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Live-cell imaging; Calcium imaging with Fura-2

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

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Abstract

This protocol describes a method to perform calcium imaging with Fura-2 (live-cell imaging)

1 Cells are washed with HBSS (Cat No. 14025092, ThermofisherScientific)

2 Cells are loaded with 5uM of Fura 2-AM (F1221, ThermofisherScientific) in HBSS.

Note

Fura 2-AM: 340/380 ratiometric measurement. Upon binding calcium, Fura-2 exhibits 340 nm and does 380 nm in the rest of the condition.

3 CCD protocol is set up by selecting a501 nm wheel (both 340 nm and 380 nm wavelength are excited b 501 nm).