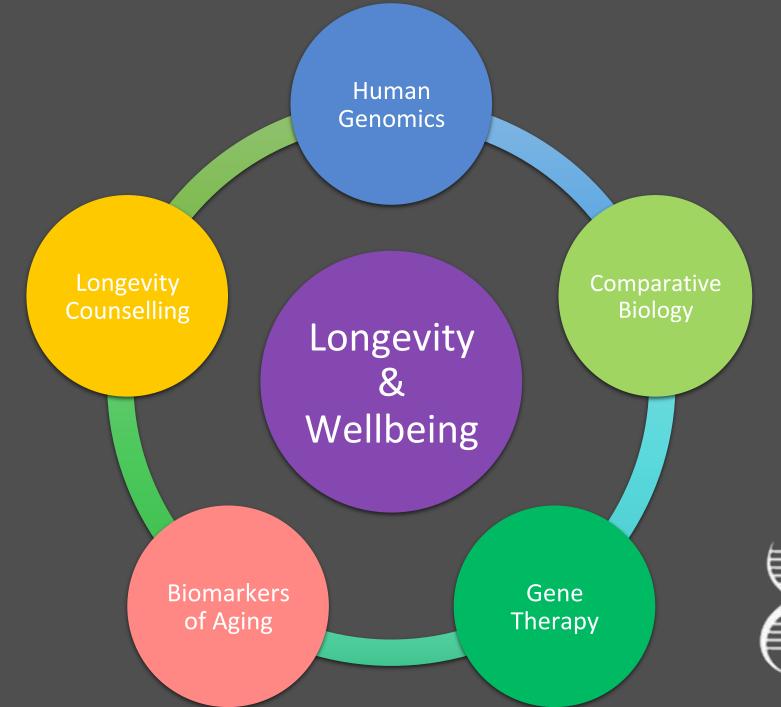


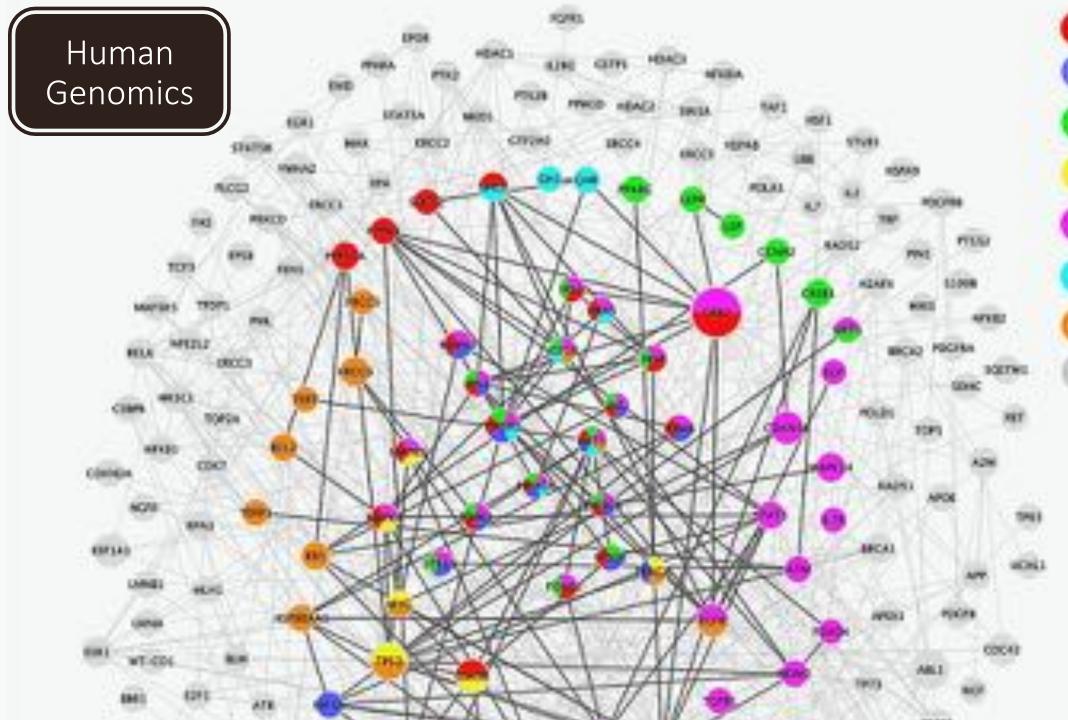
Liz Parrish



Enabling Longevity & Wellbeing

Human Longevity Genomics

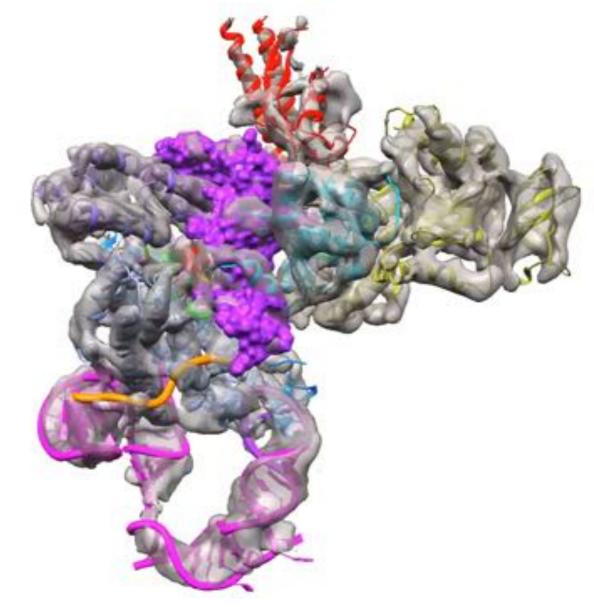
Enabling Longevity & Wellbeing



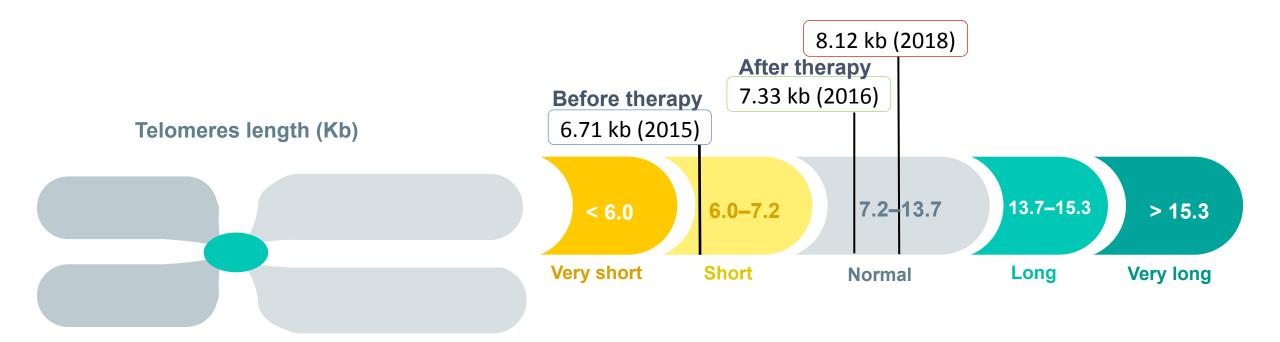
Insulin mTOR AMPK WNT FOXO Longevity Telomere Other

Telomerase

- Repairs telomeres
- Affects mitochondrial health
- Improves genomic stability
- Reduces senescence
- Prevents cancer
- Protects against biological aging



Median Telomere Length Before And After Gene Therapy



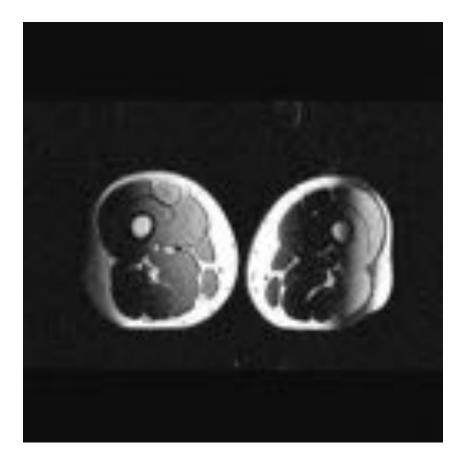


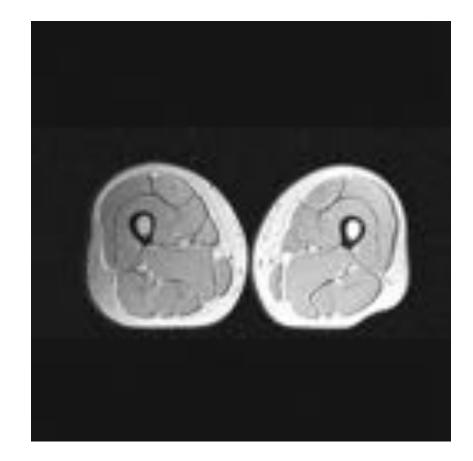
Patient: Elizabeth Parrish Age at treatment: 44

Follistatin

- Repairs muscle stem cell communication
- Improves numbers of myofibers
- Increases muscle mass and quality
- Reduces frailty
- Prevents sarcopenia
- Protects against biological aging

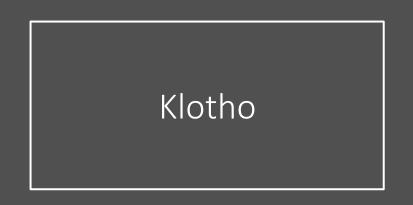




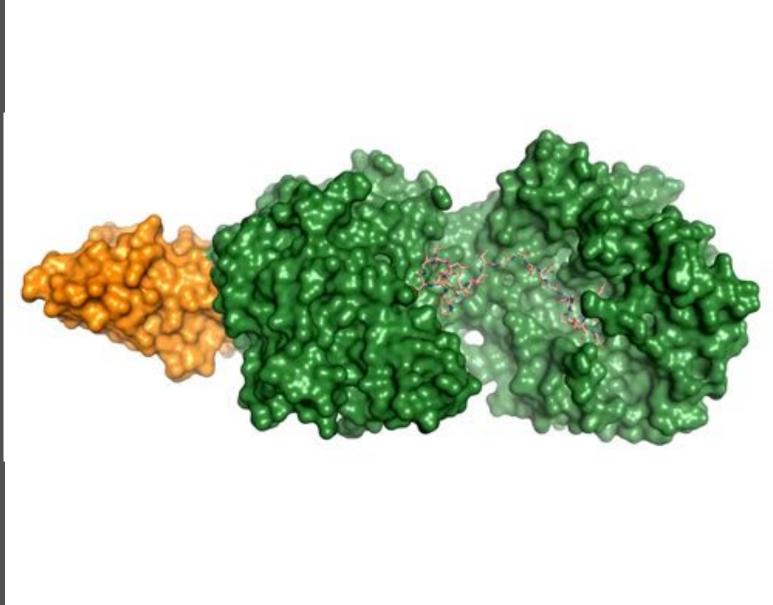


MRI Scans



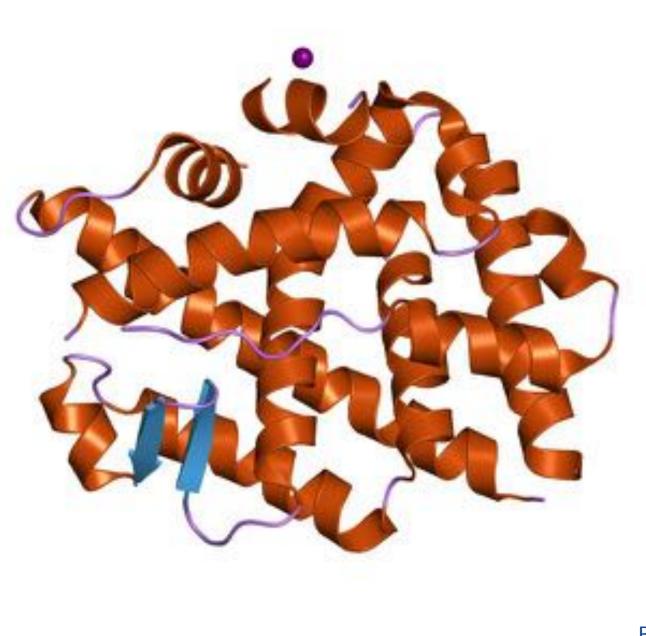


- Improves brain function
- Assists other anti-aging proteins, including FGF21 & FGF23
- Suppresses growth pathways
- Clears damage caused by oxidative stress
- Protects against kidney and cardiovascular disease
- Extends lifespan in mice



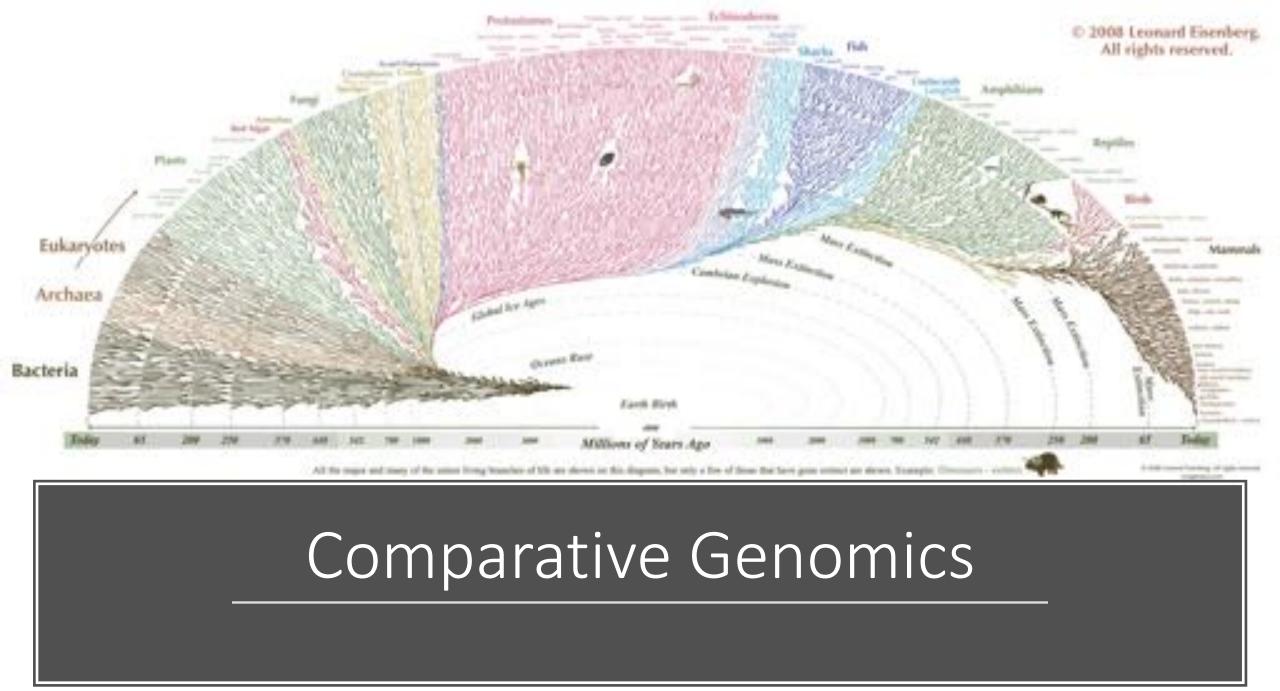
PGC-1α

- Improves mitochondrial quality and quantity
- Reduces white fat
- Increases brown fat and muscles
- Maintains proteostasis in neurons and cardiac cells
- Protects against liver damage
- Extends lifespan in model organisms



Comparative Biology

Enabling Longevity & Wellbeing



Gene Therapy

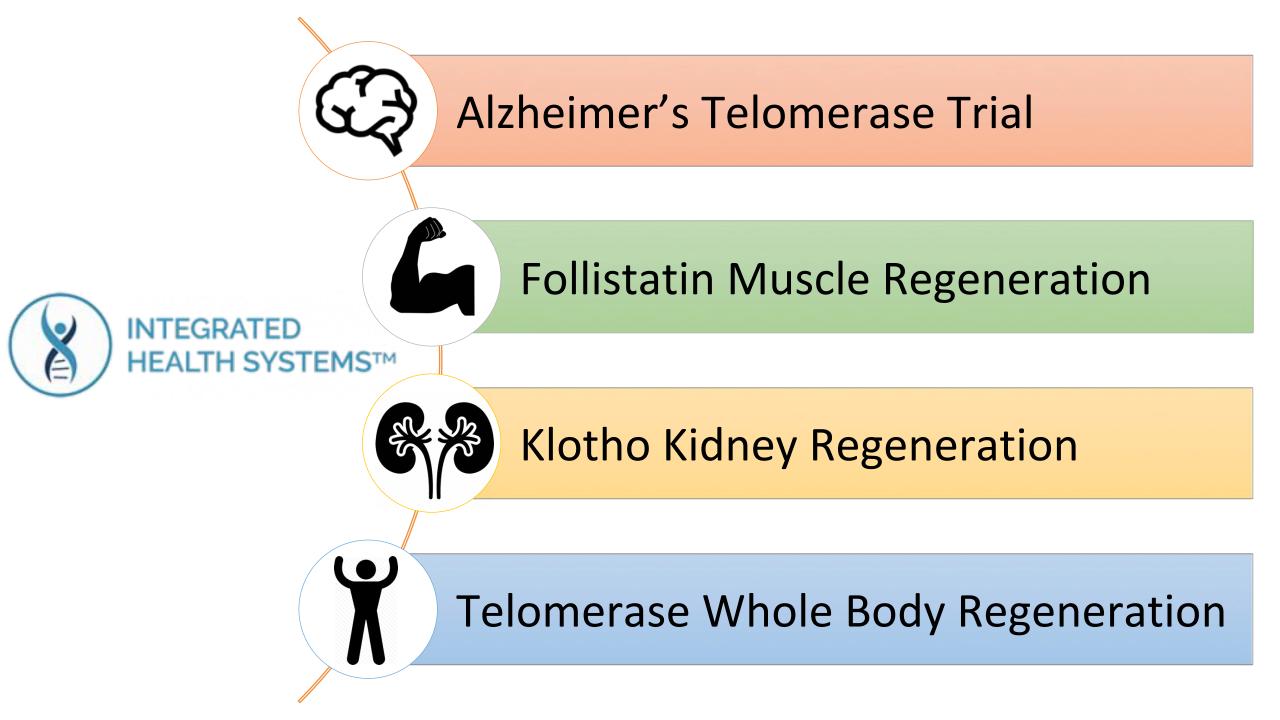
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Gene Therapy Adeno-associated virus

- Used in over 140 clinical trials worldwide
- Targets tissues including heart, liver, lung, pancreas, central nervous system, skeletal muscle, photoreceptor cells, and more
- Treating diseases including Hemophilia, congestive heart failure, arthritis, age-related macular degeneration, Alzheimer's disease, Parkinson's disease, and more











INTEGRATED HEALTH SYSTEMS

Gene Therapy For Everyone

Integrated Health Systems, in partnership with MaxLife Foundation, is a funding a trial to rejuvenate microglial cells using telomerase gene therapy.





BioViva and Rutgers University Join Forces to Create a Vaccine Against Aging BioViva's R&D: Think Bigger, Better, & More Versatile





No genomic integration



Multiple tissue targets



It can be delivered in multiple ways



High tissue uptake, and low dose requirement

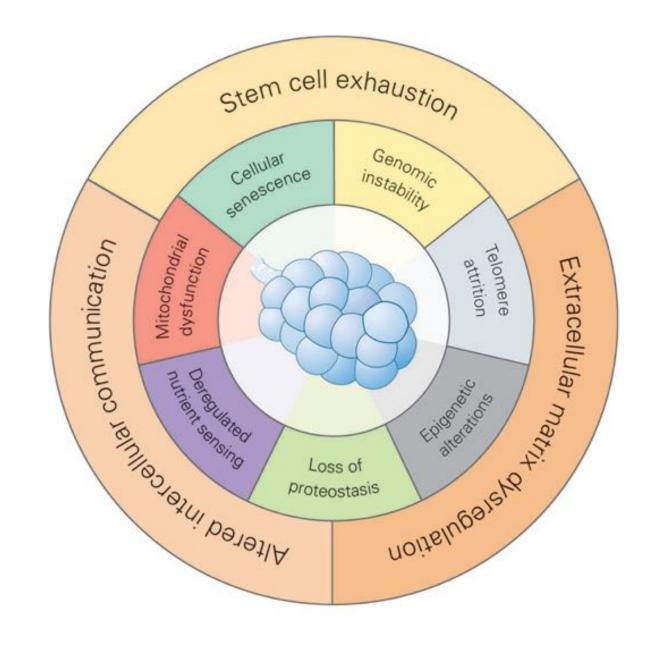


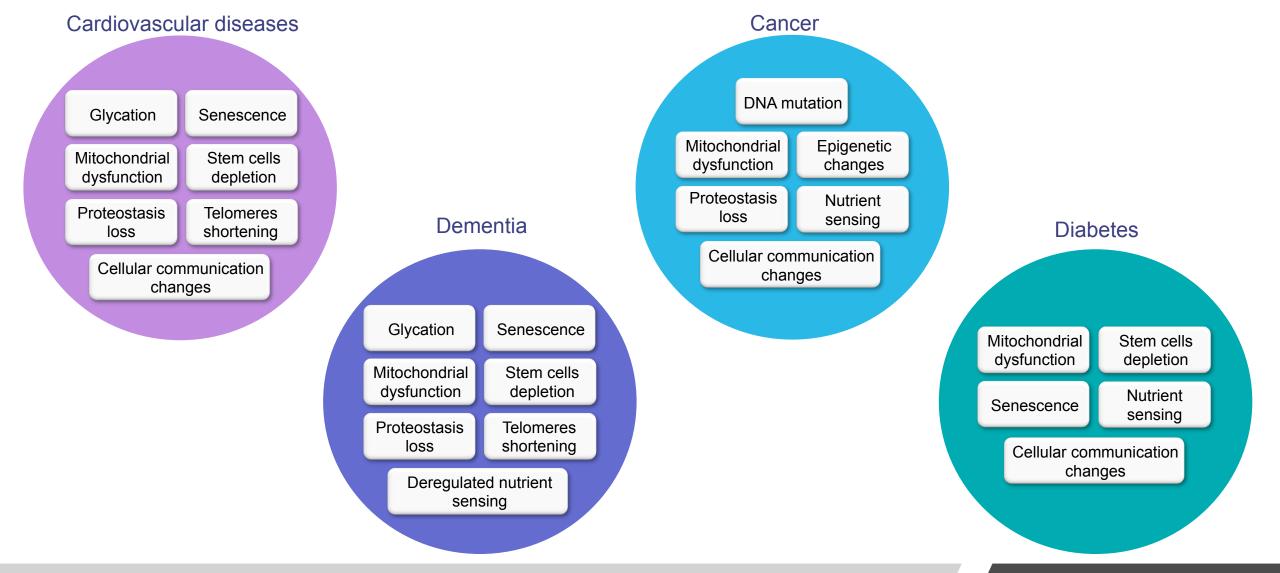
Negligible Immune response

Biomarkers of Aging

Enabling Longevity & Wellbeing

The Hallmarks of Aging



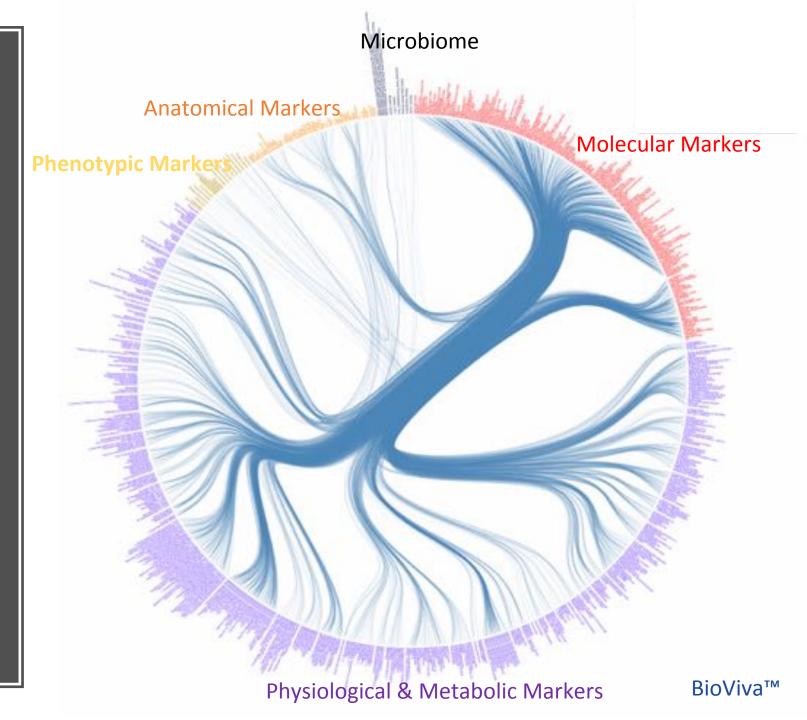


Bioinformatics Platform Connecting -The Hallmarks of Aging, and Diseases

Enabling Longevity

Enabling Longevity & Wellbeing

Bioinformatics Platform





MapMyHealth

- Genetic Health Risks related to +200 diseases

+30 Wellness traits, including
Lactose Intolerance, Deep Sleep
and Diet

- Reactions to +100 medications

myfitgene

MapMyFitness

- DNA-based Fitness test of the elite athlete and fitness enthusiast.
- Assess innate potential to torch fat, build muscle, maintain BMI, eat right and more.
- Identify personal risk factors for injuries, stress, and muscle regeneration

ŚŚŚŚŚ *my* DNAge[™]

MyDNAge

- Precisely measure your biological age at the molecular level

- This The epigenetic clock DNA methylation signature has outperformed other biomarkers in predicting age
- Identify lifestyle interventions to slow down the epigenetic clock



MyFullGenome

- 30x Entire genome and mitochondrial genome sequencing gives you an unparalleled access to your health, your family traits and predisposition

- Discover the source of all genetic diseases, disorders, risks, including rare diseases

- An investment for life: Sequence your genome once and learn more as science progresses

GENOMIC COUNSELLING

Creating Longevity & Wellbeing For All BioViva