

OSTEOME, ICB/NHRF

OSTEOME is coordinated by the **Institute of Chemical Biology (ICB/NHRF)** and brings together a team with complementary expertise and technical know-how including two research entities (Institute of Chemical Biology - NHRF, Laboratory for Research of the Musculoskeletal System (LRMS) of the School of Medicine, University of Athens), the Panhellenic Association for Skeletal Health "PETALOUDA" and two SMEs (Cloudpharm PC and Life NLB).



OSTEOME aspires to design and develop a novel dietary supplement (containing calcium, vitamin D, prebiotics and polyphenols) for osteoporosis, activating the intestinal microbiome. At the same time, companion biomarkers related to the efficacy and tolerability of the new supplement will be studied. The selection of flavonoids will take place through *in vitro* and *in silico* studies focusing on their interaction with pathways that regulate the activity of osteoclasts and osteoblasts. The efficacy and tolerability of the dietary supplement will be evaluated through a randomized clinical intervention in osteopenic postmenopausal female population having as future goal to recommend guidelines regarding the intake of prebiotic-flavonoid supplements for osteoporosis.

For more information, visit OSTEOME website: www.osteome.eu