



**NeuroAge**  
therapeutics

# The NeuroAge Test for Brain Aging

**Christin Glorioso, MD PhD**

Co-founder and CEO  
[christin@neuroagetx.com](mailto:christin@neuroagetx.com)

# Expert Team with >55 yrs of experience



**CEO- Dr. Christin  
Glorioso, MD PhD**



**AI Engineer  
Sam Lee, MS**



**Scientist  
Francesco Neri, PhD**



**VP of Engineering  
Yuriy Golikov, MS**



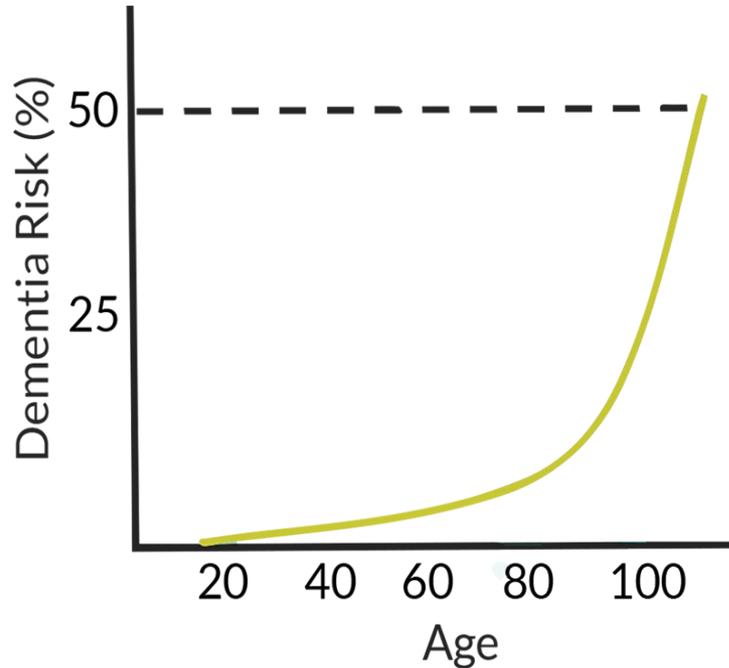
**VP of Partnerships  
Persiana Cota**



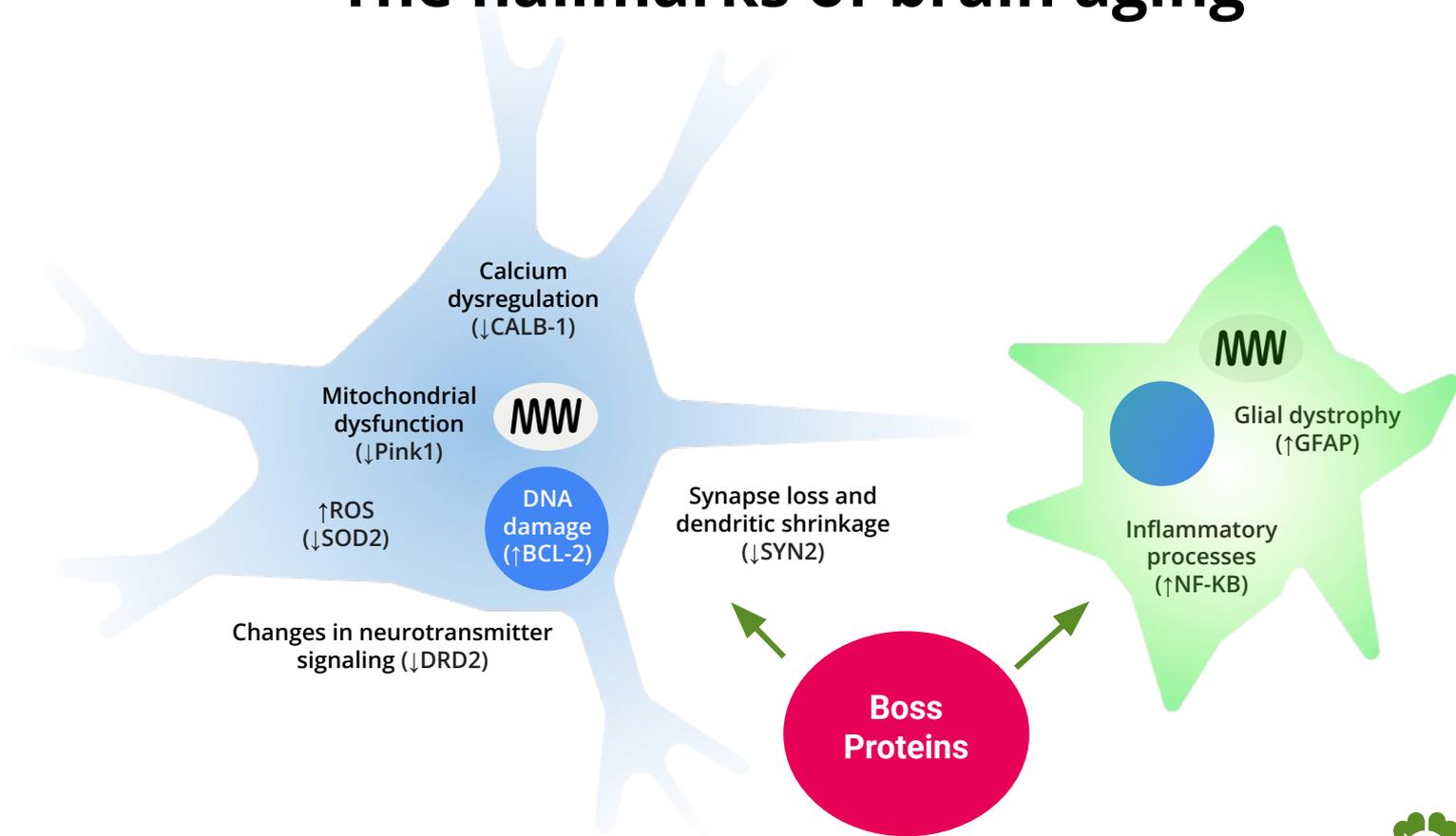
**>55M** people have an  
**age-related**  
**neurodegenerative**  
**condition, including**  
**Alzheimer's and**  
**Parkinson's dementia**



# Aging is the biggest risk factor for Alzheimer's Disease

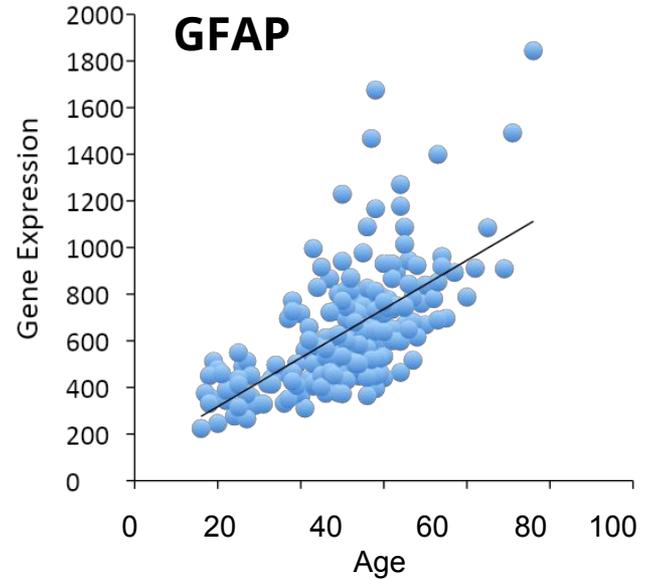
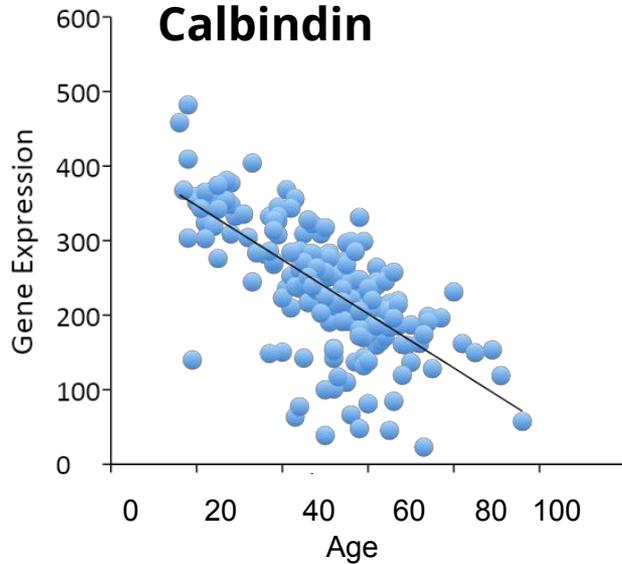


# The hallmarks of brain aging

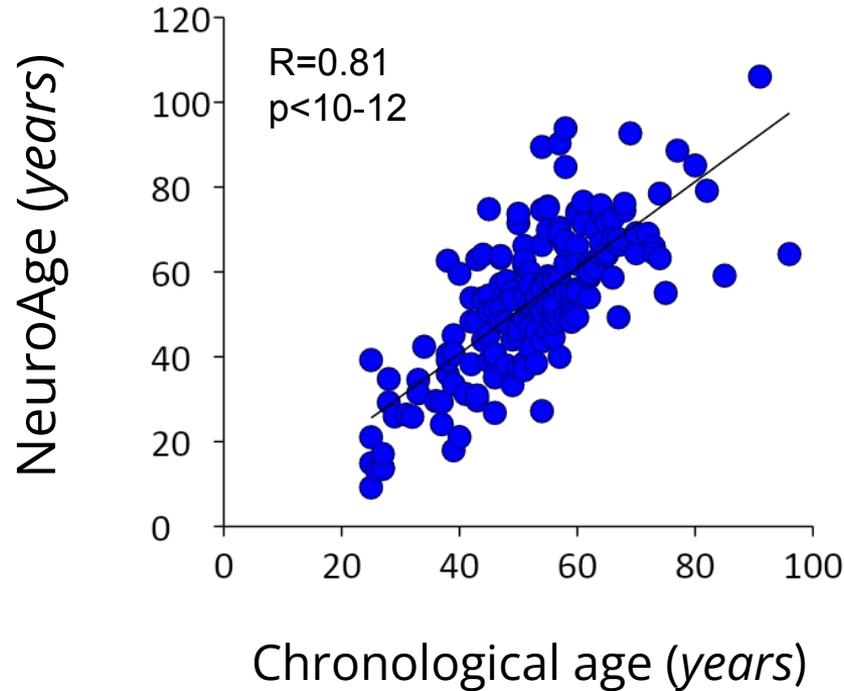


Modified from Glorioso & Sibille, 2011

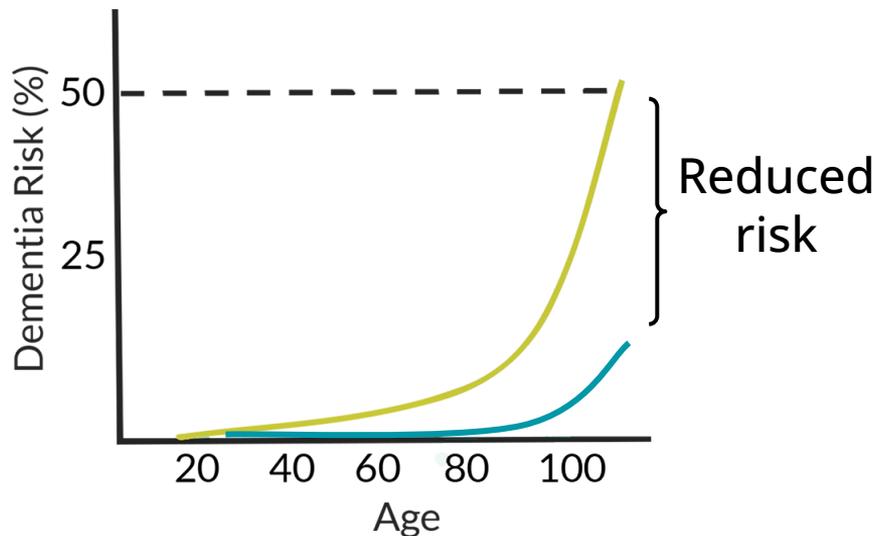
# Age-related changes in mRNA levels cause neuronal death, which is a “program” that starts in your 20s



# We can accurately predict brain aging using mRNA levels of genes



# Biological brain aging is the largest dementia risk factor: 5 yrs younger = 6X reduced risk



Research Article

Rate of brain aging and *APOE*  $\epsilon 4$  are synergistic risk factors for Alzheimer's disease

Christin A Glorioso<sup>1,2,\*</sup>, Andreas R Pfenning<sup>3,\*</sup>, Sam S Lee<sup>1,2</sup>, David A Bennett<sup>4</sup>, Etienne L Sibille<sup>5,6</sup>, Manolis Kellis<sup>7,8,†</sup>, Leonard P Guarente<sup>1,2,9,†</sup>



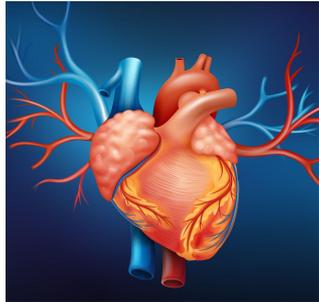
Life Science Alliance



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# We can track risk factors for other diseases, but not neurodegeneration

Modifiable risk factor



Disease



Brain aging



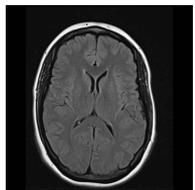
# The NeuroAge Test for Brain Aging

## COMPREHENSIVE DIAGNOSTIC TESTING

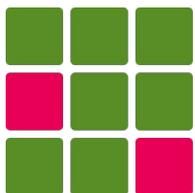


### 1. Blood biomarkers

- RNA
- Genetics
- Epigenetics

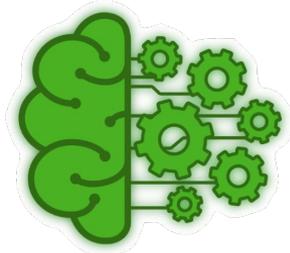


### 2. Brain MRI



### 3. Memory test

## SUPER PREDICTOR (AI)



Already trained on large cohorts, continuously learning

## NEUROAGE RESULTS



**Max**

Chronological age: 55 years

Brain age: 51 years



# The NeuroAge™ Test Customer Value

## NEUROAGE RESULTS AND RISK FACTOR ASSESSMENT



**Max**

Chronological age: 55 years

Brain age: 51 years

Reduction of  
dementia risk

**41%\***

Max's chronological age: 55

Max's brain age: 51

Dementia risk

Age



**Personalized  
lifestyle and health recs**



**FDA approved  
therapeutics drugs  
personalized to Max's  
biomarkers**



YOUR MOVE

# How exercise increases brain volume — and may slow memory decline



By [Gretchen Reynolds](#)

January 24, 2024 at 7:00 a.m. EST



# Signs of Alzheimer's were everywhere. Then his brain improved

By Sandee LaMotte, CNN  
🕒 10 minute read · Updated 6:00 AM EDT, Tue June 18, 2024



# Dean Ornish- reduce AD progression by 18%

Research | [Open access](#) | Published: 07 June 2024

## Effects of intensive lifestyle changes on the progression of mild cognitive impairment or early dementia due to Alzheimer's disease: a randomized, controlled clinical trial

[Dean Ornish](#) , [Catherine Madison](#), [Miia Kivipelto](#), [Colleen Kemp](#), [Charles E. McCulloch](#), [Douglas Galasko](#), [Jon Artz](#), [Dorene Rentz](#), [Jue Lin](#), [Kim Norman](#), [Anne Ornish](#), [Sarah Tranter](#), [Nancy DeLamarter](#), [Noel Wingers](#), [Carra Richling](#), [Rima Kaddurah-Daouk](#), [Rob Knight](#), [Daniel McDonald](#), [Lucas Patel](#), [Eric Verdin](#), [Rudolph E. Tanzi](#) & [Steven E. Arnold](#)

*Alzheimer's Research & Therapy* **16**, Article number: 122 (2024) | [Cite this article](#)

**38k** Accesses | **853** Altmetric | [Metrics](#)

# Beautiful client dashboard

Go to: <https://demo.neuroagetx.com/>

**NeuroAge**  
therapeutics

**Hello, Christin** 🧡  
Here are your latest results.

**CHRISTIN GLORIOSO**  
christin@neuroagetx.com

**NeuroGames** Exit Demo Max Optimal

- SUBSCRIPTION
- Overview
- The age of Your brain

PRODUCTS

- Genetic Resilience
- Blood Biomarkers
- Brain MRI

GAMES

- NeuroGames Results
- NeuroGames
- Surveys

### The age of your brain

100% COMPLETE

Your biological brain age is **6.6 years younger** than your chronological age based on your results.

Recommendations  
We've put together a few recommendations to help you improve your brain function >

**NeuroGames Results**

NeuroGames Results	23.8
Blood Biomarkers	39.2
Brain MRI	39.0

**37** <sup>08</sup> years

Genetic Resilience **20.0%**

### NeuroGames Results

25 **+19%**

Word Pairs

332ms **-15%**

Reaction Time

0

Number Span

0

Names And Faces

20 **0%**

Focus

### Genetic Resilience

Your resilience **20%**

Average resilience **50%**

### Blood Biomarkers

Your age **39.2**

### Brain MRI

Your age **39**

### NeuroGames

All games Overall result

- Reaction Time
- Word Pairs
- Number Span
- Names And Faces
- Focus

CLINIC ADMIN: Christin Glorioso

Explore Christin Gloriosos's (42F) scan from 2024-03-08

Spaces Ventricles **Brain Age** Whole Brain Amygdala Brainstem Caudate Nucleus

Summary:

42 Age

lower higher

39 BrainAge

BrainAge Over Time

3D View | Load Scan Image

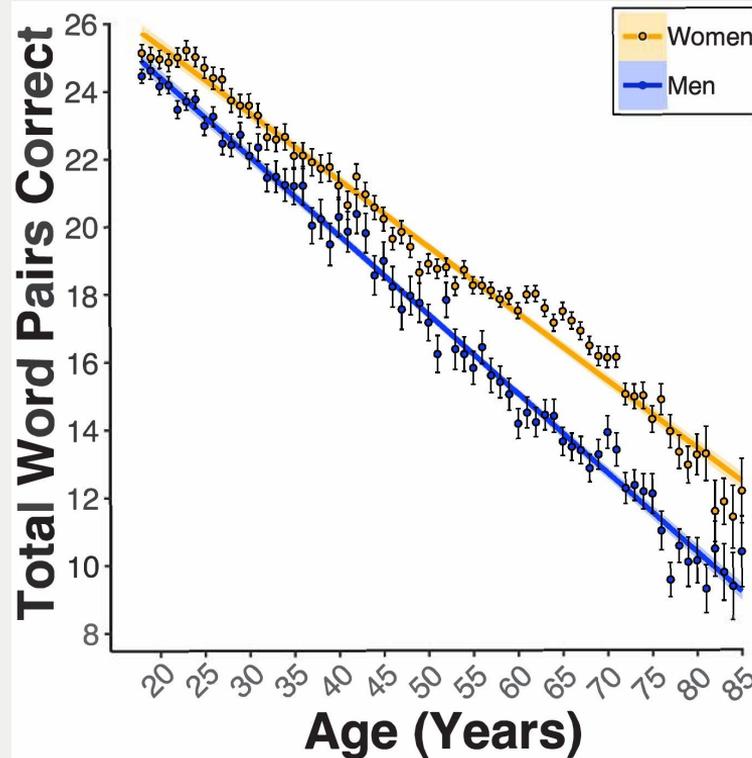
Head Outline

Draw / Label

+ More

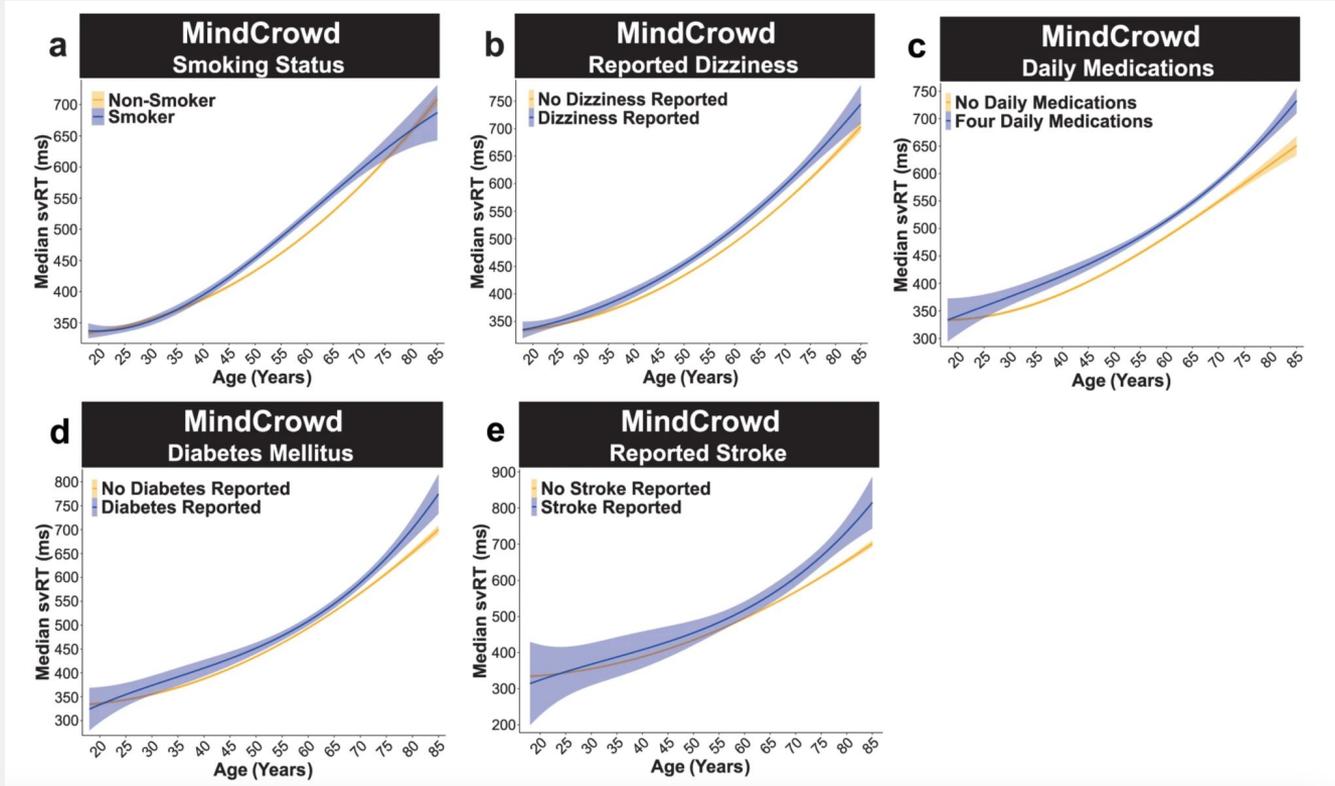
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# The NeuroAge Test for Brain Aging- Word Pairs



<https://elifesciences.org/articles/46179> ~59,000 participants

# Reaction Time



# The Patient Journey

## 1. Blood Biomarkers

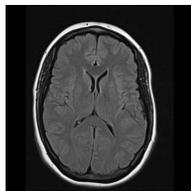
We schedule at home blood draws



Unique blood biomarkers & whole genome genetics

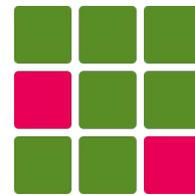
## 2. Brain MRI

We schedule at a convenient location



## 3. Cognitive Testing

Online on our website



# Competitive Landscape

Company	Brain MRI	Blood Biomarkers	Cognitive testing	Genetics	Personalized prevention recs
NeuroAge	✓	✓	✓	✓	✓
Prenuvo	✓				
23andMe				✓	
CNS Vital signs			✓		
TruAge		✓			
Traditional Medicine	✓		✓		

# Tiered pricing, yearly subscription or one time

ULTRA ACCURATE, ULTRA PERSONALIZED

## The NeuroAge Test Ultra

**\$3194** Complimentary 30 minute clinician visit

[Purchase](#)

### Features

- All Neurogames**  
Track your memory, reaction speed, and other aspects of cognition that decline with age over time
- One 30 minute virtual visit per year**  
Meet with one of our clinicians to discuss your results
- One NeuroAge blood test per year**  
Read more about this test
- Interpretation of your scores**  
Read more about this test
- Genetic resilience**  
Read more about this test
- Personalized recommendations**  
For a more youthful brain
- Brain MRI**  
With 3D dashboard and preventative screening

We can offer  
**20% off** for our  
clinical partners

## One time purchase

You can buy each component of the NeuroAge Test Ultra separately if you prefer. Your results will be most accurate and personalized if you complete all testing.

<b>NeuroGames</b> Track your memory and cognition over time  Only <b>\$99</b> per year	<b>The NeuroAge Blood Test</b> Track your brain aging using our proprietary RNA-based blood biomarkers  Only <b>\$699</b>	<b>Genetic resilience</b> Test your genetic risk factors for neurodegenerative disorders  Only <b>\$798</b>	<b>Brain MRI</b> Track your brain aging and screen preventatively using brain MRI. No contrast or radiation used.  Only <b>\$1598</b>
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