

of aging well

Examine the science driving the future of health expectancy

Together, we can increase health expectancy by targeting aging at a cellular level and transform the lives of billions of people globally.

From living longer to living better

The challenge:

Most people spend their last

The opportunity:

Target aging at the cellular level to increase years spent in good health



Life expectancy

Health expectancy

Four key hallmarks of aging with significant potential for nutritional innovation



Cellular senescence A process where cells lose

function but continue to secrete molecules that damage neighboring cells.

Slow cellular senescence: Senolytics like quercetin

Scientific insights to

nourish health expectancy

- and fisetin² resVida® resveratrol
 - as a senomorphic agent

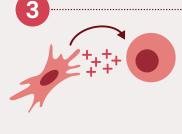


Mitochondrial dysfunction When the 'powerhouse' of the

cell fails to produce enough energy and manage oxidative stress properly.

Enhance mitochondrial function: • Quali®-B, Quali®-C and

- Quali®-E vitamins ALL-Q[®] (Coenzyme Q10),
- zinc, and selenium³



Often referred to as 'inflammaging' this slow,

Chronic inflammation

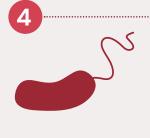
ongoing process can damage tissues and organs.

life's®OMEGA · Antioxidant vitamins

Manage inflammation:

microbiome:

• Polyphenols⁴ resVida® (Resveratrol)



An imbalance in the gut microbiota that triggers chronic,

Gut microbial dysbiosis

low-grade inflammation.

Pre/pro/postbiotics • Humiome® portfolio

Support a healthy gut

- · Human milk oligosaccharides
- (HMOs) • Microbiome-targeting vitamins⁵

The health expectancy opportunity

of consumers associate health expectancy

52%

with nutrition⁶ 3-month

in biological age over a

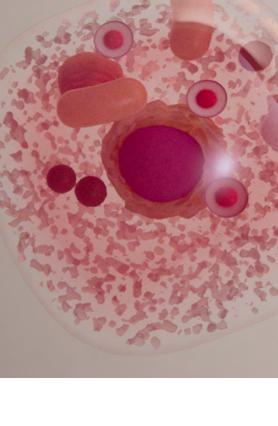
3-year period with

life's®OMEGA60 and Quali®-D supplementation8

reduction

of consumers are concerned about cellular health7

annual growth in healthy aging product launches9



The path forward



Target multiple hallmarks simultaneously

Transform health expectancy with proven dietary supplement solutions

Ready to lead in health expectancy innovation?



Uncover our complete health expectancy whitepaper series and discover how to develop supplements that

help ensure we don't just live longer but better.

Visit: dsm-firmenich.com/healthexpectancy

References

- 3. Wesselink Vera, et al. Clinical Nutrition 38(2): 982-995 (2019) 4. Calder Phillip, et al. Nutrients 12(4): 1181 (2020) 5. Wu Lei, et al. NPJ Biofilms and Microbiomes 8(1): 102 (2022)
- 6. Innova Market Insights. Global consumer health trends (2025) 1. UN. Decade of Healthy Ageing (2021-2030) 2. Zhu Yi, et al. Aging Cell 14(4): 644-658 (2015) 7. DSM Global Health Concerns Study (2025) 8. Bischoff-Ferrari, H.A., et al. Nature Aging, February 3, 2025

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9. Nutrition Insight. Healthy Aging Market Data (2025)