

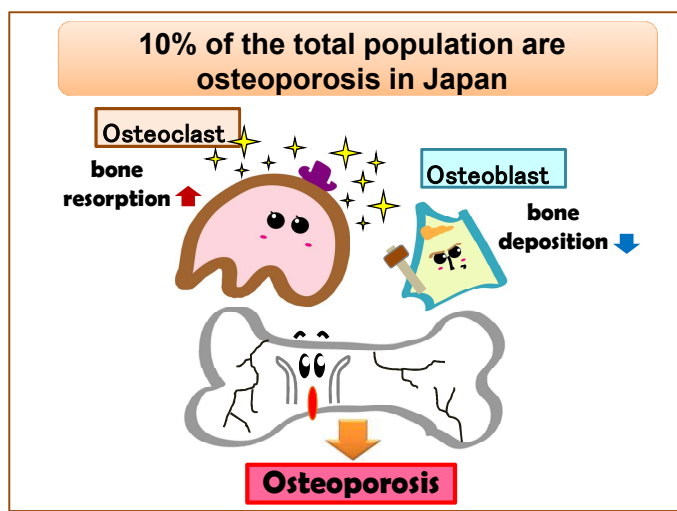


# The Screening of Food-derived Extracts that Contribute to Bone Health for Developing Functional Foods

**[Keywords]** Bone health Osteoporosis QOL/ADL Functional Food

## Our Objective

In Japan, the number of the osteoporosis patients is increasing and currently estimated about 10% of the total population. One of the main cause of being bedridden for the elderly is rollover/bone fracture by degeneration of the bone. The maintenance of bone health is essential for keeping QOL/ADL. It is recommended to do proper exercise and actively take nutrients such as proteins, calcium, and vitamins (especially D and K), which help bone maintenance. However, those nutrients are absorbed less effectively as we age. Therefore, we are looking for novel chemical compounds in various food ingredients that proactively improve bone remodeling. Our goal is development of functional foods that is physiologically effective for bone health maintenance.



## Our Strategy

### ① Food Sample Collection

Food samples are supplied from companies, universities, and institutes.

### ② Evaluation of the effect on osteogenesis

First, we screen the samples *in vitro*, and test the hits *in vivo* by using osteoporosis animal model.

### ③ Determination of the active compounds

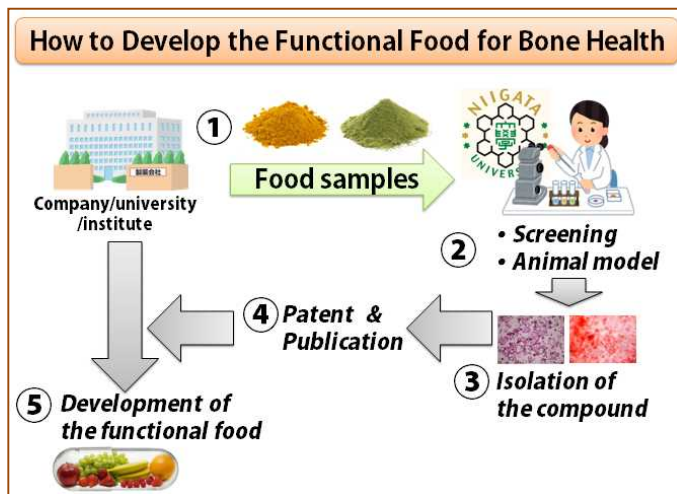
We isolate and determine the active compounds.

### ④ Get patent and publish paper

Conclude the data, obtain patent, and publish paper.

### ⑤ Development of the functional food

We develop the functional food for bone health, which contains enriched active compounds.



**Wanted!!**

**We are looking for companies that is willing to supply food samples and also collaboratively develop original functional food with us, which raises our QOL !**

