



# Yasuaki Takagi “Wise-use of collagen and chondroitin obtained from by-products of fish processing”

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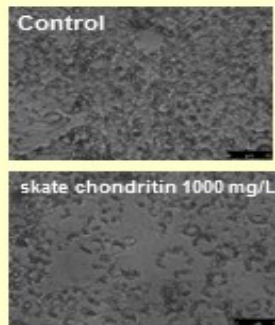
**Cosmetics**  
 “High water-retention & antioxidative activity”

RIPT-negative (human)

(Illustration of water retention and skin care)

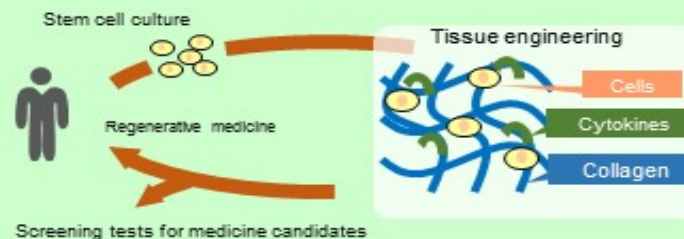
## Functional foods “Antiobesity, antidiabetic effects etc.”

Antiobesity effects of skate chondroitin



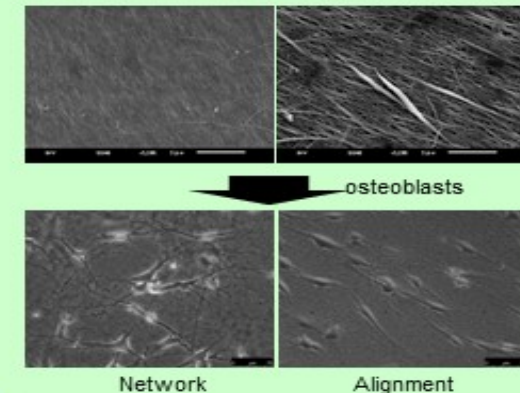
Inhibition of the lipid accumulation in the adipocytes

## Tissue Engineering “Regulation of cell proliferation/differentiation”



New functional scaffolds using collagen fibrils

Two types of new collagen-fibril coating



<The Images for Social Implementation>

Functional foods

Cell scaffold for tissue engineering

Functional cosmetics  
 Wound dressing  
 (Pressure ulcer prevention etc.)