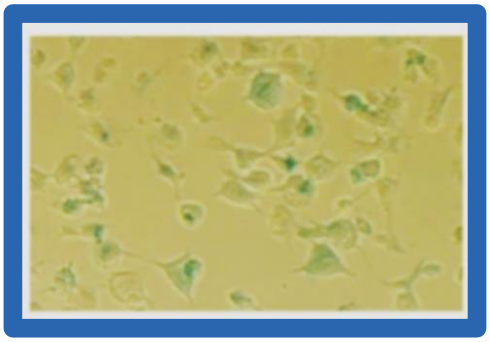
Project title : “Ageing Well in an ageing society”- Age-It

Acronym Age-it

Partners: Full list of partners available at https://ageit.eu/wp/



The IBPM unit is involved in **Spoke 2, WP2** (Improving the understanding of the biology of ageing), **SubTask 2.5** (Defining the role of autophagy regulation and calcium dyshomeostasis in aging-associated diseases: from biology to therapy)

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Description:

The aim of Age-It is to position Italy as a leading country in research on ageing. The thematic areas (Spokes) of Age-It identify ten major challenges that promote active and healthy ageing and the development of an inclusive society for all ages. Spoke 2 investigates the mechanisms and consequences of ageing in different cellular and animal systems. Calcium dyshomeostasis, endoplasmic and mitochondrial stress, and reorganisation of cytoskeleton are all related to ageing. They also affect autophagy, a key process in regulating aged cells. The IBPM unit will study the crosstalk of these pathways in cellular senescence.

Aims:

Our aims are: a) to study the stress processes involved in the induction of autophagy in models of ageing; b) identify new compounds with the potential to counteract cellular senescence; c) generate cellular and animal models of age-related dyshomeostasis and degeneration, which will be used to analyse the effects of the identified molecules.

Expected results:

We expect with this project to contribute to the knowledge of the molecular mechanisms involved in ageing related diseases, identifying new molecular targets for future drug design. Moreover, the cellular and animal aging models that will be developed within this project will be useful not only for screening the new molecular targets that will be identified, but also for future screening of additional compounds.

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