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The NanoSuit®, Imaging living organisms in a scanning electron microscope

An electron microscope requires a high vacuum condition, therefore, the complicated procedures have been needed to maintain the shape of biological samples containing as much as 80% of moisture. The NanoSuit® method is a technique to form a nano-thin film on the surface of a biological sample using biocompatible polymer solution. It has an advantage to develop biological/medical applications to observe wet and living samples as it is in a short time. The NanoSuit® method is a unique technology developed in Japan. Dramatically different images are observed compared with the conventional technique requiring fixing / drying procedures.

CV

He is a biologist trained as a vision physiologist. Now, he is especially interested in biomimetics and live imaging of organisms in electron microscope. He was born in Tokyo. He graduated from Yokohama City University, and entered the master's course of Marine biology in Okayama University, and the doctor's course of Medicine in Tohoku University. Because he is a biologist, he visited several parts of the world for his research, as a visiting scientist or visiting professor.