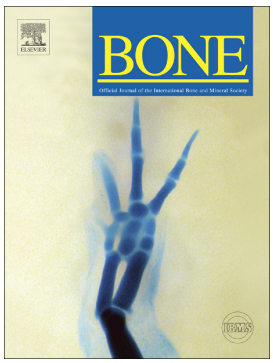

CD105 is regulated by hsa-miR-1287 and its expression is inversely correlated with osteopotential in SHED

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Introduction

Transplantation of autologous bone grafts is considered the golden standard procedure for osteogenic bone replacement (Amini, Laurencin et al.; Healy and Guldberg 2007). Although this strategy helps to promote regeneration of bony structures lost or damaged due to trauma, diseases, or congenital malformations, difficulties such as morbidity and lack of tissue supply have placed tissue engineering based on adult mesenchymal stem cells (MSCs) as a promising approach for bone reconstruction and regeneration (Holzwarth and Ma; Bose, Roy et al. 2012).

~~Thorough~~Translation of MSC-based experimental therapies to everyday