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Schekman, R., Goldstein L., Rossant, J. (ed.): **Annual Review of Cell and Developmental Biology. Volume 21.** - Annual Reviews, Palo Alto 2004. 784 pp. ISBN 0-8243-3121-4.

The Introductory Chapter "In awe of subcellular complexity: 50 years of trespassing boundaries within the cell" is written by one of the founders of modern cell biology David D. Sabatini. Readers of *Biologia Plantarum* will find especially interesting the reviews: Mechanisms of apoptosis through structural biology (N. Yan and Y. Shi), Assembly of variant histones into chromatin (S. Henikoff and K. Ahmad), Molecular mechanisms of steroid hormone signaling in plants (G. Vert *et al.*), Anisotropic expansion of the cell wall (T.I. Baskin), Spatial control of cell expansion by the plant cytoskeleton (L.G. Smith and D. G. Oppenheimer), RNA silencing systems and their relevance to plant development (F. Meins Jr., *et al.*), Centrosoms in cellular regulation (S. Doxsey *et al.*), and Regulation of root apical meristem development (K. Jiang and L.J. Feldman). Other topics covered include: Phospho-inositide phosphates, Principles of lysosomal membrane digestions,

Cajal bodies and disease, Planar cell polarization, RNA transport and translation, Rho GTPases, Cell-to-cell communication in bacteria, Dynamics of the nuclear envelops, Integrin structure, Endoplasmic-reticulum degradation, Lymphatic vasculature, Phagocytosis, Protein translocation, Retinotectal mapping, *In vivo* imaging of lymphocytic trafficking, Stem cell niche, DHA and Neuronal Function, Specificity in Smad signaling, and Invasion signatures of breast tumors.

The reviews include extensive references to the literature and are written in such a way, as to be valuable both to advanced students and scientist. All articles were written by the foremost experts in the field. Annual Reviews is a nonprofit scientific publisher established to promote advancement of the sciences.

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