Fig. 5.1: Triple point of water



(Le Chatelier's principle)

Fig. 5.2: Insulation material



Fig. 5.3: Adiabatic compression and expansion



Fig. 5.4: Heat exchanger



Fig. 5.5: Thermography



Fig. 5.6: Cell culture in magnetic field



Fig. 5.7: Membrane destruction during freeze



Fig. 5.8: Lipid bi-layer

Electrolytic solution Hydrophilic Hydrophobic Hydrophobic Electrolytic solution Hydrophilic Hydrophilic

(liquid crystal)



Fig. 5.10: Transport through membrane



Fig. 5.11: Acceleration of permeability

Boundary layer Membrane



Fig. 5.12: Vibrating membrane oxygenator

Valve



Silicone tube

Valve

10 cm

Fig. 5.13: Erythrocyte deformation with osmotic pressure



Oncotic pressure, colloid osmotic pressure

Fig. 5.14: Erythrocyte osmotic fragility test

Fig. 5.15: Membrane potential

