

Low-Temperature Microscopy and Analysis



Patrick Echlin

Low Temperature Microscopy And Analysis

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Low Temperature Microscopy And Analysis:

Low-Temperature Microscopy and Analysis Patrick Echlin, 2013-11-11 The frozen hydrated specimen is the principal element that unifies the subject of low temperature microscopy and frozen hydrated specimens are what this book is all about Freezing the sample as quickly as possible and then further preparing the specimen for microscopy or microanalysis whether still embedded in ice or not there seem to be as many variations on this theme as there are creative scientists with problems of structure and composition to investigate Yet all share a body of common fact and theory upon which their work must be based Low Temperature Microscopy and Analysis provides for the first time a comprehensive treatment of all the elements to which one needs access What is the appeal behind the use of frozen hydrated specimens for biological electron microscopy and why is it so important that such a book should now have been written If one cannot observe dynamic events as they are in progress rapid specimen freezing at least offers the possibility to trap structures organelles macro molecules or ions and other solutes in a form that is identical to what the native structure was like at the moment of trapping The pursuit of this ideal becomes all the more necessary in electron microscopy because of the enormous increase in resolution that is available with electron optical instruments compared to light optical microscopes *Low Temperature Biological Microscopy and Analysis*, 1986 *Low temperature biological microscopy and analysis* International Low Temperature Biological Microscopy and Analysis Meeting (3, 1985, Cambridge), 1985 Low Temperature Biological Microscopy and X-Ray Microanalysis Royal Microscopical Society (Great Britain), *Low-temperature Biological Microscopy and Analysis I.*, 1990 *Low-temperature Biological Microscopy and Analysis I.*, 1991 Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.), 1971 **Fourth International Meeting on Low Temperature Biological Microscopy and Analysis** International Meeting on Low Temperature Biological Microscopy and Analysis, 1991 *Publications of the National Bureau of Standards* United States. National Bureau of Standards, 1970 **Drosophila Protocols** William Sullivan, M. Ashburner, R. Scott Hawley, 2000 *Low temperature biological microscopy and analysis*, 1985 **NBS Special Publication**, 1968 Publications United States. National Bureau of Standards, 1971 **Publications of the National Bureau of Standards, 1970** Betty L. Oberholtzer, 1971 Analysis of Frozen Desserts Using Low-Temperature Scanning Electron Microscopy (LT-SEM) Kinsey Elizabeth MacDonald, 2018 4th International Meeting on Low Temperature Biological Microscopy and Analysis Patrick Echlin, Kurt Zierold, Deutsche Gesellschaft für Elektronenmikroskopie, Royal Microscopical Society (Great Britain), 1990 *Low Temperature Biological Microscopy* International Low Temperature Biological Microscopy and Analysis Meeting, 1982 **Index of Conference Proceedings**, 1990 Enhanced Floral Analysis by Low Temperature Scanning Electron Microscopy, 1988 *New Technical Books* New York Public Library, 1992

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