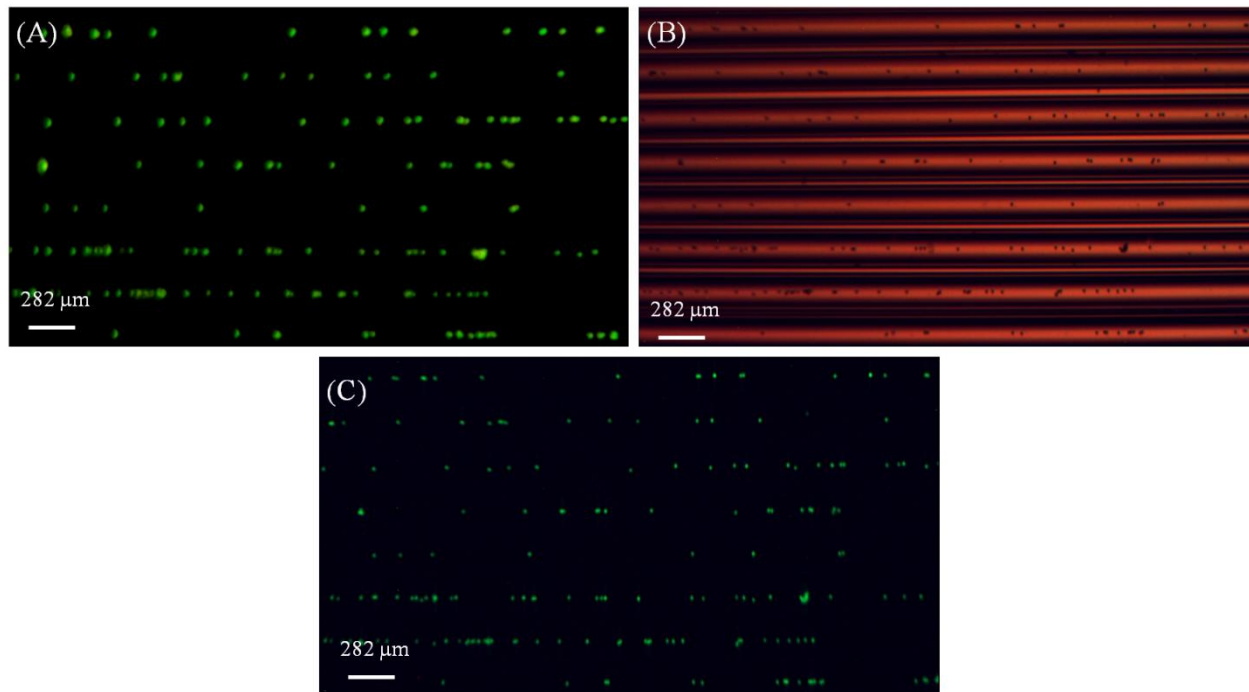


SUPPLEMENTARY FIGURES

SUPPLEMENTARY FIGURE 1



Supplementary Figure 1. Same as Figure 6 of the main text. Fluorescent samples can also be imaged within glass micro-capillaries using our cell-phone based fluorescent microscope as illustrated in (A). In this case, simple capillary action is sufficient to load the specimen into a capillary tube. Each capillary, when loaded with the sample solution, acts as a waveguide for pump photons, such that efficient excitation of the samples could be achieved as illustrated in (A) for 10 μm fluorescent beads that were loaded into several capillary tubes in parallel (each capillary has 100 μm inner diameter and 170 μm outer diameter). Figures (B) and (C) provide the bright-field and fluorescent images of the same capillary-array, respectively, captured using a 4X objective-lens (NA=0.1) presented for the comparison purposes. Note that because the samples were suspended in a solution, their relative orientations might be slightly shifted in microscope comparison images.

SUPPLEMENTARY FIGURE 2



Supplementary Figure 2. (Left) Implementation of the same fluorescent microscopy principle on a different cell-phone model (Nokia X3, 3.2 MPixel) is presented. (Right) A mixture of green and red fluorescent beads that are imaged using the same unit shown on the left image.