

- 1. Title of research project: “Herbal formulation development for treatment of ageing”**
- 2. Name of PI: Dr. Vaibhav Shinde**
- 3. Funding Agency:UGC**
- 4. Project Reference number/ File number: 47-007/12 (WRO) (2013-15)**
- 5. Executive summary of the project along with output:**

Ageing is universal but complex biological process characterized by impairment of various functions and decreased ability to respond stress. Ageing is characterized by slow, progressive, Structural and functional changes that take place at cellular tissue and organ level. This changes resulting in gradual functional decline, decreased adaptability and ability to face stress and increased probability of age associated diseases including cardio vascular diseases, cancer, diabetic, Alzheimer’s etc.

In the present project, formulation was screen against antiageing activity using antiageing model namely D-galactose induced ageing model, formulation shows decrease in ageing at 200mg/kg and 400 mg/kg, however effect at 400 mg/kg was more pronounced. All the extracts also showed an effective in-vitro antioxidant activity.

The ageing process is now major risk factor for disease and death in the developed countries and population of world is ageing rapidly. Future significant increase in average life expectancy will be achieved only by showing rate of production of ageing changes by ageing process. Thus there is need to develop potent herbal antiageing formulation without interactions. Also formulation is a mixture of four herbs therefore results cannot be conclusive without herb-herb drug interaction data, which we aim to explore in future.