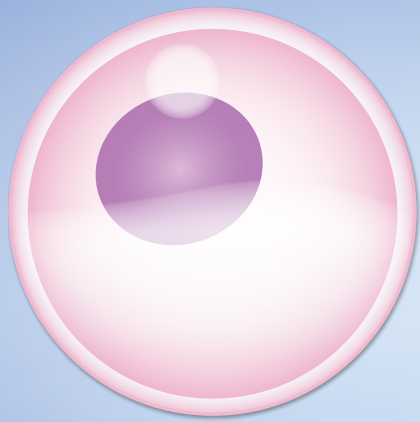
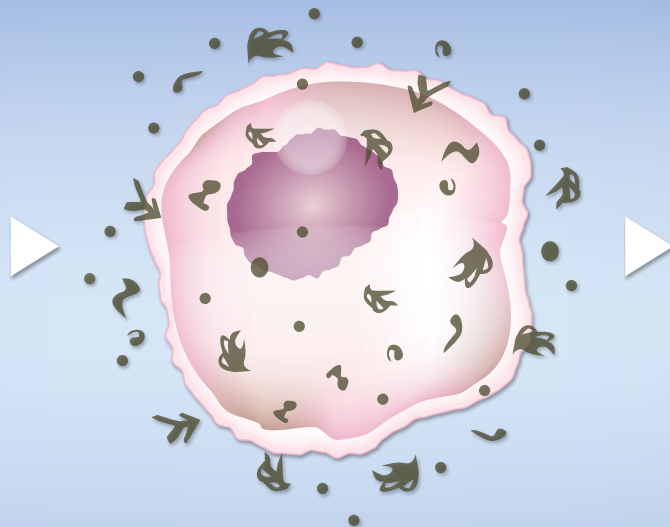


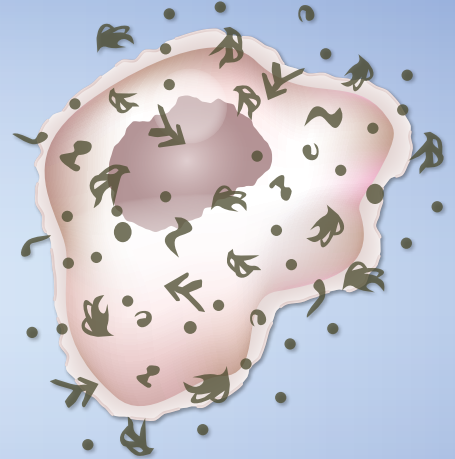
# EVALUATING OXIDATIVE STRESS BY FLOW CYTOMETRY



**NORMAL CELL**



**CELL ATTACKED BY  
FREE RADICALS**



**CELL WITH  
OXIDATIVE STRESS**

## UPSTREAM & DOWNSTREAM EFFECTS OF OXIDATIVE STRESS

PRO- AND  
ANTIOXIDANT  
DETECTION

REDOX  
ENZYMES

HYPOXIA

LIPID  
PEROXIDATION

PROGRAMMED  
CELL DEATH

HEAT SHOCK  
PROTEINS

DNA DAMAGE  
& REPAIR

FREE RADICAL  
DETECTION

## FLOW CYTOMETRY AND THE ROLE IT PLAYS IN EVALUATING OXIDATIVE STRESS ON NORMAL CELLS

Flow Cytometry is a powerful technique with a wide variety of applications throughout research & development. Specifically, flow cytometric assays can be used to analyze multiple parameters on an individual cell simultaneously, which allows for detection of many different cell processes such as oxidative stress. Specifically, flow cytometric assays can be used to simultaneously analyze multiple parameters on an individual cell, allowing for detection of many different cell processes, including oxidative stress. ROS molecules impact various aspects of cell function and can cause irreparable tissue damage. Flow Cytometry can be used to detect oxidative stress by assessing Free Radicals, Lipid Peroxidation, Apoptosis & Autophagy, Hypoxia, Heat Shock proteins, and other effects of oxidative stress in live cells.

For more information on how these assays can be utilized in your study,  
contact us at [www.flowmetric.com](http://www.flowmetric.com)