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## Measuring mitophagy via FACS with mtKeima reporter

Louise Uoselis<sup>1</sup>

<sup>1</sup>WEHI



Grace Khuu

**ABSTRACT** 

Preparation of samples for measuring mitophagy levels using mtKeima reporter by FACS

## OPEN ACCESS



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protocols.io

https://protocols.io/view/mea suring-mitophagy-via-facswith-mtkeima-reportercybnxsme

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**Protocol status:** Working We use this protocol and it's working

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## Day 1

1 Seed cells in a 24 well plate, aiming for a confluency of ~80-90% at the time of treatment. Seed additional wells of cells not expressing any fluorescent proteins, cells expressing only mtKeima, and cells expressing only YFP-Parkin (to be used as gating controls).

## Day 2

2h 3m

Feed all cells with standard growth media for 501:00:00 prior to treatment

1h

- Replace media in each well with media containing the drug you are treating with.

  NOTE: Do not change the media or treat the additional wells of cells to be used for gating control.

1h

- 5 At the conclusion of the treatment timepoint, harvest the cells using the following procedure:
- **5.1** Aspirate media from all wells
- Add  $\perp$  150  $\mu$ L of trypsin to each well, and incubate cells at 37 deg C for  $\bigcirc$  00:01:30

1m 30s

5.4	Place plates onto ice, and harvest each sample into a separate microfuge tube on ice by
	resuspending each sample with Δ 500 μL of ice cold standard growth media

6 Centrifuge all samples at 1000x rcf for 00:01:30 at 4 deg C

1m 30s

- 7 Carefully aspirate the supernatant from all samples