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

Kaveh Roshanbina, Zahra Mohammadi,b,c Abdorreza Sheikh-Mahdi Mesgar,c Mohammad Mehdi Dehghan,d Oommen P. Oommen,e Jöns Hilborn *f and Felix B. Engel a,b

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

a. Experimental Renal and Cardiovascular Research, Department of Nephropathology, Institute of Pathology, Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU); 91054 Erlangen, Germany.
b. Muscle Research Center Erlangen (MURCE); 91054 Erlangen, Germany.
c. Biomaterials group, Bioceramics laboratory, Biomedical Engineering Department, Faculty of New Sciences and Technologies, University of Tehran; 1439957131 Tehran, Iran.
d. Department of Surgery and Radiology, Faculty of Veterinary Medicine, University of Tehran; Tehran, 1417466191, Iran.
e. Bioengineering and Nanomedicine Lab, Faculty of Biomedical Sciences and Engineering, Tampere University of Technology and BioMediTech Institute; 33720 Tampere, Finland.
f. Department of Chemistry, Angstrom Laboratory, Uppsala University; SE 75121 Uppsala, Sweden.
† Any contact or correspondence should be addressed to Felix B. Engel, Universitätsklinikum Erlangen, Schwabachanlage 12 (TRC), 91054 Erlangen, Germany, felix.engel@uk-erlangen.de, 0049 9131 85 25699.

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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 ± SD. Scale bars: yellow: 50 µm, white: 10 µm.

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