

**Docket #:** S19-083

# Targeting Wnt11 Reduces Fibrosis Around Implants

Stanford researchers have targeted Wnt11 to reduce capsular fibrosis around implants. Fibrosis commonly occurs following surgical implantation of devices resulting in pain, discomfort, and implant damage. Implants into Wnt11-knockout mice displayed a loose network of fewer and significantly thinner capsules after 3 months as compared to capsules in regular mice. 1,8-cineol addresses the current lack of Wnt11 inhibitors and can be used as an implant coating, through topical administration or through oral administration to reduce fibrosis.

## Stage of Research

- Proof of concept

## Applications

- **Biomedical implants**

## Advantages

- **Significant reduction in capsule size**
- Prevents formation of tight capsule network

## Patents

- Published Application: [WO2021021452](#)

## Innovators

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