



# CO- AND COUNTER- TRANSPORT MECHANISMS IN CELL MEMBRANES

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## INTRODUCTION

The relations between lipid solubility and membrane permeability are often the starting point in texts dealing with transport. The lipid core of the membrane forms the primary barrier for molecular diffusion, but most biologically important small molecules, particularly ions, have specific transport mechanisms in cell membranes, and the impermeability of the lipid bilayer only emphasizes the control these specific pathways have on transport between the interior of cells and their environment. This review concerns only the specific transport mechanisms that permit the coupling of transport between molecules. In most cases this coupling does not result from the formation of direct complexes in solution between the various transported molecules but rather requires a membrane component to form binary complexes (ping pong mechanisms) or tertiary or higher order complexes (sequential or simultaneous mechanisms) with the transported molecules. In other words, these are cases of facilitated transport. In other cases the coupling is the result of direct complexation (e.g. ion pair formation) that occurs in solution to form a complex more permeant than perhaps either component but certainly more permeant than one of the components alone. Facilitated transport involves at least three conceptually separate steps: (*a*) complexation of the transported molecules to the membrane component; (*b*) the transport step, in which access of the complex to one solution is occluded while access to the opposite solution is created; and (*c*) the decomplexation of the transported molecules from the membrane component into the opposite solution. Enzymologists working in a homoge-

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stunden 118 orte in verschiedenen regionen der ukraine beschossen und angegriffen der