

Abstract Submitted  
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**Sorting of Sperm by Morphology** JAMES KOH, MARCOS MARCOS<sup>1</sup>, Nanyang Technological University — Many studies have proven that the percentage of morphologically normal sperm is a significant factor in determining the success of assisted reproduction. The velocity of sperm in a microchannel with shear flow subjected to an external field will be explored theoretically. The difference in response between morphologically normal and abnormal sperm will be computed from a statistical approach, to study the feasibility and effectiveness of sorting by an external field to remove abnormal sperm.

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