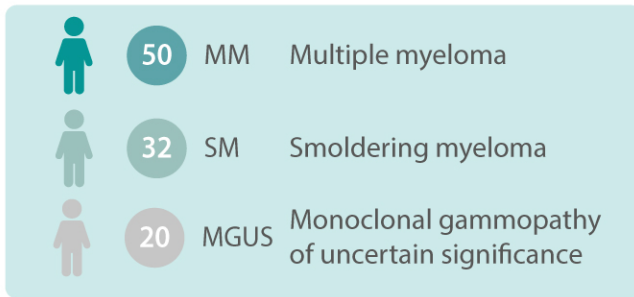
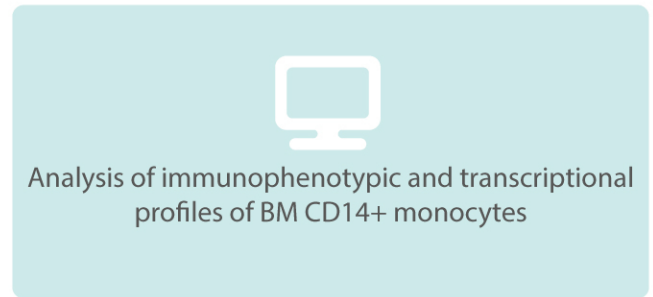


Multiple myeloma patients showed distinct bone marrow monocyte features supporting the role of IL21R over-expression by bone marrow CD14+ cells in enhanced osteoclast formation



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- Higher number of BM CD14+CD16+ cells
 - sorted BM CD14+CD16+ cells are more pro-osteoclastogenic than CD14+CD16- cells in cultures *ex vivo*
- *IL21R* mRNA (involved in osteoclast formation) was significantly upregulated
 - independent from the presence of IL-21



- *IL21R* over-expression in CD14+ cells increased osteoclast formation
- IL-21R signaling inhibition by Janex 1 suppressed osteoclast differentiation from BM CD14+ cells of myeloma patients