



## Contamination in tissue culture [

Fogh, Jørgen

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Electronic books

Monografía

Contamination in Tissue Culture

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**Contenido:** Front Cover; Contamination in Tissue Culture; Copyright Page; Table of Contents; List of Contributors; Preface; Chapter 1. Extrinsic Cell Contamination of Tissue Culture; I. Introduction; II. Interspecies Identification of Cell Cultures; III. Intraspecies Identification of Cell Cultures; IV. Current Status of Cell Contamination; References; Chapter 2. Methods of Prevention of Bacterial, Fungal, and Other Contaminations; I. Source of Infection; II. Procedures within the Transfer Room; III. Laminar Flow Transfer Room; IV. Aseptic Technique; V. Antibiotics; VI. Summary; References Chapter 3. Contamination of Tissue Culture by Bacteria and Fungi I. Introduction; II. Materials and Methods; III. Results; IV. Discussion; V. Summary; References; Chapter 4. Contaminants Demonstrated by Microscopy of Living Tissue Cultures or of Fixed and Stained Tissue Culture Preparations; I. Preparation of Cell Cultures for Microscopy; II. Methods of Microscopy; III. Photomicrographs Illustrating Various Types of Contaminants in Cell Cultures; IV. Review of Data Obtained by Microscopy of Mycoplasma-Infected Cultures after Hypotonic Treatment and Orcein Staining; References Chapter 5. Contamination of Mammalian Cells in Culture by Mycoplasma I. Introduction; II. Biology of the Mycoplasmatales; III. Epidemiology of the Contamination of Cell Cultures with Mycoplasmata; IV. Host-Parasite Relationship of Mycoplasmata and Mammalian Cells; V. Effect of Mycoplasmata on Cell Cultures; VI. Elimination of Mycoplasmata from Cell Cultures; VII. Conclusions; References; Chapter 6. Mycoplasmal Contamination of Cell Cultures: Mycoplasma-Virus-Cell Culture Interactions; I. Introduction; II. Classification; III. Detecting Cell Culture Contamination IV. Mycoplasmal Contamination V. Interactions between Mycoplasmas and Animal Cells; VI. Mycoplasma-Virus-Cell Interactions; References; Chapter 7. Reversible and Irreversible Alterations of Cultured FL Human Amnion Cells after Experimental Mycoplasmal Infection; I. Effects of Mycoplasmal Infection

on the in Vitro Growth of FL Cells; II. In Vitro Growth and Susceptibility to Mycoplasmal Infection of Previously Mycoplasma-Infected Cells from which Mycoplasmas Have Been Eliminated; III. Chromosome Changes following Mycoplasmal Infection of FL Cells IV. Reduced Tumor-Producing Capacity of Mycoplasma-Modified FL Cells V. Effects of Mycoplasmas on SV40 Transformation of Human Amnion Cells; VI. Decreased Resistance of Transformed Human Cells to the Destructive Effects of Mycoplasmal Infection; VII. Cell-Associated Mycoplasmas: Preferential Attachment to Transformed Cells and Cells of Malignant Origin; VIII. Discussion of Results; References; Chapter 8. Contamination in Tissue Culture by Parasites; I. Introduction; II. Identification of the Amoebae; III. Source of Contamination; IV. Methods of Detection, Prevention, and Cure; V. Summary  
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