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Fully automated cellular-resolution vertebrate screening platform with parallel animal processing

Featuring work from the group of Professor S. Takeuchi in Kanagawa, Academy of Science & Technology, and the Institute of Industrial Science at the University of Tokyo, Japan.

Title: Single-vesicle estimation of ATP-binding cassette transporters in microfluidic channels

A fluorescence-based microfluidic method to analyze the substrate transport of ATP-binding cassette (ABC) transporters, which are associated with drug resistance in tumor cells. The method is well suited to the estimation of substrate transport at single transporter level and the rapid drug screening of ABC transporters. Image courtesy of Akiko Sato at the Institute of Industrial Science, the University of Tokyo.

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