

ARTICLE

Carbon nanotube doped pericardial matrix derived electroconductive biohybrid hydrogel for cardiac tissue engineering

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Supporting Information:

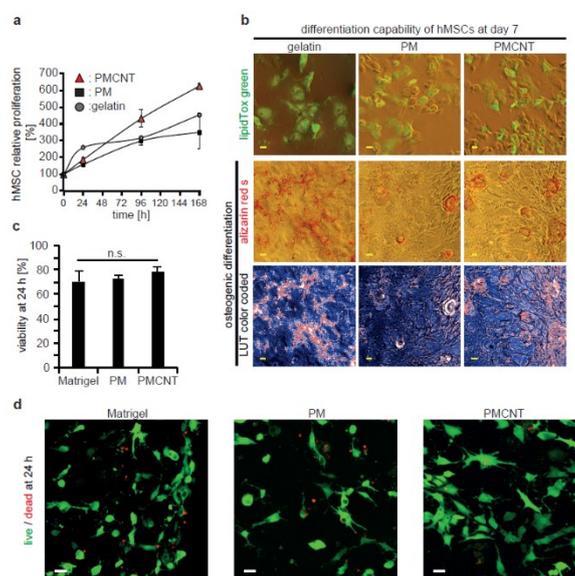


Figure S1. Survival and differentiation capacity of cells on the gels. a) Quantitative analyses of relative proliferation of hMSCs on biohybrid hydrogels (n = 3). b) Examples of microscopy images of hMSCs, which after 7 days differentiated into lipid and bone lineages stained using LipidTox and Alizarin Red S staining. c) Quantitative analysis of live and dead staining (n = 3) based on (d) Examples of projections of

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confocal microscopy images of viability of hiPSC-derived cardiomyocytes cultured on 2D films at 24 h based on live and dead staining by calcein-AM (green, living) and ethidium homodimer-1 (EthD-1, red, dead). Data are mean \pm SD. Scale bars: yellow: 50 μ m, white: 10 μ m.

Supplementary movie captions

Movie S1. hiPSC-derived cardiomyocytes on Matrigel® at day 7

Movie S2. hiPSC-derived cardiomyocytes on PM at day 7

Movie S3. hiPSC-derived cardiomyocytes on PMCNT at day 7

Movie S4. Calcium handling of PM-tissues at day 7

Movie S5. Calcium handling of PMCNT-tissues at day 7

Movie S6. PM-tissue at day 27

Movie S7. PMCNT-tissue at day 27