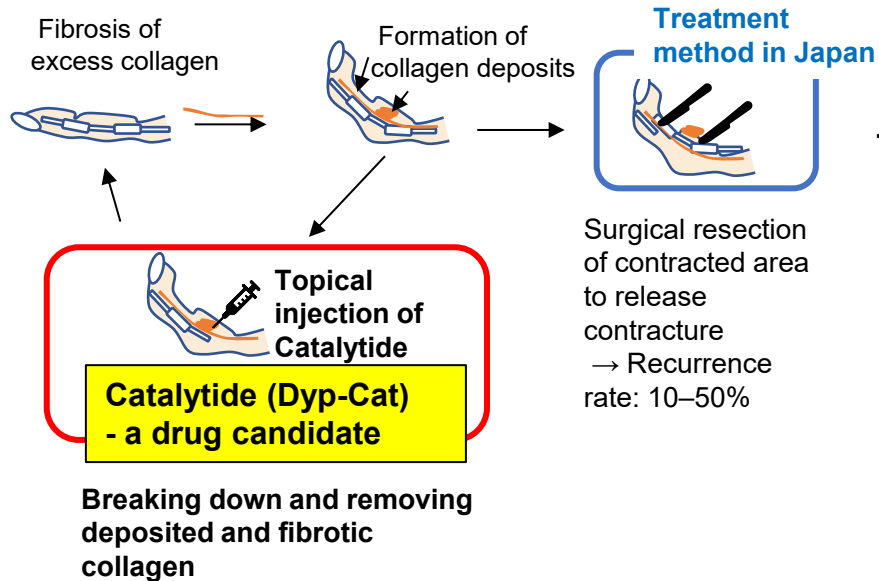


[Development of Dupuytren's Contracture Treatment]

<Current Treatments>

- Dupuytren's contracture is a condition in which collagen fibres in the palms proliferate excessively, leading to the formation of contracture cords.
- No cure to date. Existing treatments are limited to symptomatic therapy.

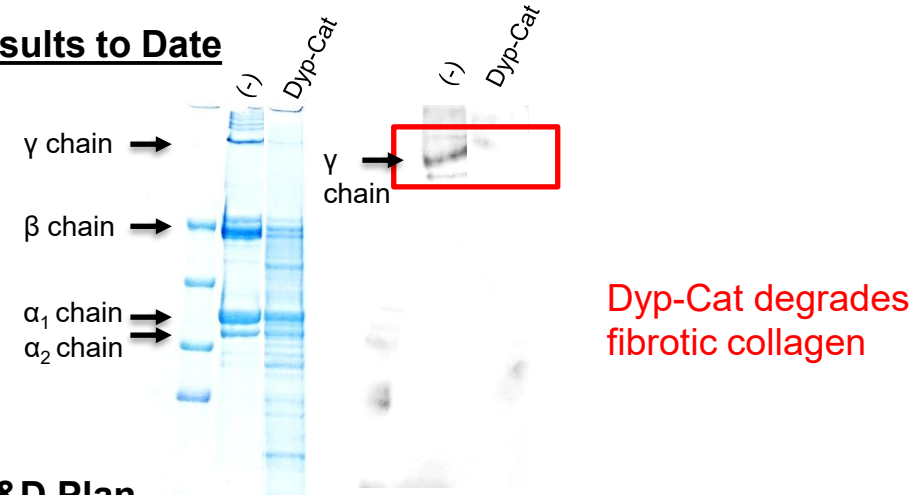
There is a need for new approaches to break down and remove fibrotic collagen.



<Research Goal>

To develop a cure for Dupuytren's contracture by using Catalytide which breaks down and removes fibrotic collagen.

Results to Date



R&D Plan

(1) Comparative studies and analysis of cleavage points

Calculate specific activity of Dyp-Cat relative to type I collagenase, an existing drug. Analyse degradation rate using fluorescently labelled collagen as a substrate. Identify specific sites of type I collagen targeted by Catalytide to demonstrate its degradative activity.

(2) Safety studies on local administration

Inject Catalytide locally around the femoral nerve in rats. Assess toxicity in nerves, muscles and subcutaneous tissues.

(3) Pharmacological evaluation using human pathological samples

Obtain data directly demonstrating efficacy in human pathological tissues.

Timeline

