

# MULTIFLOW<sup>®</sup> DNA DAMAGE KIT

## p53, $\gamma$ H2AX, PHOSPHO-HISTONE H3, CLEAVED PARP

Multiple endpoints. One step.

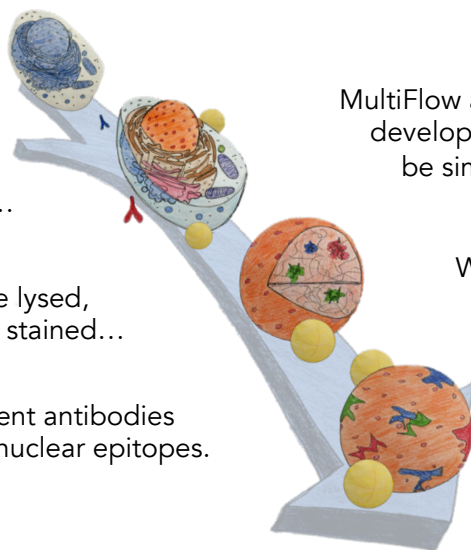
### The Method

In just one step:

reagents are added  
to cells...

outer membranes are lysed,  
nuclei are stained...

and fluorescent antibodies  
bind to nuclear epitopes.



MultiFlow add-and-read kits were  
developed from the ground up to  
be simple and efficient.

When microtiter plates are used to  
collect these multiplexed data, the  
amount of test compound necessary  
for analysis is dramatically reduced.

At this point nuclei are ready  
for flow cytometric analysis.

### Endpoints

- Genotoxic stress via p53
- Double strand DNA breaks via  $\gamma$ H2AX
- Mitotic cells via phospho-histone H3
- Apoptosis via cleaved PARP
- Cell density and cell proliferation
- Cytotoxicity

### Benefits

- High Information Content
- Multiplexed Assay format
- Simple and efficient
- Fast, flow cytometric analysis
- Scalable – compatible with microtiter plates and robotic liquid handlers