

Quantify Aging Precisely

Understanding Health Through Epigenetics



Exclusive License of the Epigenetic Aging Clock from Dr. Steve Horvath, professor at UCLA

DNAge® Epigenetic Aging Clock

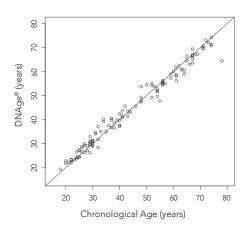
Highlights:

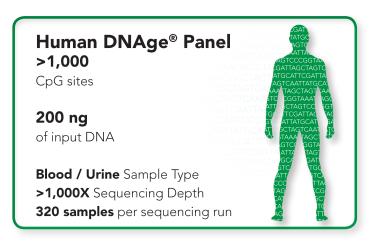
- Precisely quantify biological age at the molecular level for both humans and mice.
- Low sample input.
- High-throughput: sequence >300 samples per run.

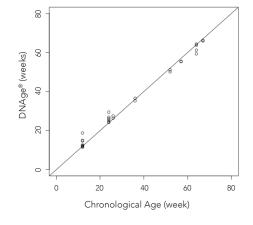
What is the Epigenetic Aging Clock?

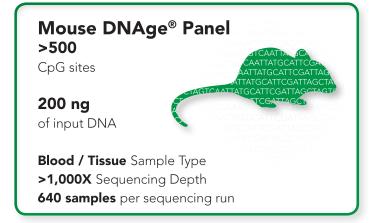
Epigenetic modifications refer to heritable changes that are independent of the primary DNA sequence and play crucial biological roles. DNA methylation is one of the most studied epigenetic modifications, and is recognized as a reliable indicator of biological age and reflects the status of diseases.¹⁻⁵

DNAge® is highly correlated with chronological age:









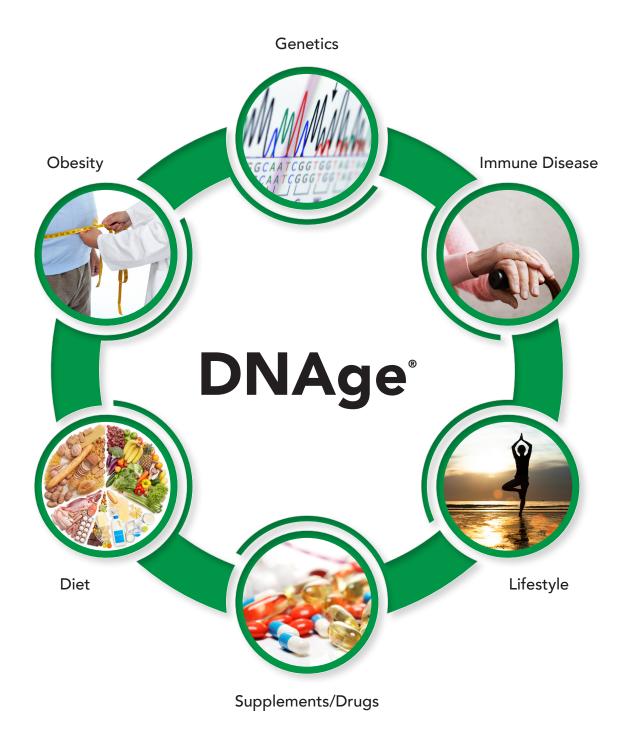
Dotted line is the regression line of DNAage®. Solid line represents a hypothetical perfect match between DNAge® and chronological age.

References:

- 1. Horvath S. DNA methylation age of human tissues and cell types. Genome Biology. 2013;14(10): R115. doi:10.1186/gb-2013-14-10-r115.
- 2. Jones MJ, Goodman SJ, Kobor MS. DNA methylation and healthy human aging. Aging Cell. 2015;14(6):924-932. doi:10.1111/acel.12349.
- 3. Horvath S, Langfelder P, Kwak S, et al. Huntington's disease accelerates epigenetic aging of human brain and disrupts DNA methylation levels. Aging (Albany NY). 2016;8(7):1485-1504. doi:10.18632/aging.101005.
- 4. Horvath S, Garagnani P, Bacalini MG, et al. Accelerated epigenetic aging in Down syndrome. Aging Cell. 2015;14(3):491-495. doi:10.1111/acel.12325.
- 5. Horvath S, Levine AJ. HIV-1 Infection Accelerates Age According to the Epigenetic Clock. The Journal of Infectious Diseases. 2015;212(10):1563-1573. doi:10.1093/infdis/jiv277.

Aging Is Driven By More Than Just Time

The reversible, dynamic nature of DNA methylation modifications (in contrast to genetic changes) makes the DNAge® clock an ideal tool to directly study aging-related diseases and monitor lifestyle interventions.



Simply send us your samples, and we will provide you with an accurate epigenetic age estimate and detailed data report.



The **BEAUTY** of **SCIENCE** is to Make Things **SIMPLE**®

