

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

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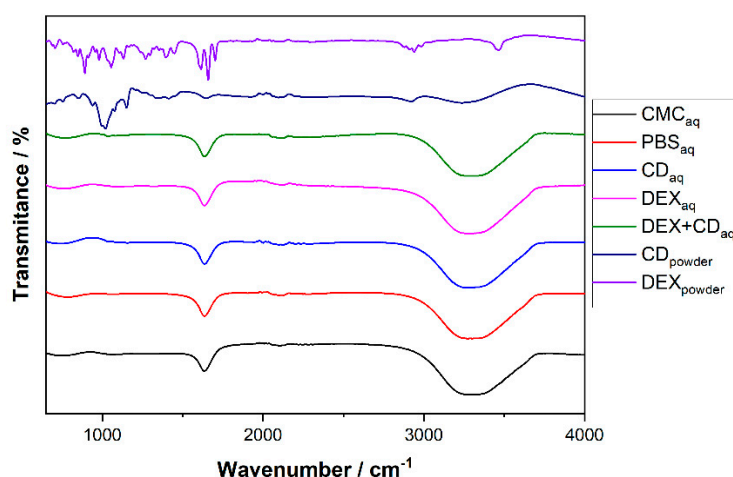


Figure S1. ATR-FTIR spectra for comparison of respective components in the multilayer coatings in solution and pure chemicals (powders).

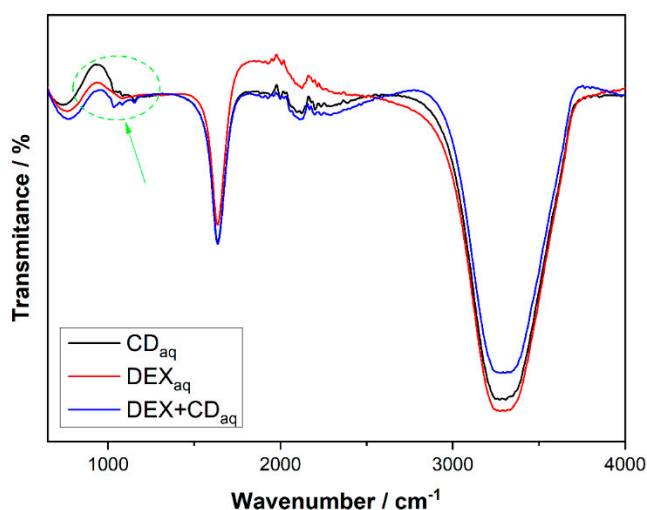


Figure S2. Overlay of ATR-FTIR spectra of β -cyclodextrin (β -CD), dexamethasone (DEX), and DEX + CD_{aq} mixture, showing combined spectral features around 1000 cm⁻¹.

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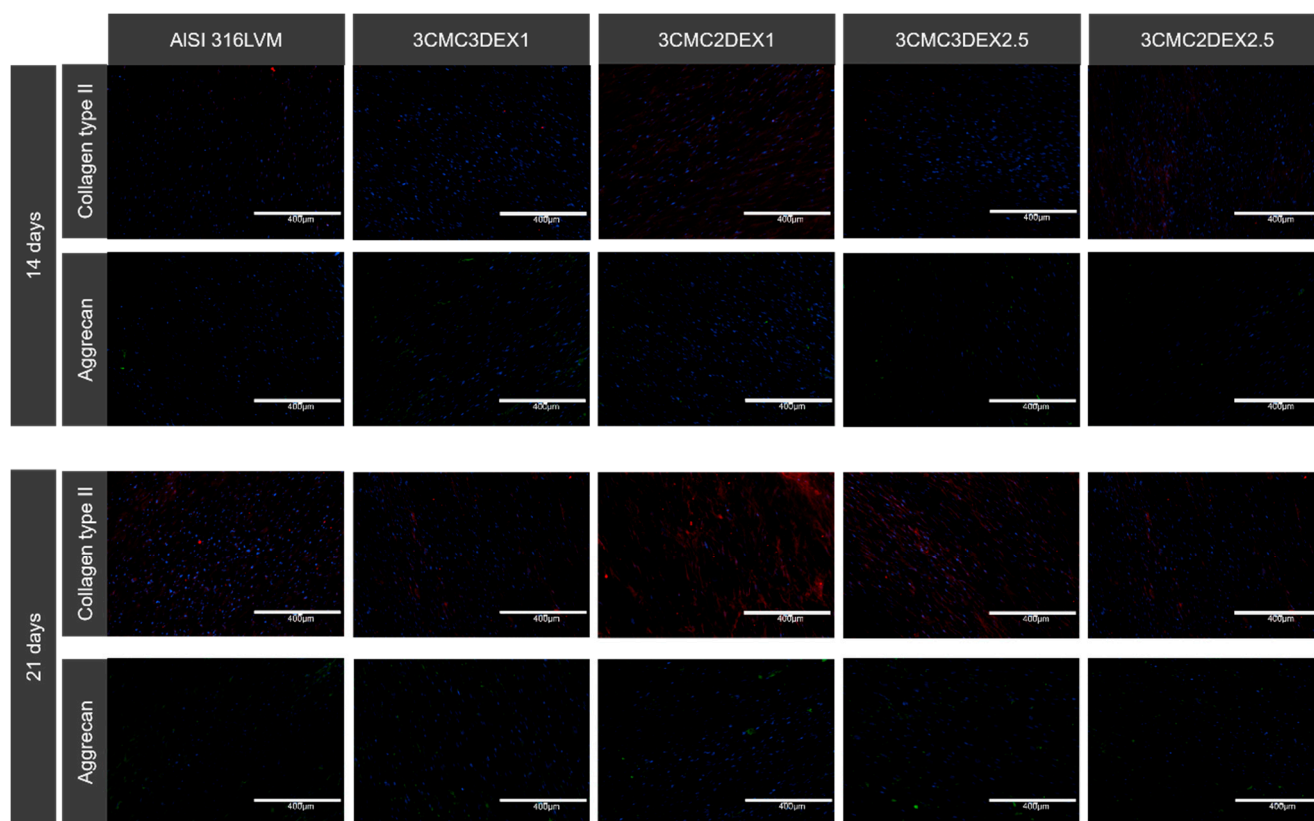


Figure S3. Immunocytochemical analysis of chondro-specific markers (Collagen type II and aggrecan) in hMSCs after 14 and 21 days of incubation on different CMC/DEX coated and non-coated substrates.

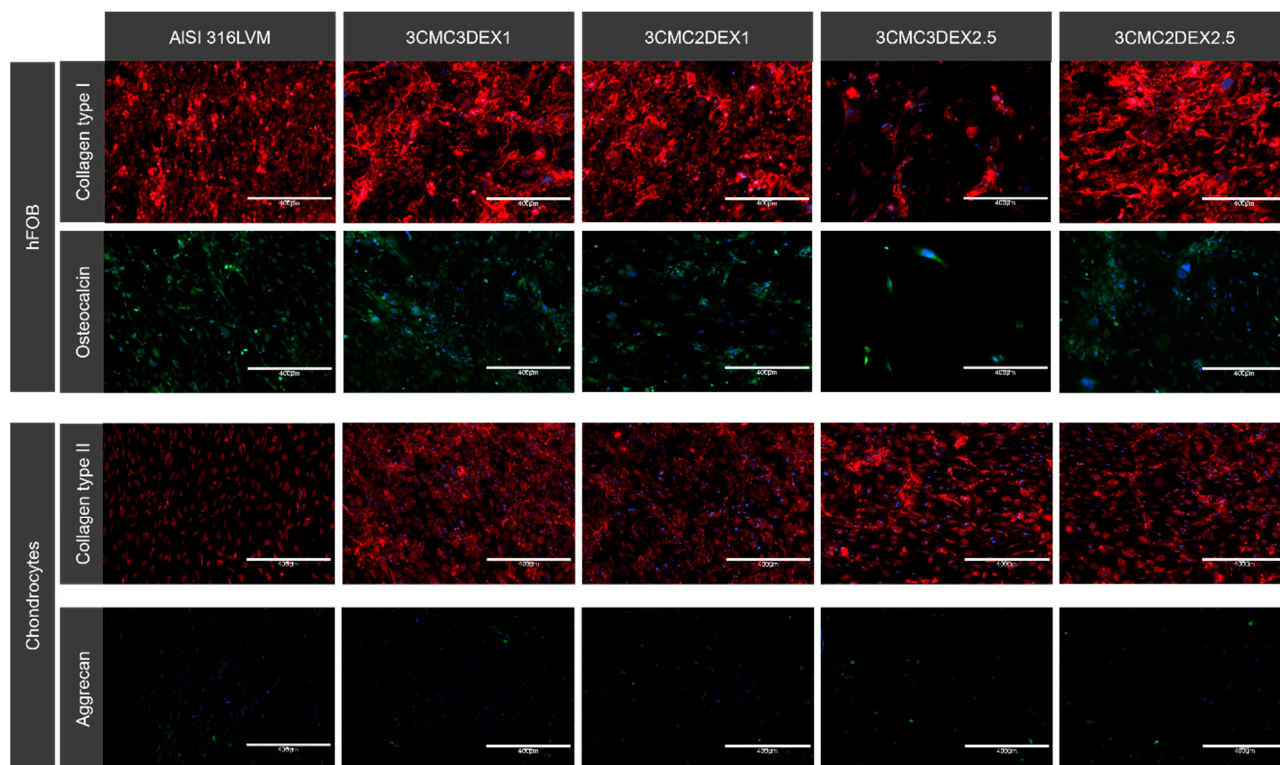


Figure S4. Immunocytochemical analysis of hFOB and chondrocytes. The expression of chondrocyte and osteocyte-specific markers was evaluated after 7 days of incubation on different CMC/DEX coated and non-coated substrates.