

NanoSuit® Aqueous Solution for SEM

Enables observation of live specimens in the SEM

NanoSuit is a novel technology which enables observation of cells, microorganisms, tissues, etc. in a living state using scanning electron microscopy (SEM).

NanoSuit forms a very thin barrier layer on the surface of a specimen which is electrically conductive and which holds moisture in the sample under vacuum conditions in the electron microscope. It is very easy to use requiring only one drop of solution on the specimen before placing in the SEM. No prior fixation or preparation is required.

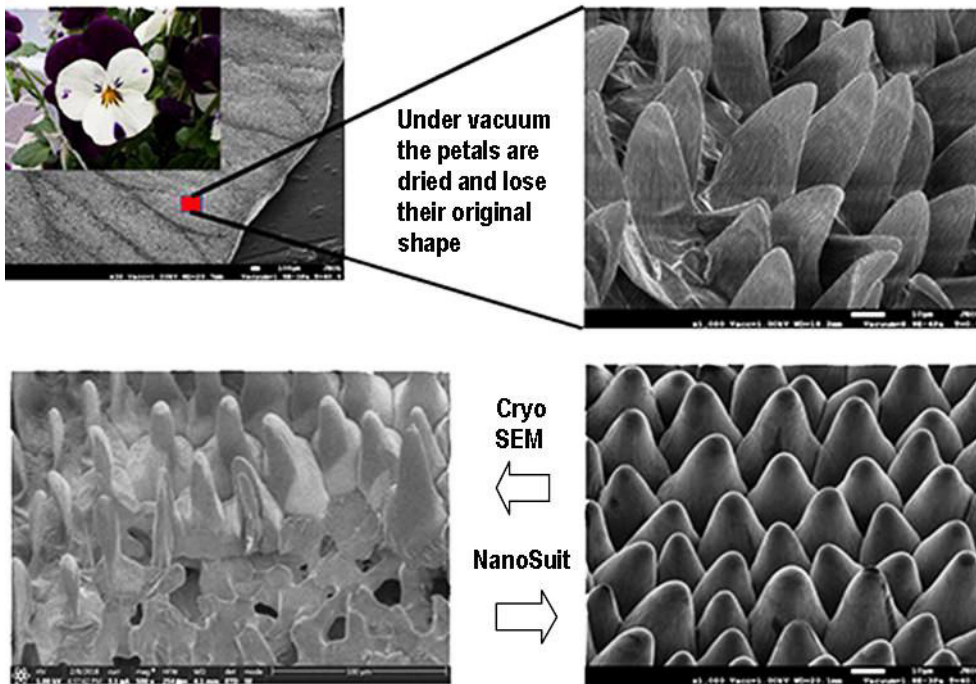
Developed by Prof. Takahiko Hariyama in Japan, the aqueous solution is a biocompatible and safe polymer which is just dropped onto objects to be investigated. The electron beam polymerises the layer forming a thin barrier over the surface of the specimen. This barrier hold moisture and it's conductivity provides clear SEM images.

See the following links. Patience is required with the Japanese voiceover!:

<https://www.youtube.com/watch?v=F-GiKiBZozA>

<https://www.youtube.com/watch?v=bJ9fNe5SddU>

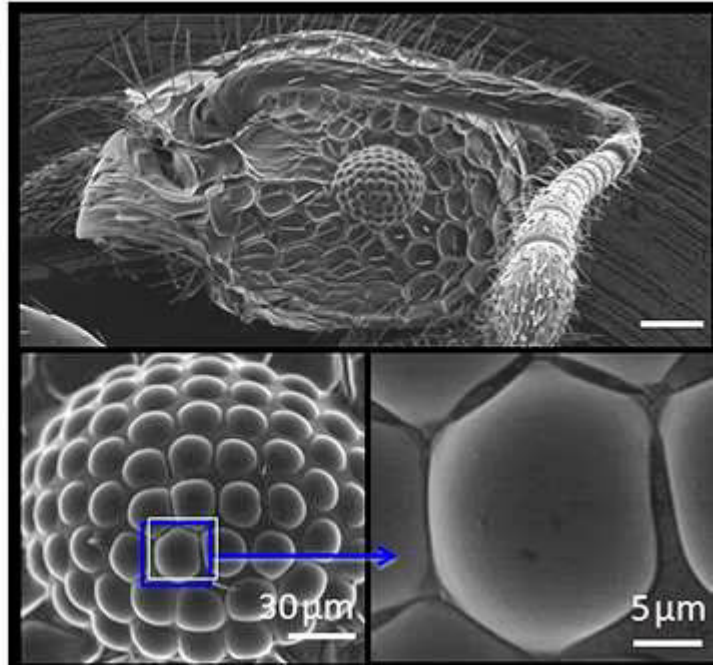
Flower Petal example



NanoSuit permits high magnification images of insects body surfaces and retains the texture of living cells allowing to distinguish between cancerous and normal tissue.

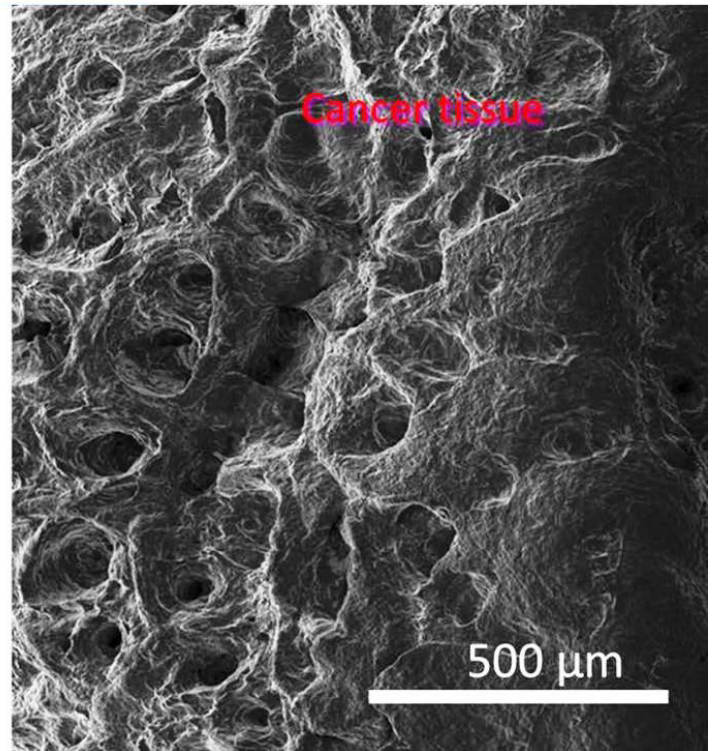
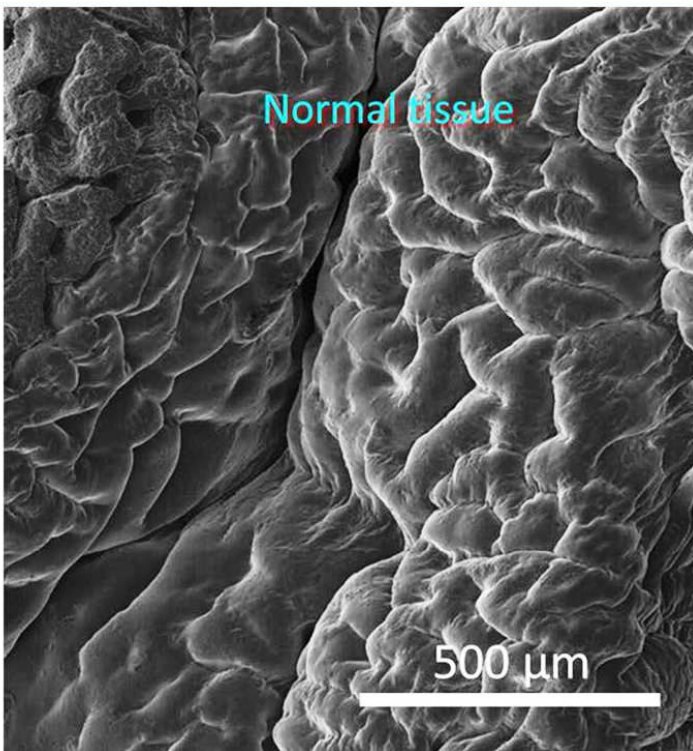
NaoSuit cont...

Pristomyrmex punctatus



Human Stomach Cancer (normal and cancer tissue)

SSE / nanosuit method



N063 Nanosuit solution 1 for micro-organisms/living tissues 5ml

N063/C NanoSuit solution 2 for CLEM (coming soon)