# VITRA

### Abstract

### Introduction

In cellular imaging assays, the measure (or measures) used to characterize the assays is far inversed from the signal registrated by the camera. Different algorithm will produce different assay measures on the same image. This is especially access for redistribution assays where the total intensity may not change and the assay reask may depend more on the algorithm than on the raw image.

In high throughput dag screening it is common to available the quality of alsays by a additional parameter that depends on the dynamic range we vasibility of the a additional parameter that depends on the dynamic range we vasibility caused by popular. For call-based assays, a-Mactor above 0.5 is considered good. This type of measures proved to be very useful couples and compare variability caused by assay biology and by instrumentation (e.g., plenting). Call assays based on assay and the data deviation above 0.5 is considered good. This happed measure proved assays and the state of the sta

In addition to induction gree wandatile, cellular imaging assays may lead of top may be comparationally very compact. It may contain operations that low the induction of aniantify on the same set of a same set of the same set of a same set of a same set of the same se

The victor is less succeptible to submittion antificies caused by computation than 2, where a submittion of the submittion of the submittion of the submittion of the doceners and the submittion of the doceners of the submittion of the submittion

### Variability in cellular imaging assays

# Pathological concert of workship in concert o

 Study quality measure as a function of magnification, size, and algorithm

# **#P12024 - Quality Measures for Imaging-based Cellular Assays** Ilya Ravkin

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