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~~(1) In vitro study and cell culture~~

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Steffen Schmitt (DKFZ)

MTT assay : Cell Viability Cytotoxicity -
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~~Assays of cell viability and cytotoxicity~~
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Detect cell viability with a one-color
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choices for one-color fluorescence
viability assays, depending on your
experimental needs. For assays where you
need to distinguish live cells from dead

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cells after a fixation step, we recommend the LIVE/DEAD® Fixable Dead Cell Stains. Only requiring a single fluorescence channel, the LIVE/DEAD Fixable Dead Cell Stains enable discrimination of live and dead cells based on membrane permeability and amine-reactive ...

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possessing cell defenses such as epoxide
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glutamyl cycle enzymes for synthesis and degradation of GSH (7), and GSH-S-transferases (8).

Fluorescence-based viability assay for studies of reactive ...

This report describes the development of a high-sensitivity, high-throughput viability

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assay based on (a) the carboxyfluorescein derivative 2'-7'-biscarboxyethyl-5(6)-carboxyfluorescein (BCECF) as a vital dye, (b) instrumentation capable of processing multiple small (less than 100 cells) samples, and (c) a 96-well unidirectional vacuum filtration plate.

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Fluorescence-based viability assay for
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A simple fluorescence-based high throughput method is developed to test the effects of stress and antifungal agents on viability of filamentous fungus *Magnaporthe oryzae*. This resazurin fluorescence assay can detect inhibitory

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effects comparable to those obtained using the growth inhibition assay with added advantages of simplicity, time and cost effectiveness.

Simple fluorescence-based high
throughput cell viability ...

Cell viability assays can be based on

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colorimetric, fluorometric, and bioluminescent detection techniques.

There is a broad range of in vitro cell viability assays, and there are several decisions to make when selecting the appropriate assays for your needs. Dye exclusion assays

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CytoSMART | Cell viability assays: why, what and how

These fluorescence-based Invitrogen LIVE/DEAD assays can be used to examine animal cells, bacteria, yeast, and fungi. Specific LIVE/DEAD assays can be used for flow cytometry, microscopy, or microplate formats. Fluorescent dyes used

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in the viability assays range from blue to near-IR emission.

LIVE/DEAD Cell Viability Assays | Thermo Fisher Scientific ...

In this work, an aggregation-induced emission molecule, TPE-2BA, which can differentiate dead and living bacteria and

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serve as a highly fluorescent and photostable probe for long-term viability assay. TPE-2BA is a cell-impermeable DNA stain that binds to the groove of double-stranded DNA.

Highly Fluorescent and Photostable Probe for Long-Term ...

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Microscopy is still the current gold standard and is in need of updating to an automated format. The aim of the present study was to investigate a panel of fluorescence/luminescence dyes for their applicability as viability markers in drug sensitivity assays for *Schistosoma mansoni* schistosomula.

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Fluorescence/luminescence-based markers
for the assessment ...

Use. Recommended in cases of extended viability studies or when using a high cell density in microplate assays.

Recommended for quick viability determination in microplate assays (10

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minute incubation) Measurement.

Fluorescent assay for detecting metabolic activity of mammalian cells, bacteria, plant and fungi.

Microplate Assays for Cell Viability |
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These fluorescence-based Invitrogen

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LIVE/DEAD assays can be used to examine animal cells, bacteria, yeast, and fungi. Specific LIVE/DEAD assays can be used for flow cytometry, microscopy, or microplate formats. Fluorescent dyes used in the viability assays range from blue to near-IR emission.

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LIVE/DEAD Cell Viability Assays | Thermo Fisher Scientific ...

The SYTO ® 9/PI assay itself has been extensively compared to the above-mentioned viability tests [17, 19, 21, 26, 36] and showed comparative results to the solution based CFU assay as well as to other microscopy based endpoint viability

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protocols including the CTC assay. The added advantage of our assay is the ability to monitor the viability of adherent bacteria in real-time.

Fluorescence-based in situ assay to probe the viability ...

Abstract A simple luminescence-based

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assay for screening the viability of mammalian cells is described, based on the monitoring of cell respiration by means of a phosphorescent water-soluble oxygen probe that responds to changes in the concentration of dissolved oxygen by changing its emission intensity and lifetime.

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Screening Assays Using ...

For example, based on the cell detachment assay, a single-channel integrated microfluidic chip was proposed to improve the accuracy of cell viability assessment by calculating the adhesion strength of

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cells, which is more accurate than that evaluated using the cell counting assay 4.

A mitochondria-specific fluorescent probe for rapidly ...

The fluorescence-based, quantitative deadenylase assay described here is based on end-point measurement and suitable for

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96- and 384-well microplate formats. To show the usefulness of the assay, we screened a small chemical compound library and identified several inhibitors of the Caf1/CNOT7 enzyme.

A fluorescence-based assay suitable for quantitative ...

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Resazurin used as a fluorescent assay for cell viability - Resazurin does not fluoresce when exposed to green light
Resazurin as a fluorescent assay for cell viability - Resorufin fluoresces when exposed to green light

[Resazurin - Wikipedia](#)

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Simple fluorescence-based high throughput cell viability assay for filamentous fungi. Chadha S(1), Kale SP(1). Author information: (1)Nuclear Agriculture and Biotechnology Division, Bhabha Atomic Research Centre, Mumbai, India.

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Simple fluorescence-based high throughput cell viability ...

The second approach used to interrogate the sensitivity of this fluorescence-based assay for detecting schistosomula viability was to replicate conditions where varying percentages of live and dead schistosomula would be found in the same

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sample (i.e. in vitro drug assays, where the drug tested is less than 100% efficient in killing).

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