

Center for Skeletal Research
MGH Endocrine Unit

Bone Cells Core

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Bone marrow derived stromal cells (BMSC)

Bone marrow cells will be isolated following the protocol of Takahashi et al. (7). The procedure typically yields 4×10^7 to 6×10^7 nucleated cells (including hematopoietic cells) per mouse. These cells can be used to study osteoprogenitors and the effects of therapeutic on osteoblasts differentiation. Typically BMSCs can be differentiated into osteoblasts or adipocyte to study lineage commitment. Primary calvarial osteoblasts can be used to investigate the mechanisms of bone formation, to probe the cellular and molecular basis of bone disease, and to screen for potential therapeutic agents that affect osteoblasts differentiation and bone formation