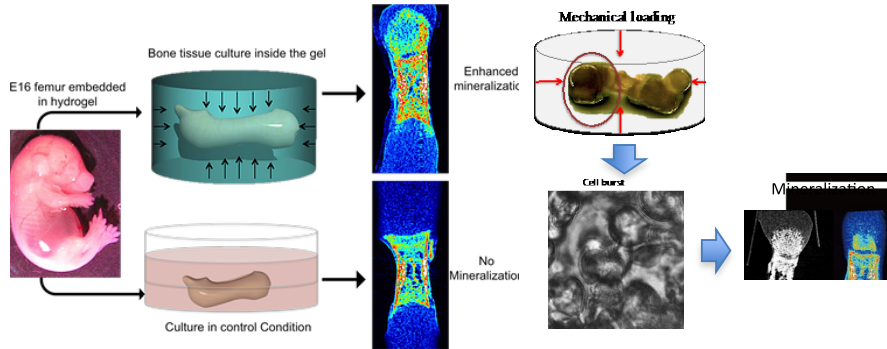


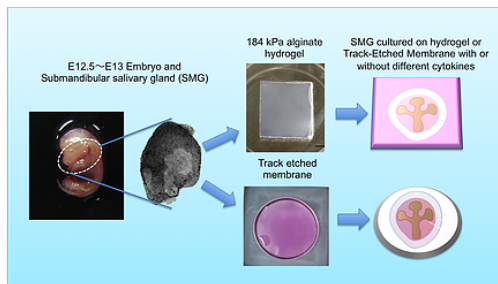
Mechanical Stimulation In Tissue Development

Assistant Professor **Gulsan Ara Sathi**

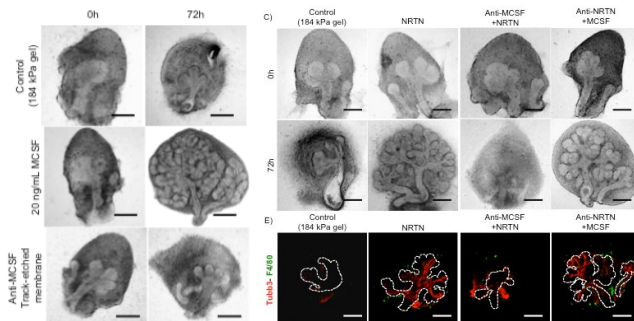
Mechanism behind this matrix mineralization



Soft tissue and cells manipulation in vitro



Encapsulation of MC3T3 cells in hydrogel beads



Content:

In the field of tissue engineering it is important to understand the developmental behavior of the tissue and its surrounding environment.

So, our goal is to understand the tissue specific mechanical environment that need for tissue proliferation and growth. And also we will try to evaluate the particular cells and or molecules that react with this mechanical environment.

In our laboratory, we are mainly work with hydrogel and as sample we use bones, variety of soft tissue (salivary gland, kidney, pancreas and lungs) from embryonic mouse.

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