

Automated Determination of Intracellular Calcium



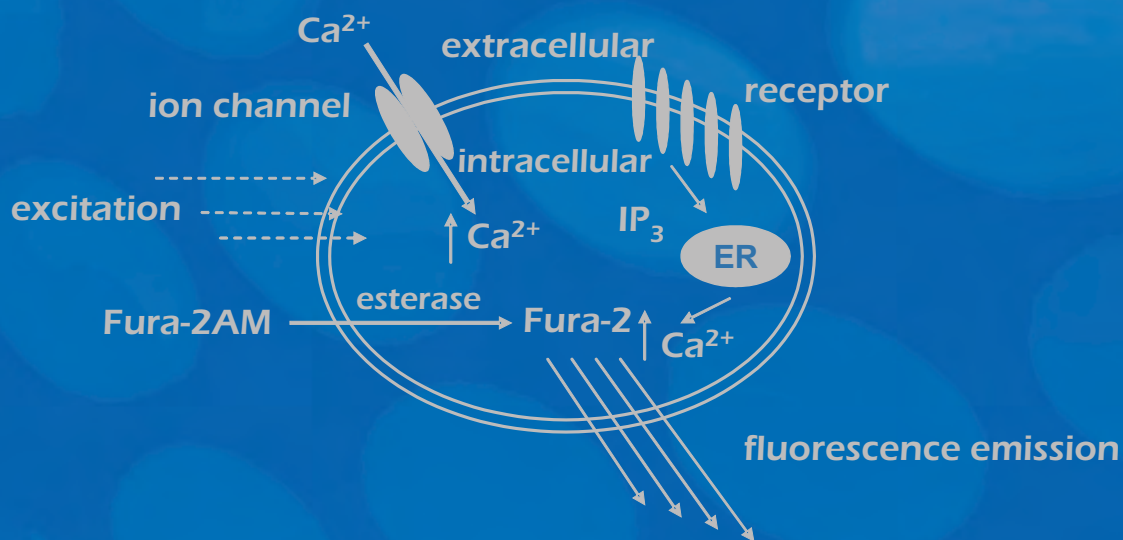
- **F**ura-2 based assay for HT-Drug-Screening
- **R**obot supported measurement of 96 and 384 microplates
- **A**utomated processes e.g. sample preparation
- **F**luorescence measurement independent from dye concentration and color intensity
- **R**apid delivery of analytical data via secure internet connections



Our formula for success

Test Principle

The cells are being loaded with the fluorescence indicator Fura-2 AM. Cellspecific esterase cut the ester bond and activate the indicator to bind free cytosolic Ca^{2+} .



As Fura-2 is a dual excitation indicator (Ex 340nm and 380nm; Em 510nm) the ratio of emission signals can be used for the determination of the $[\text{Ca}^{2+}]$ -concentration.

If you are interested in this application please contact the specialists at amplius. Additional information is also available at www.amplius.net.



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