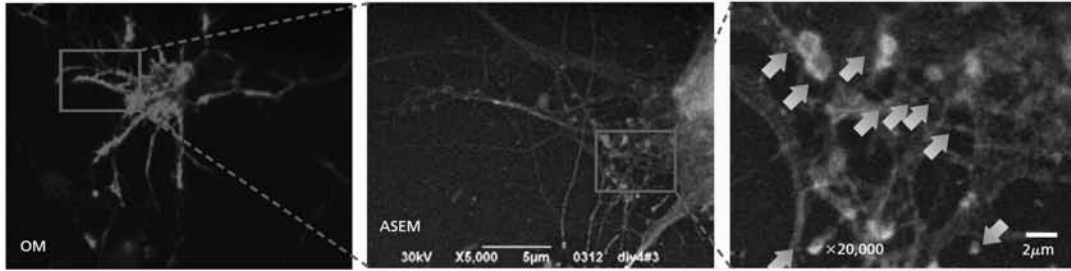


# Observation of Specimens at Atmospheric Pressure

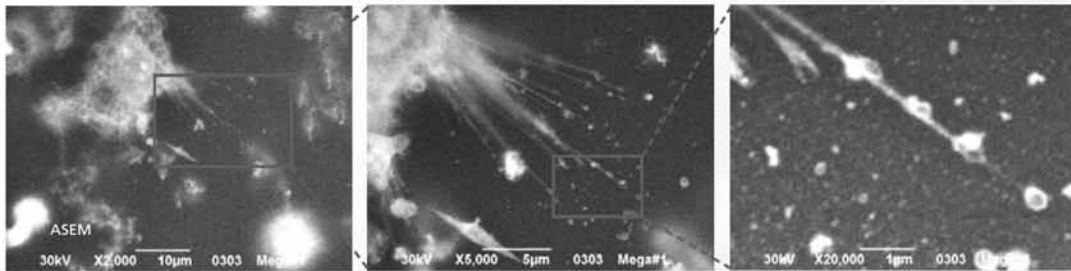
Biology

## Neuronal network (in solution)



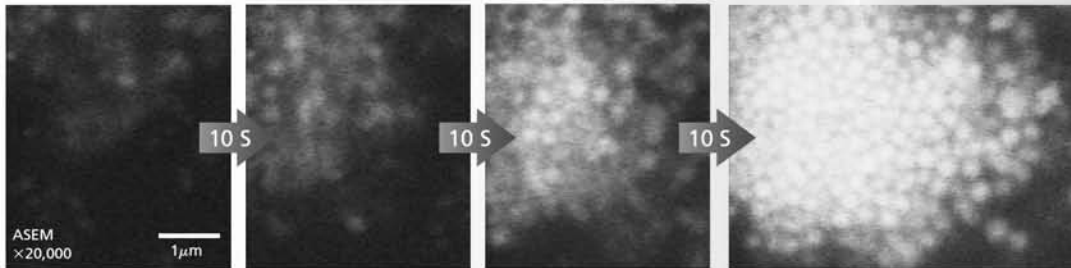
Courtesy of  
Dr. Takashi Shiga,  
Functional molecular  
medicine, University of  
Tsukuba Graduate  
School of Comprehensive  
Human Science.

## Cell differentiation (platelet generation in solution)



Courtesy of  
Dr. Hozumi Motohashi,  
Dr. Masayuki Yamamoto,  
Medical Biochemistry,  
Tohoku University  
School of Medicine.

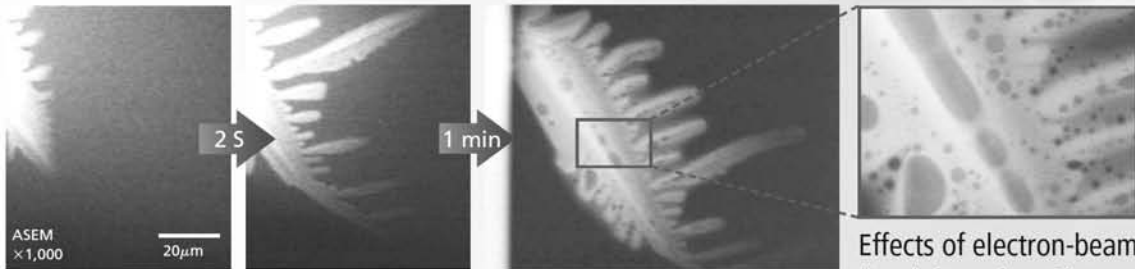
## Self-organization (dynamic observation in solution)



(Sample frames from video recording)

Courtesy of  
Dr. Ichio Shimada,  
Graduate School of  
Pharmaceutical  
Sciences, The University  
of Tokyo.

## Crystallization (dynamic, in atmosphere)



Effects of electron-beam irradiation  
(Sample frames from video recording)

Physics/  
Chemistry



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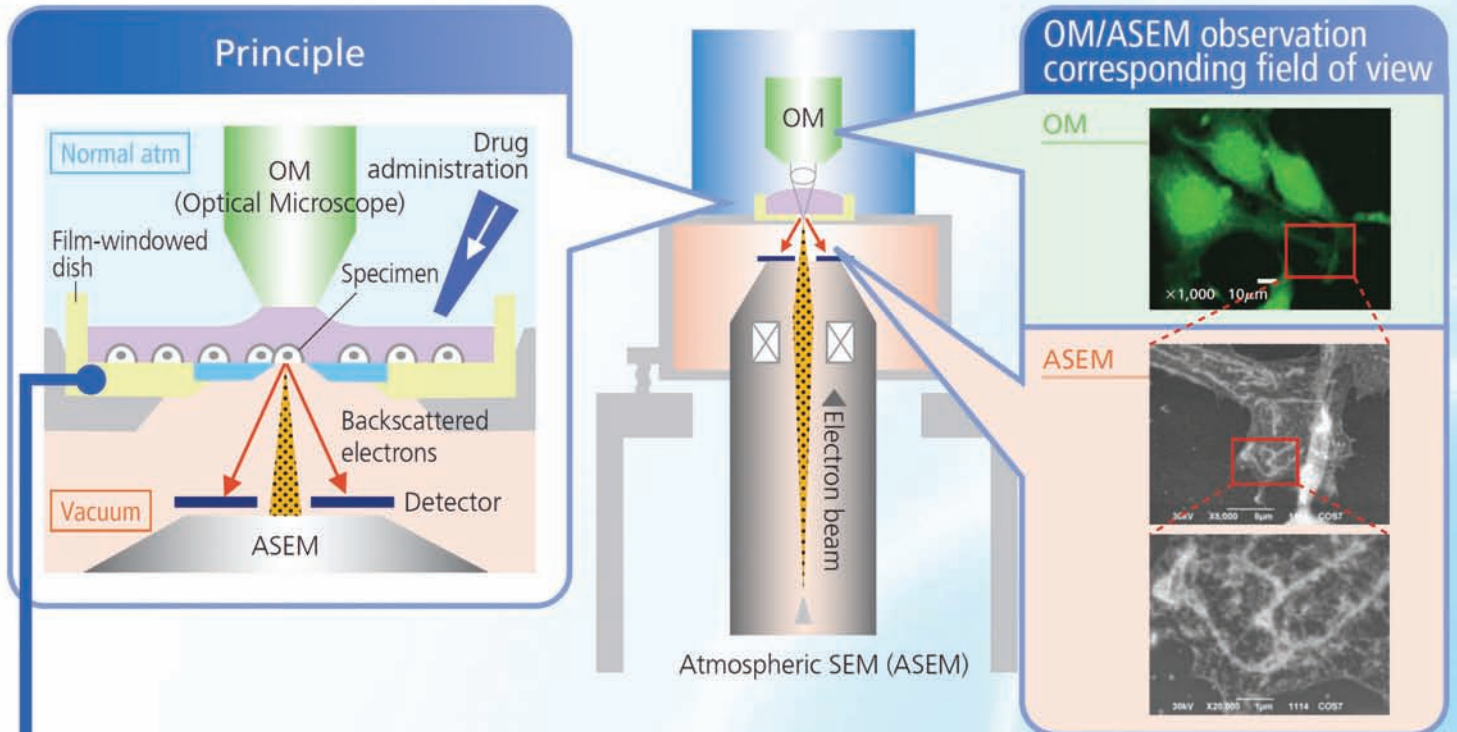
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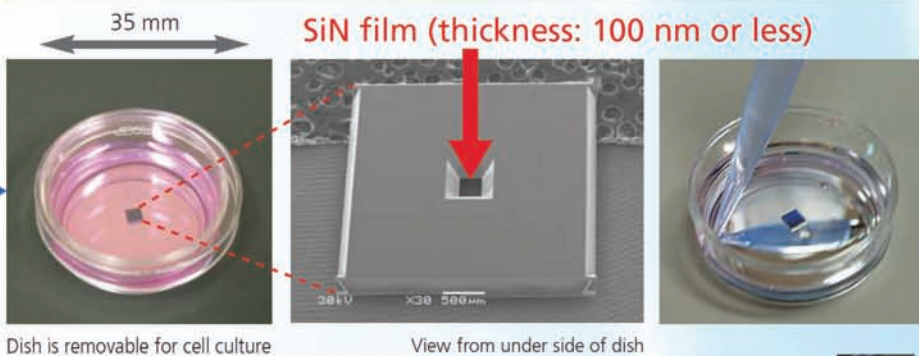
# ClairScope™ JASM-6200

SEM observation of specimens at normal atmospheric pressure



Courtesy of Dr. Toshihiko Ogura, Dr. Chikara Sato, Neuroscience Research Institute, Advanced Industrial Science and Technology.

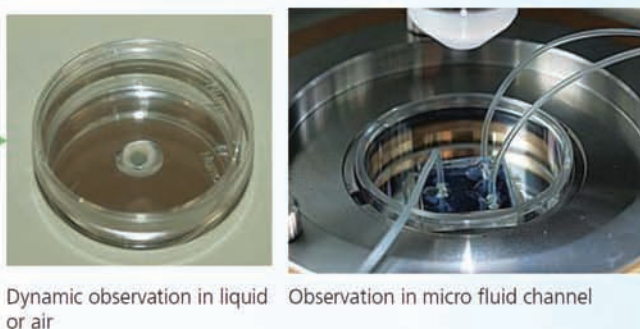
## [Biological applications]



Reduce pre-treatment  
(reagent exchange only)

High throughput observation  
(A few days → about 10 min)

## [Physical/Chemical applications]



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