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Title:

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