



# Membrane Transporter Diseases

*Stefan Bröer, Carsten A. Wagner*

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## **Membrane Transporter Diseases** Stefan Bröer, Carsten A. Wagner

Every cell and organism faces the problem of spaces, made up of the two leaflets of the lipid bilayer generating a confined space in which metabolic reactions take place and at the same time allowing entry and exit of metabolites. The importance of traffic and signaling across membranes is reflected by the estimate that 20% of all genes in the human genome encode membrane proteins. A failure of any of these proteins may have dramatic consequences for cell function. Evolution has solved the problem by these proteins may have dramatic consequences for cell function. In recent years much attention has been paid to diseases resulting from nonfunctional ion channels ("channelopathies"). Not surprisingly, many of these diseases affect the excitability of cells. membrane consists of two relatively separate layers. Transporter diseases (perhaps coined "carrier vs. channel diseases") are more related to metabolic disorders. Each chapter is concluded by a summary, and Transporters are frequently found at the most chapters also contain an overview of the beginning or the end of metabolic pathways clinical features of a particular transporter and as a result can have similar effects to disease. a missing enzyme.

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