



FOR IMMEDIATE RELEASE

Mitrix Announces MitoClock – New Genetic Age Test Shows “Potential Years Remaining” For Your Mitochondria

- *Mitochondria, the powerhouses of the cell, slowly degenerate over the years, and this is widely understood to be a root cause of diseases like Alzheimer’s, Parkinson’s, frailty, heart disease, immune senescence, and old age itself*
- *MitoClock is an experimental test of the genetic integrity of mitochondrial DNA (mtDNA) to determine the “approximate age score” for a patient’s mitochondria*
- *Uses mitochondria collected from spit and urine samples, analyzed at the leading mitochondrial genetics lab in the world*
- *Also integrates blood metabolite measurements from partner firm iollo.com*

Palo Alto, CA – March 22, 2023 – Mitrix Bio today announced MitoClock, an experimental new biological aging clock based on deep genetic analysis of mitochondrial DNA. The test collects samples of cells from cheek swab and urine, which are sent for genetic sequencing at a leading mitochondrial genetics lab. This mitochondrial DNA analysis is combined with certain blood metabolite scores collected by another test from iollo.com. The resulting score which gives the approximate “potential years remaining” on the mitochondria in the patient’s body.

According to Mitrix Bio CEO Tom Benson: “Our theory of ‘The Mitochondrial Cycle of the Body’ proposes that mitochondrial DNA age or degenerate at different speeds in different tissues based on stress and other physiological factors; to maintain our long lifespans, the human body has banks of young, undamaged mitochondria which it distributes to these tissues via extracellular vesicles and stem cells. With MitoClock, we sample mitochondria from known locations of the body and analyze mitochondrial DNA integrity, giving us an age score, which correlates very well to calendar age.” Benson continues: “MitoClock shows how many years your mitochondria potentially have left... like a mechanic estimating how many thousands of miles a car has remaining before the engine needs to be rebuilt.”

Use in mitochondrial therapy

Mitrix Bio is developing a process to grow young mitochondria in a bioreactor and transfuse them into the body, in order to regenerate tissues and organs. The MitoClock technology is a spin-off of the Mitrix development process, developed internally to give scientists an accurate way to measure “before” and “after” scores of mitochondrial age. Benson says: “There are dozens of aging clocks based on blood chemistry, nuclear DNA methylation, and telomeres, but we couldn’t find any based on mitochondria. So we made our own.”



MitoClock

From Mitrix Bio

Partnered with iollo.com

MitoClock also incorporates data from iollo, the first-ever blood metabolomics testing company (www.iollo.com). The iollo test measures 500+ biomarkers and provides several key blood metabolite levels that add accuracy to the mitochondrial tests. Iollo is another spin-off from the world-renowned Omics lab of Stanford professor Dr. Michael Snyder (who is also Mitrix Chief Science Advisor). iollo's metabolites are measured with a simple, painless "drop of blood" type collector sent by mail to their facility.

Benson says: "By combining iollo's extraordinary range of blood metabolites with our proprietary mitochondrial DNA genetic analysis, we're able to measure the age of the body in an entirely new way. We're just lucky that iollo launched this new technology just at the time that we needed it."

For experimental use only

The MitoClock test is available in limited quantities because each test requires large amounts of laboratory time and data analysis. It is available only for experimental purposes to aging researchers or academic institutions. MitoClock is not FDA-approved, and not intended for human use or determination of medical treatment. Each test cost approximately \$20,000 US.

At this time, there is no estimate when MitoClock will be available for consumers.

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