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Overview of noncoding RNAs involved in the osteogenic differentiation of periodontal ligament stem cells

Qiu W *et al.* ncRNAs in osteogenesis of PDLSCs

Wei Qiu, Bu-Ling Wu, Fu-Chun Fang

#### Abstract

Periodontal diseases are infectious diseases that are characterized by progressive damage to dental support tissue. The major goal of periodontal therapy is to regenerate the periodontium destroyed by periodontal diseases. Human periodontal ligament (PDL) tissue possesses periodontal regenerative properties, and periodontal ligament stem cells (PDLSCs) with the capacity for

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Its expression is upregulated during osteogenic differentiation of periodontal membrane stem cells  
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In this manuscript, we summarized the long **noncoding RNAs** which play an important role in the **osteogenic differentiation** (H19, MALAT1, MODR, etc.), cartilage **differentiation** (ZBED3-AS1, DANCR, and HIT) from MSCs, and osteoclast **differentiation** (DANCR) from hematopoietic **stem cells** and mononuclear progenitor **cells**. The mechanism has been ...

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An **Overview** of Long **Noncoding RNAs** Involved in Bone Regeneration from Mesenchymal **Stem Cells**. ... to screen the differentially expressed genes of human **periodontal ligament stem cells** (hPDLSCs), which were, respectively, cultured in growth medium and **osteogenic** induction medium for 14 days, and screened out 3557 differentially expressed mRNAs ...

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