Transform your SEM to a Volume SEM One Slice at a Time with In-situ Microtome

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SEM is an indispensable tool in a researcher's toolbox for studying the structure of biological systems at the micro to nano scale. However, typical SEM imaging modes can only provide a 2D view of the surface. To look 'inside' and reconstruct a 3D view, Volume SEM (vSEM) methods are gaining in popularity. Here we will discuss considerations in SEM resolution and detectors for vSEM as it relates to in-situ, Serial Block Face (SBF) imaging. An example of transforming an SEM to an automated SBF-SEM will be discussed.