



“Novel epigenetic approaches for the treatment of aging and disease”

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Abstract

Aging represents the major risk factor for most human diseases and has been identified as one of the major challenges for modern societies. Aging can be defined as the progressive decline in the ability of a cell or an organism to resist damage, stress and disease. Unfortunately, despite decades of research, the process of aging remains poorly understood. Epigenetic dysregulation has recently emerged as potential driver of the aging process. In this line, we have demonstrated that epigenetic reprogramming can lead to the amelioration of age-associated phenotypes. Understanding the role of epigenetic dysregulation as driver of aging and disease will allow the development of novel strategies based on epigenetic reprogramming to prevent or revert the manifestation of aging and disease phenotypes.