

# Bio-TEMのエネルギーフィルタリングによる解像度の改善\*

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Resolution Improvement by Energy Filtering in Bio-TEM

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## Abstract

The electron microscope to observe biological samples at atmospheric pressure has been proposed. The major principle of the present instrument is that a biological sample is set in a conventional transmission electron microscope (TEM) beam-line, but it is isolated, a clear image could be obtained, if the bulkhead was 100nm thick beryllium foil. In the present study, the feasibility of the image resolution improvement is examined by the energy filtering of transmitted electrons.

## Keyword :

biological samples, atmospheric pressure, Bio-TEM, Be-bulkhead, electron trajectory simulation, energy filtering, resolution improvement

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