

Dr. Suzanne Lentzsch

**International Myeloma Foundation
2012 Senior Research Award**

Project Title:

The Role of C/EBPbeta as a potential novel target for the treatment of Multiple Myeloma

Abstract

Myeloma (MM) is an incurable hematologic malignancy characterized by the development of devastating bone disease. We identified CCAAT/enhancer binding protein β (C/EBP β) as a critical transcription factor, regulating growth and proliferation of MM cells. In the current proposal we hypothesize that the transcription factor C/EBP β plays a critical role in MM cell growth/survival and interacts with the bone marrow microenvironment, in turn resulting in further induction of MM and MM bone disease. The confirmation of our hypothesis will provide a novel treatment approach of simultaneously targeting the neoplastic plasma cell and the osteoclast, thereby preventing further destruction of the bone.