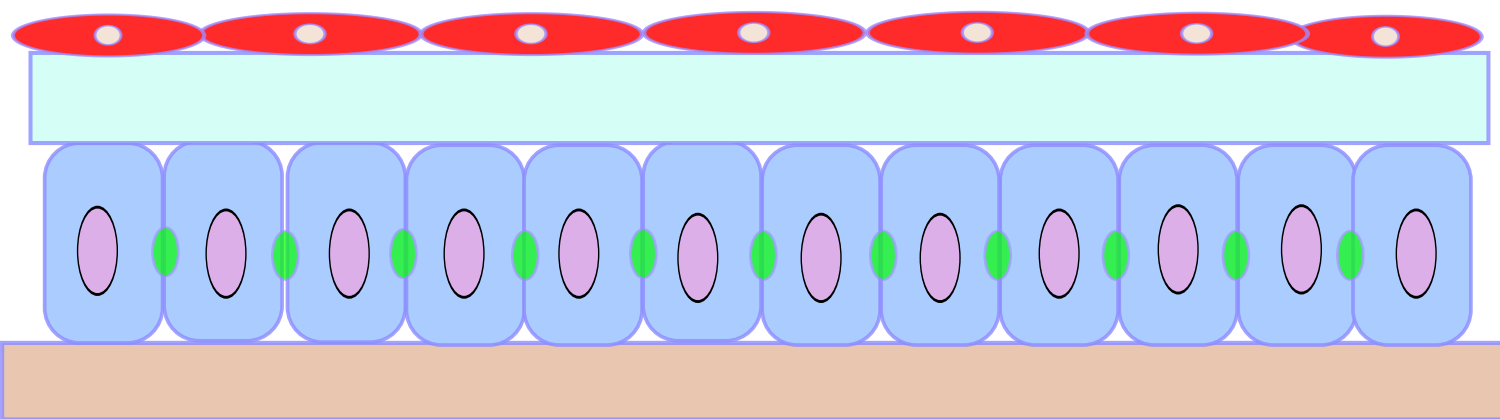
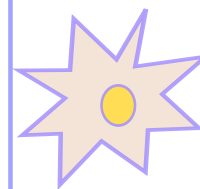


**3D-HLK model**



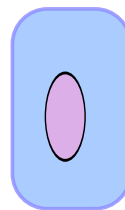
**3D-HL model**



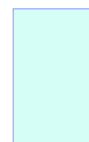
Kupffer cells [K]



Liver sinusoidal endothelial cells [L]



Hepatocytes [H]



Polyelectrolyte multi-layer



Collagen gel