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Microproteome of Dentoalveolar Tissues

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Abbreviations used: ECM, extracellular matrix; DC, dental cementum; AB, alveolar bone; DE, dentin; LCM, laser capture microdissection; LC-MS/MS, liquid chromatography coupled to tandem mass spectrometry; COL1A1, collagen alpha-1(I) chain; COL12A1, collagen alpha-1(XII) chain; VIM, vimentin; BGN, biglycan; ASPN, asporin; LUM, lumican; FMOD, fibromodulin; PCA, principal component analysis; MMP-20, matrix metalloproteinase 20; NT5E, 5' nucleotidase; SPP-24 and SPP-2, secreted phosphoprotein 24; FFPE, formalin-fixed paraffin embedded; PBS, phosphate-buffered saline; PEN, polyethylene naphthalate; IR, infrared; UV, ultraviolet; GO, gene ontology; PANTHER, protein analysis through evolutionary relationships; IHC, immunohistochemistry; ABC, avidin-biotinylated peroxidase enzyme complex; AEC, 3-amino-9-ethylcarbazole; DCN, decorin; POSTN, periostin; SPARC, secreted protein acidic and rich in cysteine; PC, principal component; ALPL, tissue-nonspecific alkaline phosphatase; AHSG, alpha-2-HS-glycoprotein; MGP, matrix Gla protein; IBSP, bone sialoprotein 2; DSPP, dentin sialophosphoprotein; MYH1, myosin-1; AT2A1, sarcoplasmic/endoplasmic reticulum calcium ATPase 1; ACTB, cytoplasmic actin 1; HADHA, mitochondrial trifunctional enzyme subunit alpha; HADHB, mitochondrial trifunctional enzyme subunit beta; UQCRC1, cytochrome b-c1 complex subunits 1; UQCRC2, cytochrome b-c1 complex subunits 2; EIF4A1, EIF4A1; CASQ1, calsequestrin-1; ATP2A1, ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 1; BMP2, bone morphogenetic protein 2; TGF- β , transforming growth factor beta; ACO2, aconitate hydratase; PDL, periodontal ligament; SLRP, small leucine-rich proteoglycan; PHEX, metalloendopeptidase homolog PEX; FBN2, fibrillin-2; XLH, X-linked hypophosphatemia; ACDC, ectopic calcification of vasculature; OPN, osteopontin; SIBLING, small integrin-binding ligand N-linked glycoprotein; DMP1, dentin matrix protein 1; MEPE, matrix extracellular phosphoglycoprotein.

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