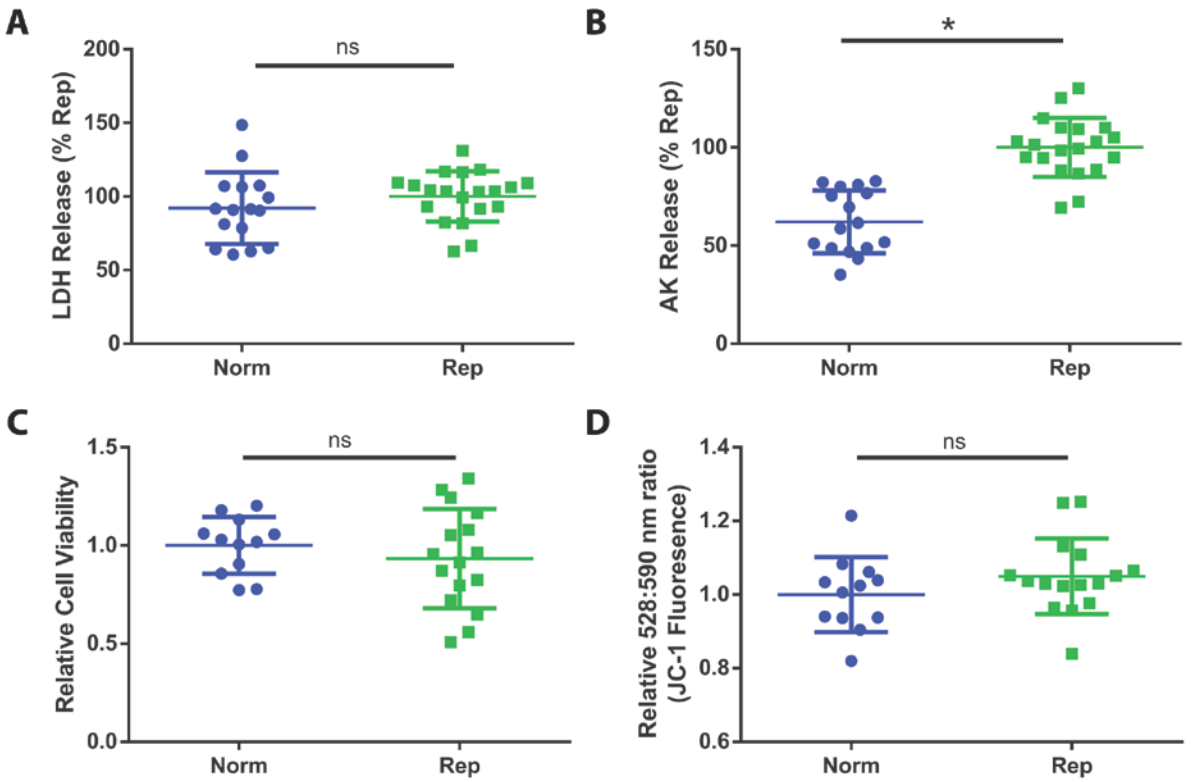

Supplementary FIG. 3. Response of immature cardiac constructs to simulated ischemia-reperfusion. Constructs were tested 3 days after seeding, after development of spontaneous contractions and before the opportunity to mature in the bioreactor. (**A-B**) Lactate dehydrogenase (LDH) and adenylate kinase (AK) release were used to assess cell membrane permeability and death. (**C**) Cell viability was determined by measuring cell activity using RealTime Glo assay. (**D**) Mitochondrial membrane permeability was determined by comparing emission of JC-1 dye at 528 nm and 590 nm, where the increased ratio correlates with higher permeability. Data represents aggregated results from 3 independent experiments and are depicted as individual data points with mean ± SD. Statistical analysis was done using unpaired t-test, * indicates significant difference between groups, $p < 0.05$