



Featuring work from the research laboratory of Professor Keisuke Goda, Graduate School of Science.

Is AI essential? Examining the need for deep learning in image-activated sorting of *Saccharomyces cerevisiae*

Widely used methods for cell image classification from traditional image analysis, classical machine learning, and deep learning are pitted against each other in the context of image-activated, flow cytometric cell sorting. This study investigates what complexity brings to the table at the cost of speed for microscopy-based sorting of budding yeast mutants to gauge the value of employing artificial intelligence to this and similar causes.

### As featured in:



See Mika Hayashi, Akihiro Isozaki, Yoshikazu Ohya, Keisuke Goda *et al.*, *Lab Chip*, 2023, **23**, 4232.  
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