

Abstracts

Comparison of Microwave and Convective Heating in Rapid Specimen Preparation Techniques for Electron Microscopy

J.B. Leonard and S.P. Shepardson. "Comparison of Microwave and Convective Heating in Rapid Specimen Preparation Techniques for Electron Microscopy." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1263-1266.

Chemical fixatives preserve tissue for electron microscopy. Microwave heating reduces fixation time from hours to seconds. Comparison of microwave heating (915 MHz and 2.45 GHz) with convective heating suggests that acceleration of fixation is not unique to microwave exposure. Other heating modes appear suitable and may have advantages in cost and convenience.

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