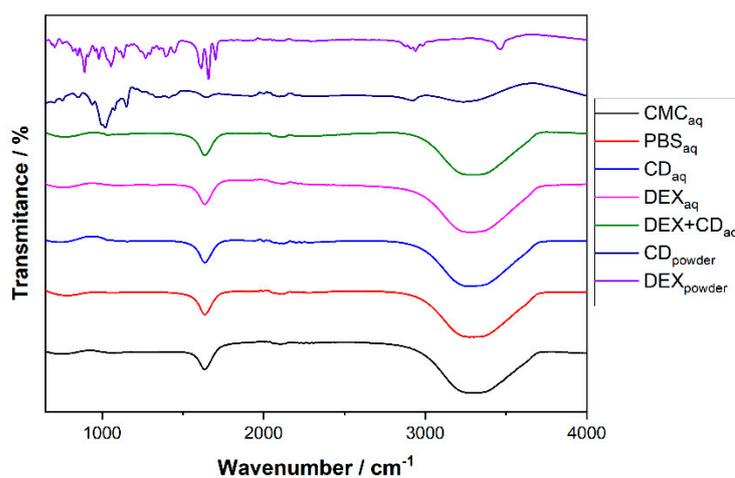
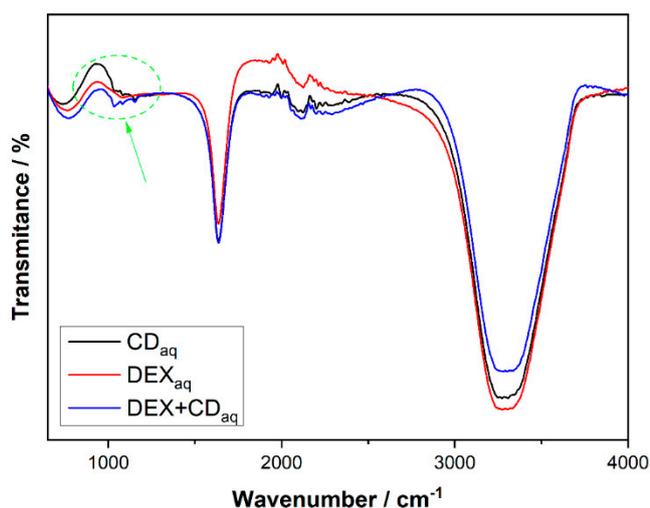


# Supplementary Materials: Dexamethasone-Loaded Bioactive Coatings on Medical Grade Stainless Steel Promote Osteointegration

Jan Rožanc, Marko Žižek, Marko Milojević, Uroš Maver and Matjaž Finšgar



**Figure S1.** ATR-FTIR spectra for comparison of respective components in the multilayer coatings in solution and pure chemicals (powders).

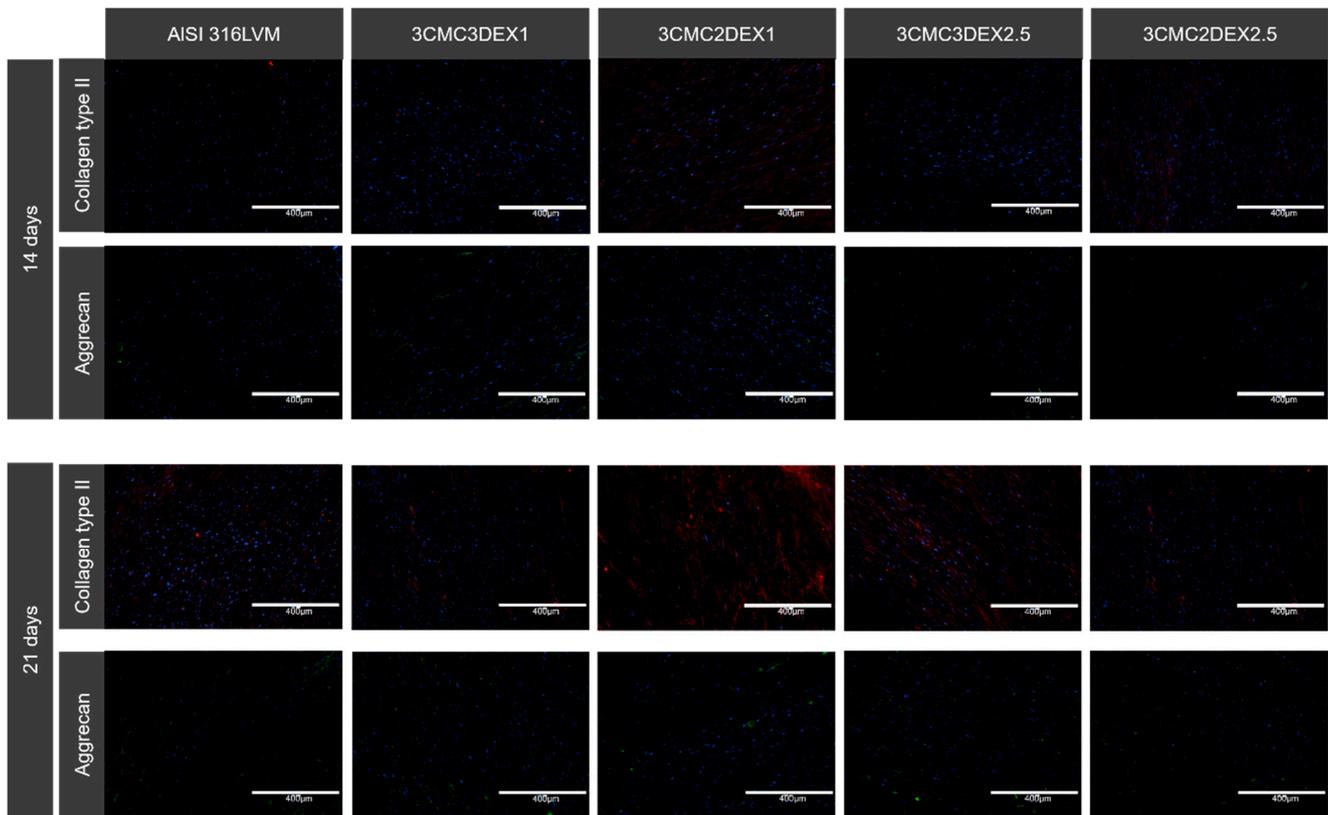


**Figure S2.** Overlay of ATR-FTIR spectra of  $\beta$ -cyclodextrin ( $\beta$ -CD), dexamethasone (DEX), and DEX + CD<sub>aq</sub> mixture, showing combined spectral features around 1000 cm<sup>-1</sup>.

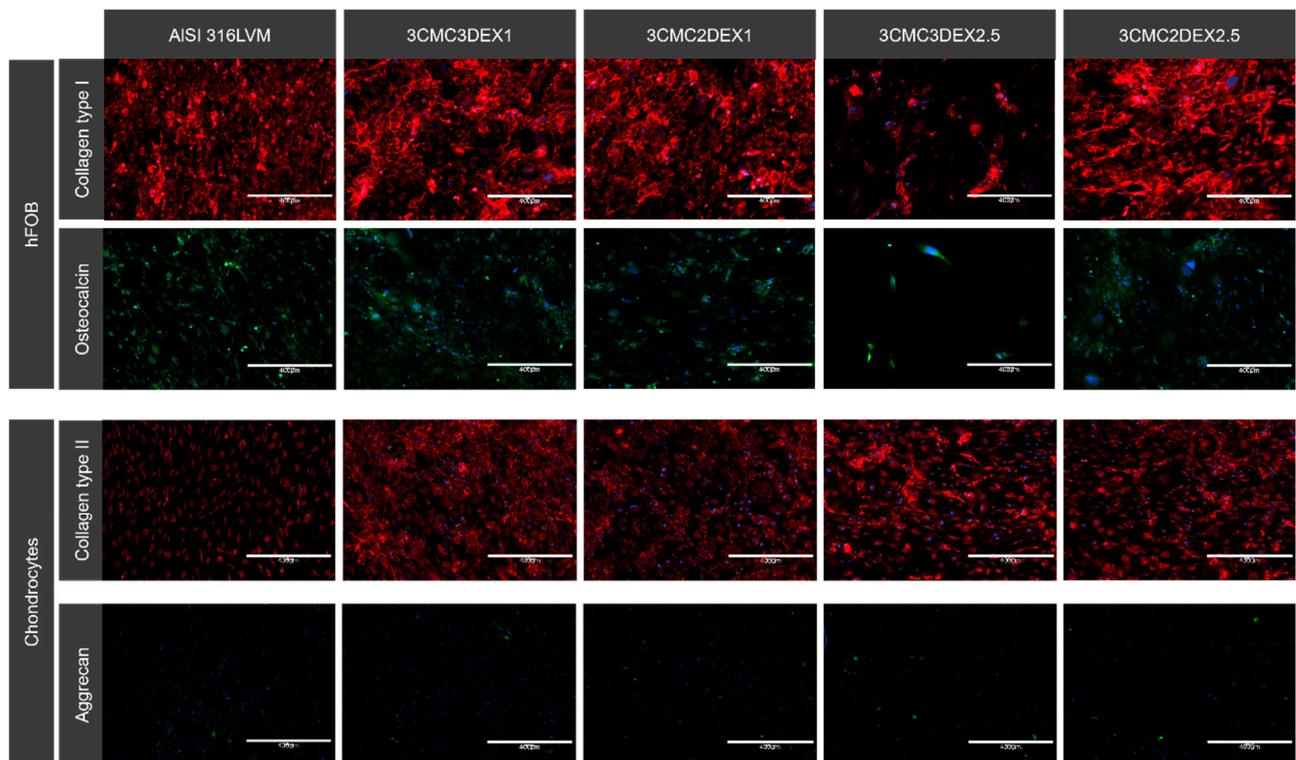
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**Figure S3.** Immunocytochemical analysis of chondro-specific markers (Collagen type II and aggrecan) in hMSCs after 14 and 21 days of incubation on different CMC/DEX coated and non-coated substrates.



**Figure S4.** Immunocytochemical analysis of hFOB and chondrocytes. The expression of chondrocyte and osteocyte-specific markers was evaluated after 7 days of incubation on different CMC/DEX coated and non-coated substrates.