



PROTEOMICS Cellular proteins and peptides

Fernando Fussi

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Summary

The book, divided in 16 Sections, classifies and describes the properties of the numberless proteins and peptides constituting the main portion of the living cells.

A special attention is devoted to peculiar arguments, as:

genome structure, mutations and mutagens, gene repair and apoptosis, gene manipulation (Sect.1);
analysis and synthesis of peptides and polynucleotides (Sect.2);
simple and conjugate proteins, visual cycle, circadian clocks, heme proteins (Sect.3);
carrier proteins, proteases and inhibitors, factors of haemostasis and fibrinolysis (Sect.4);
collagens, keratins, proteoglycans (Sect.5);
adhesion proteins and ligands, spermatogenesis, fertilization (Sect.6);
structural proteins, cytoskeleton components, contractile systems (Sect.7);
innate and adaptative immunity, antigens and antibodies, T and B effectors, cytotoxic mechanisms, the inflammatory response (Sect.8);
growth factors, stem cells and reprogramming, embryogenic and morphogenic proteins, neurotrophic factors, chaperonins (Sect.9);
ion channels, transporters, toxins and animal neurotoxins (Sect.10);
translocation, transmembrane channels, vesicle formation and endo-exocytosis (Sect.11);
short range messengers (cytokines): interleukins, tumor necrosis factor family, interferons (Sect.12);
long distance messengers: peptidic and proteic hormones (Sect.13);
synaptic transmission, neuropeptides, neurotransmitters and neuroreceptors, molecular basis of memories, appraisal, cognition, mood, and their disturbances (Sect.14);
biochemistry of signal transduction: first and second messengers, signaling receptors and cyclases, G proteins and GTPases, phosphorylative modulation and protein kinases, other enzymatically driven intracellular regulations (Sect.15);
virus structure and classification, phage, episomes, plasmids, viral diseases, prions, protein conformation-dependent diseases, dementias (Sect.16);
Trends in cancer pharmacological therapy (App.B);
Some nuclear transcription factors (App.C).

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