

モネンシン

Na⁺と結合する線状ポリエーテルカルボン酸







NMR structure of gramicidin A embedded in a dimyristoyl phosphatidylcholine bilayer.





X-Ray structure of the KcsA K⁺ channel from *Streptomyces lividans*.





Portions of the KcsA K* channel responsible for its ion selectivity viewed similarly

D80



A schematic diagram of the KcsA K⁺ channel

Predicted secondary structure and membrane orientation of voltage-gated K^{\star} channels.







Figure 10-8





MacKinnon

The Nobel Prize in Chemistry 2003 was awarded for "for discoveries concerning channels in cell membranes" jointly with one half to Peter Agre "for the discovery of water channels" and with one half to Roderick MacKinnon "for structural and mechanistic studies of ion channels".

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ウシ赤血球アクアポリンAQP1のX線構造



Figure 10-11a



Thermodiynamic Principles



