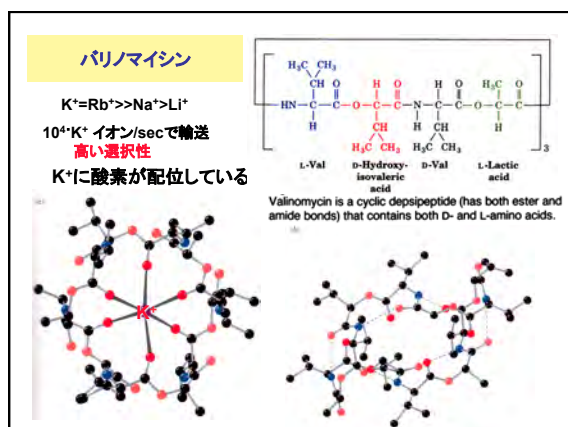
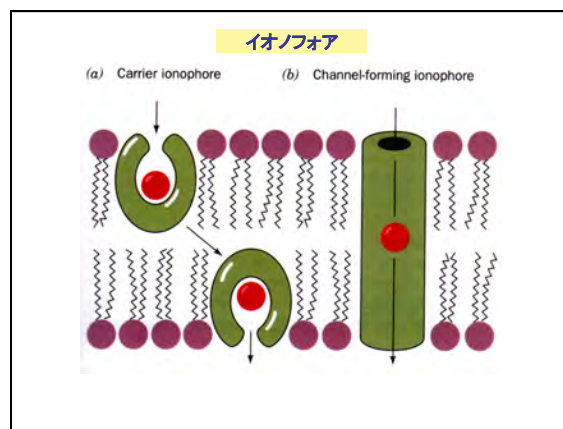
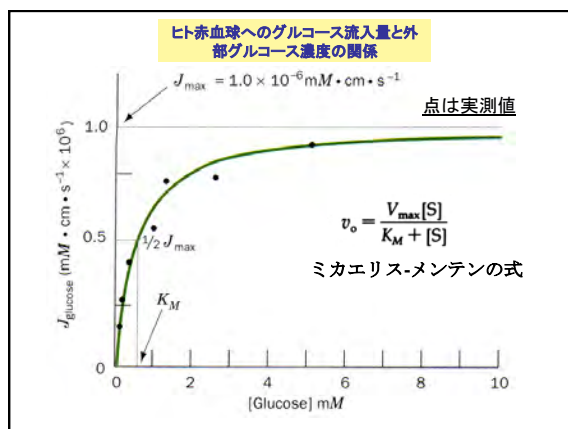


生体膜と合成膜での糖の透過係数

Permeability Coefficients of Natural and Synthetic Membranes to D-Glucose and D-Mannitol at 25° C

Membrane Preparation	Permeability Coefficients (cm · s ⁻¹)	
	D-Glucose	D-Mannitol
Synthetic lipid bilayer	2.4×10^{-10}	4.4×10^{-11}
Calculated nonmediated diffusion	4×10^{-9}	3×10^{-9}
Intact human erythrocyte	2.0×10^{-4}	5×10^{-9}

Source: Jung, C. Y., in Surgenor, D. (Ed.), *The Red Blood Cell*, Vol. 2, p. 709, Academic Press (1975).



水素とアルカリ金属

	H	Li	Na	K
第一イオン化エネルギー (kcal/mol)	313	124	118	100
原子半径 (Å)	1.0	1.55	1.90	2.35
イオン半径 (Å)		0.64	0.95	1.33
標準水素エンタルピー (kJ/mol)	1090	520	405	321
水素イオンの溶解熱 (10 ⁻⁵ cal ² /V ² · g)	362	40	51	76

TABLE 13.2 Properties of alkali cations

Ion	Ionic radius (Å)	Hydration free energy in kcal mol ⁻¹ (kJ mol ⁻¹)
Li ⁺	0.60	-98 (-410)
Na ⁺	0.95	-72 (-301)
K ⁺	1.33	-55 (-230)
Rb ⁺	1.48	-51 (-213)
Cs ⁺	1.69	-47 (-197)

Li⁺ · H₂O Na⁺ · H₂O ⁺H₂N-OH (Hydroxylamine) ⁺H₂N-NH₂ (Hydrazine) K⁺ · H₂O

