

## EMERGING PLAYERS IN AGING PROCESS: A REVIEW

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### ABSTRACT

Aging is an inevitable phenomenon of the life of any organism. The rate of aging is significantly different among different populations and even within a single individual in different anatomical organs. All the molecules and organs appear to suffer from the deleterious effects of aging, including DNA, proteins, cells and organs. Proteins are the most affected molecules in all the biochemical changes of an organism as they are the structural unit of life. In recent years researches have been done on the proteins which are related aging and senescence. Superoxide dismutase, p<sup>53</sup> and sirtuin proteins have been revealed to be involved in the aging and longevity. In this review then, we have discussed about the functioning of these three proteins in the aging process. Study of these proteins will help to pave the way for the new approaches for combating the aging related problems to increase longevity.

**KEYWORDS:** Aging, Proteins, p53, Sirtuins, Superoxide Dismutase