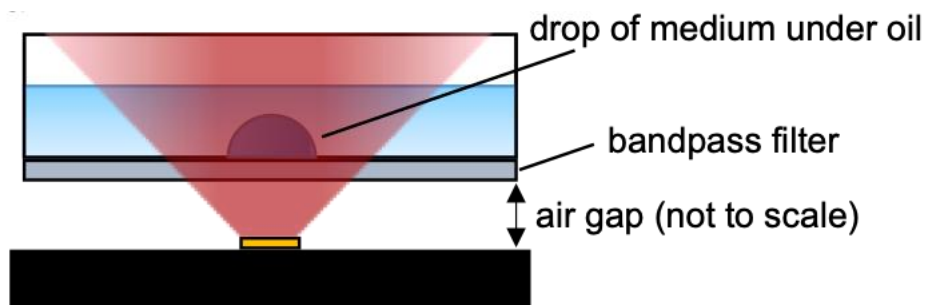


1 **Supplementary Figure 1. Schematic of experimental design for LED light exposure.** Embryos
2 (10) were cultured in a single drop of medium (20 μ l, 4 mm in diameter) centered on a culture dish.
3 Accounting for optical field heterogeneity from the LED source, the size of the drop was controlled to
4 minimize the variation of intensity to $< 10\%$. Each drop was overlaid with paraffin oil to prevent
5 osmolality changes attributed to evaporation. The air gap (~ 10 mm) ensured that the LED uniformly
6 illuminated the drop and thus embryos. Light from each LED passed through a bandpass filter to
7 attenuate light frequencies to ± 10 nm. *Schematic not to scale.

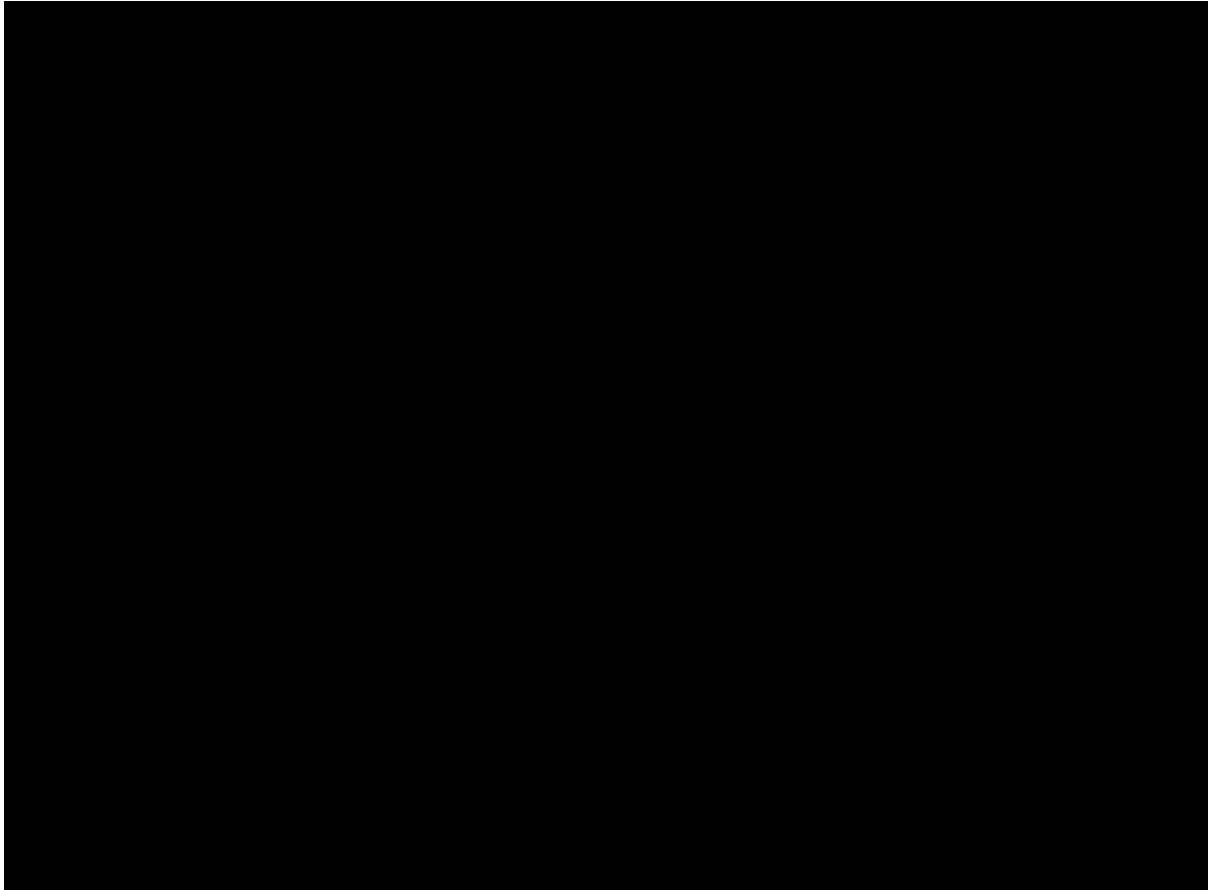
8



9

10

11 **Supplementary Figure 2. No impact on embryo cleavage rates following exposure at the 1-cell**
12 **stage to (a) blue, (b) green, (c) yellow, and (d) red wavelengths.** Data are presented as mean \pm SEM,
13 from 3 independent experimental replicates; $n = 26-29$ embryos per group. Data were analyzed using a
14 Mann-Whitney test.



15

16