Stefanie Seneff

Title:
> Sulfate and the Glycocalyx: How exclusion zone water drives the body’s electrical system.

Abstract:
> As a kosmotrope, sulfate gels water. The human organism has developed a sophisticated regulatory mechanism for constantly renewing sulfate supplies to the glycocalyx. Sulfate plays a crucial role in maintaining exclusion zone water in the glycocalyx of the circulatory system and of the tissues. This not only facilitates red blood cell transit through capillaries, but also supplies protons to the mitochondria and the lysosomes in the endothelial wall lining the blood vessels and in the tissues. Electrical signals produced by the flowing blood control the continual cycle of building up and breaking down the sulfated glycosaminoglycans in the glycocalyx. Environmental pollutants, particularly glyphosate, the active ingredient in the pervasive herbicide Roundup, disrupt this system, and this is the driver behind many chronic inflammatory diseases.