

# Cell based assays (bioenergetics)

<b>ASSAY NAME</b>	
<b>MMP flow</b>	
Assay description	Flow cytometry analysis of mitochondrial membrane potential; cell-based assay
Application	mitochondrial dysfunction mitochondrial toxicity
Biomatrix	whole blood or PBMNCs
Number of replicates	2
Controls	3
Time	24h
Logistics	collection tubes: Streck Cytocheck BST
	volume requirements: 5mL
	storage: RT (20-25 <sup>0</sup> C)
	transportation: within 72h
<b>ASSAY NAME</b>	
<b>Oxygen consumption rate (OCR) and glycolysis assay</b>	
Assays description	Real-time kinetic analysis of extracellular oxygen consumption rates (OCR), as a measure of cellular respiration and mitochondrial function in living cells including PBMNCs and other primary cells. Can be combined with real-time kinetic analysis of extracellular acidification (glycolysis assay)
Application	mitochondrial dysfunction mitochondrial toxicity
Method of detection	fluorescence
Number of replicates	2
Controls	3
Analytical material	blood or live cells
Time	48h
Logistics	collection tubes: Streck Cytocheck BST
	volume requerments: 5mL
	storage: RT (20-25 <sup>0</sup> C)
	transportation: within 72h