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Title: High Cell Viability Microfluidic Electroporation in a Curved Channel

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## Highlights

1. Hydrodynamics strategy of Dean vortex was utilized to isolate the cells from electrode enhance the cell viability.
2. An optimized flow rate for cell electroporation was obtained.
3. The device realized successful electroporation on several cell types with high viability and high transfection rate.
4. The high-throughput reaching 2.2 ml/min and continuous electroporation were achieved.

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