




Fabio Corsi

CurcumAGE

Ferritin- Nanocages for the Anti-Aging Treatment Based on Curcuminoids





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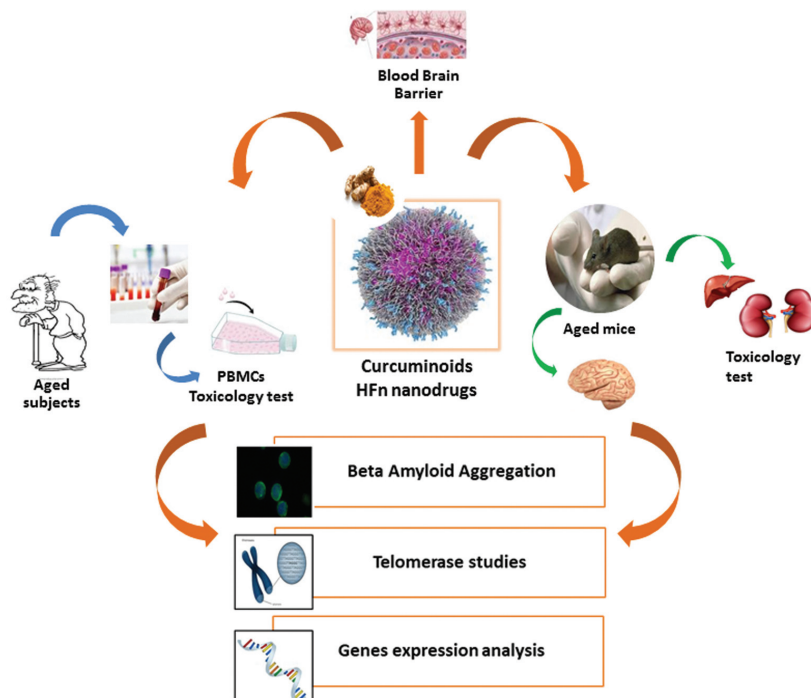
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For the first time in history, the world population is rapidly becoming older. This trend is associated with a wide range of new social and clinical problems that pose significant challenges. Among them, the decline of cognitive function is particularly problematic as, in still

not understood situations, it can degenerate in pathological conditions such as Alzheimer's disease. CurcumAGE project was designed to tackle this issue. In CurcumAGE we intend to make use of Ferritin nanoparticles for the delivery of some natural and synthetic molecules to the brain. These molecules were previously reported by in vitro studies to act as potential antiaging drugs but further development was hampered by the fact that they are not soluble in water. To test the anti-aging properties of our nanodrugs we will make use of a wide range of tools available in the



consortium such as primary cell cultures, transcriptomics analysis, telomeres length analysis and an animal model of aging. We thus hope that CurcumAGE could help in the fight against the global emergency of dementia by using nanotechnology.