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Identification of Fatty Acid Transporter Proteins; 2.3 Structure of FATPs; 2.4 Function of FATPs
2.5 Regulation of FATP expression 2.6 Significance of FATPs; 2.7 References; 3 Function, Expression, and Regulation of Human ABC Transporters; 3.1 Introduction; 3.2 Structural Features of ATP Binding Cassette (ABC) Transporters; 3.3 Overview of Human ABC Gene Subfamilies; 3.3.1 The ABCA (ABC1) Subfamily; 3.3.2 The ABCB (MDR/TAP) Subfamily; 3.3.3 The ABCC (CFTR/MRP) Subfamily; 3.3.4 The ABCD (ALD) Subfamily; 3.3.5 The ABCE (OABP) and ABCF (GCN20) Subfamilies; 3.3.6 The ABCG (White) Subfamily; 3.4 Diseases and Phenotypes Caused by ABC Transporters; 3.4.1 Familial HDL-deficiency and ABCA1
3.4.2 Retinal Degeneration and ABCA4 (ABCR) 3.4.3 Cystic Fibrosis (ABCC7/CFTR); 3.4.4 Multidrug Resistance (ABCB1/MDR1, ABCC1/MRP1, ABCG2); 3.4.5 Adrenoleukodystrophy (ABCD1/ALD); 3.4.6 Sulfonylurea Receptor (ABCC8/SUR); 3.5 Function and Regulation of ABC Transporters in Lipid Transport; 3.5.1 ABCA1 in Macrophage Lipid Transport; 3.5.2 ABCG1 and Other ABCG members in Sterol Homeostasis; 3.5.3 ABC Transporters involved in Hepatobiliary Transport; 3.6 Conclusions and Perspectives; 3.7 References; 4 Albumin Receptors - Structure and Function; 4.1 Introduction 4.2 The Search for an Albumin Receptor 4.2.1 The Endothelium-Albumin Relationship: Early Concepts; 4.2.2 Identification of Receptors for Native and Modified Albumin in Endothelial Cells; 4.3 Albumin Receptors in the Kidney; 4.3.1 Glomerular Handling of Albumin; 4.3.2 Binding and Uptake of Albumin in the Kidney Proximal Tubule; 4.4 Megalin and Cubilin as Proximal Tubule Albumin Receptors; 4.4.1 Megalin; 4.4.2 Cubilin; 4.5 Albumin as a Signaling Molecule - Implications for Albumin Receptor Function; 4.5.1 LDLR Family as Signaling Receptors; 4.5.2 Megalin as a Signaling Receptor; 4.6 Summary
4.7 References

Sommario/riassunto

In light of the increasing importance of these proteins and their ligands for our understanding of cellular growth, differentiation, and development, as well as of diseases such as obesity, insulin resistance, atherosclerosis, cancer, and inflammation, a team of internationally renowned editors and authors have compiled here the very first comprehensive book on these topics. They describe fatty acid-activated transcription factors as well as membrane and soluble fatty acid transporters, covering such aspects as structure and function, lipid-protein interaction, delivery of ligands, and the role
