



## The Golgi Apparatus

By Hilton H. Mollenhauer

Springer Okt 2010, 2010. Taschenbuch. Book Condition: Neu. 235x155x17 mm. This item is printed on demand - Print on Demand Neuware - The Golgi apparatus (GA), found universally in both plant and animal cells, is typically comprised of a series of five to eight cup-shaped, membrane-covered sacs called cisternae that look something like a stack of deflated balloons. The GA is often considered the 'distribution and shipping department' for the cell's chemical products. It modifies proteins and lipids (fats) and prepares them for export outside of the cell or for transport to other locations in the cell. The Golgi Apparatus traces the first 100 years of GA discovery from the first published accounts from Pavia, Italy, in 1898 to the Centenary Celebration in Pavia, Italy, in 1998 to our most recent discoveries. It summarizes the past 50 years beginning with the modern era of GA discovery initiated in 1954 and made possible by the advent of the electron microscope, methods of cell fractionation and biochemical analysis, leading up to the present era with almost exclusive focus on molecular biology. Emphasized are organization and function (especially in plants), the existence and importance of cisternal tubules, development of methods of plant and...



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