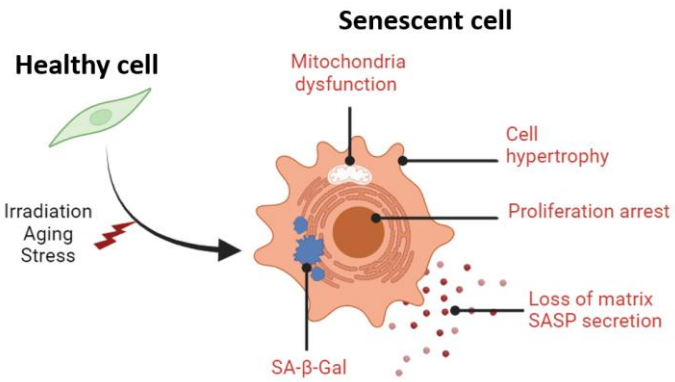
In vitro Senescence Assay

NEPHRIX Biosolutions

Our senescence assay provides a robust platform for evaluating cellular aging and senescence-related pathways. Utilizing advanced biomarkers, such as SA-β-gal activity, gene expression, and cell respiration, this assay offers precise characterization of senescent cells responses. Ideal for drug discovery, toxicity studies, and aging research, it enables high-throughput and customizable analyses to meet diverse research and development needs.

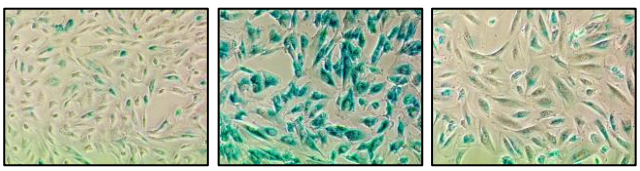


Assay features

- Primary human epithelial and fibroblast cells
- Different senescence induction mode (X-ray, passages…)
- Comprehensive multi-parameters analysis (β-Gal, Gene expression, Secretome, Mitochondrial activity)
- Validated with mTor inhibitor : Rapamycin

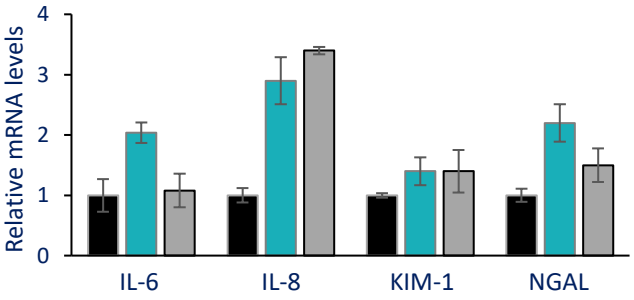
Assay readouts

β-Galactosidase staining

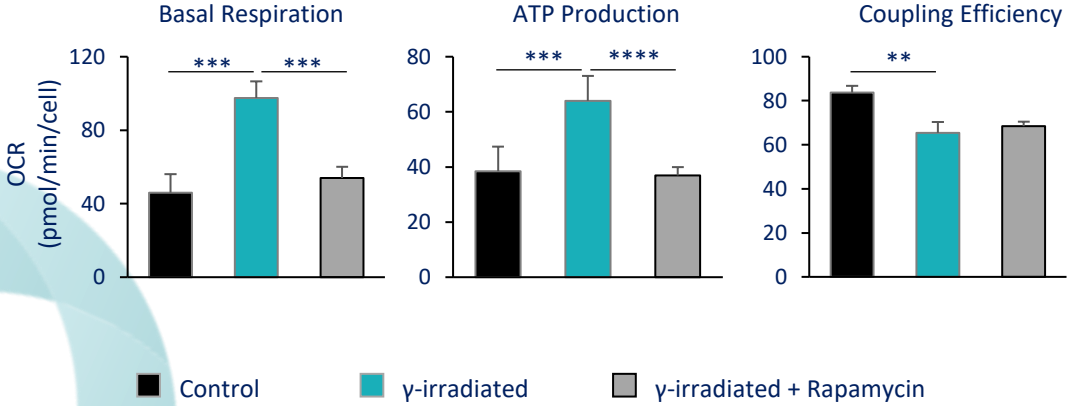


Control | γ-irradiated | γ-irradiated + Rapamycin

Gene expression analysis



Mitochondrial activity assessment



contact@nephrix-biosolutions.com

www.nephrix-biosolutions.com