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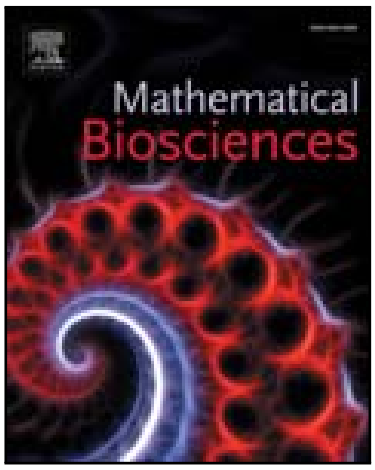

Electro-Kinetically Driven Peristaltic Transport Of Viscoelastic Physiological Fluids Through A Finite Length Capillary: Mathematical Modelling

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Highlights:

- A mathematical model is formulated to study the blood flow through capillary altered by electroosmosis.
- Blood flow may be controlled by applying external electric field.
- Blood flow rate enhances with electric effects and also with viscoelastic nature of blood.
- Pressure difference elevates with more electric filed.
- Stream lines are less trapped in electrokinetic transport in comparison to pressure driven flow.

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