Functional Ultrastructure: Atlas of Tissue Biology and Pathology

Margit Pavelka, Jrgen Roth
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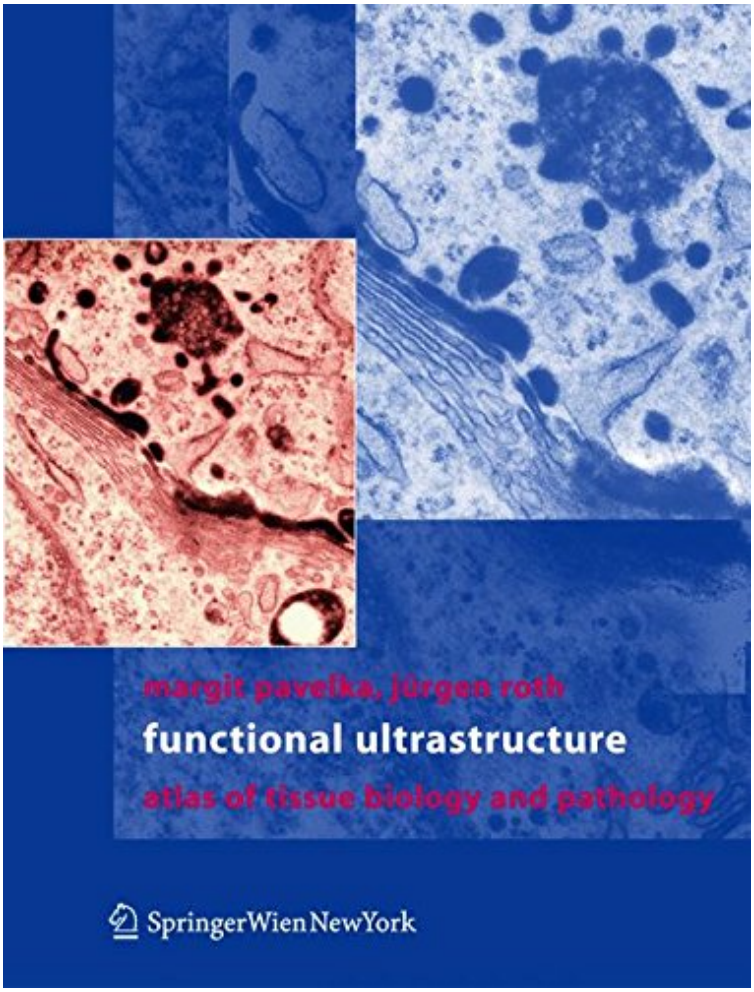

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Margit Pavelka, Jrgen Roth : Functional Ultrastructure: Atlas of Tissue Biology and Pathology before purchasing it in order to gage whether or not it would be worth my time, and all praised Functional Ultrastructure: Atlas of Tissue Biology and Pathology:

This atlas of functional ultrastructure provides not only a detailed insight into the complex structure and organization of cells and tissues but also into specific functions fulfilled by the various cellular organelles and the dynamics of the different processes inside cells. The large collection of electron micrographs, together with those from immunoelectron microscopy, is complemented by thorough explanatory texts and schemes. Emphasis was placed on an integrated view of structure and function to show that subcellular organelles provide the structural foundation for

fundamental processes of living organisms. Specialized cell types form the various tissues, and principles of tissue organization are presented. Under various conditions of disease, characteristic structural alterations may occur which are illustrated with examples thus providing a valuable source of information for scientists and students of Medicine and Biological Sciences, particularly of Histology, Cell and Molecular Biology.

"... I recommend this atlas to all students of biology and pathology but especially those people buying for a university / TAFE library where students or researchers will be using this text." Australian Journal of Medical Science 2/2006, vol. 27, No. 1From the Back CoverThis atlas of functional ultrastructure provides a detailed insight into the complex structure and organization of cells and tissues, highlights specific cellular and tissue functions, and the dynamics of diverse intracellular processes. Highly informative electron micrographs are complemented by explanatory texts, selected references and schemes. The concept that subcellular organelles provide the structural foundation for fundamental processes of living organisms is emphasized. The first part covers the cellular organelles and changes due to experiments or occurring under pathological conditions. The second part illustrates by selected examples principles of functional tissue organization and typical changes resulting from experimental induction or pathological situations. About the AuthorProfessor Margit Pavelka, MD. Studies in Medicine, University of Vienna. Medical training at the Vienna Hospital Rudolfstiftung and at the Vienna General Hospital. Specialization in Internal Medicine. Resident at the Institute of Micromorphology and Electron Microscopy, Vienna. Specialization in the fields of electron microscopy, cytology, histochemistry, cytochemistry, and ultrastructural histology.Habilitation and University Docent in Histology and Embryology. Professor of Histology and Embryology, University of Innsbruck. Currently Professor of Histology and Embryology, Medical University of Vienna. Main research interests: Morpho-functional organization of the Golgi apparatus; secretory and endocytic pathways; visualization of cellular dynamics; cell traffic in health and disease; cellular stress.Professor Jrgen Roth, MD, PhD. Studies in Medicine, Friedrich-Schiller-University, Jena. Resident at the Institute of Pathology, Friedrich-Schiller-University, Jena. Habilitation and University Docent in Pathology, Friedrich-Schiller-University, Jena. Research Associate, Department of Morphology, University of Geneva. Associate Professor of Cell Biology, Biozentrum, University of Basel. Professor Emeritus of Cell and Molecular Pathology, University of Zurich. Currently Distinguished Professor, World Class University Programme, Department of Biomedical Science, Yonsei University, Seoul. Main research interests: Topography of protein glycosylation; protein quality control; protein folding diseases; carcinoma-associated glycoconjugates.