

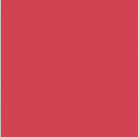
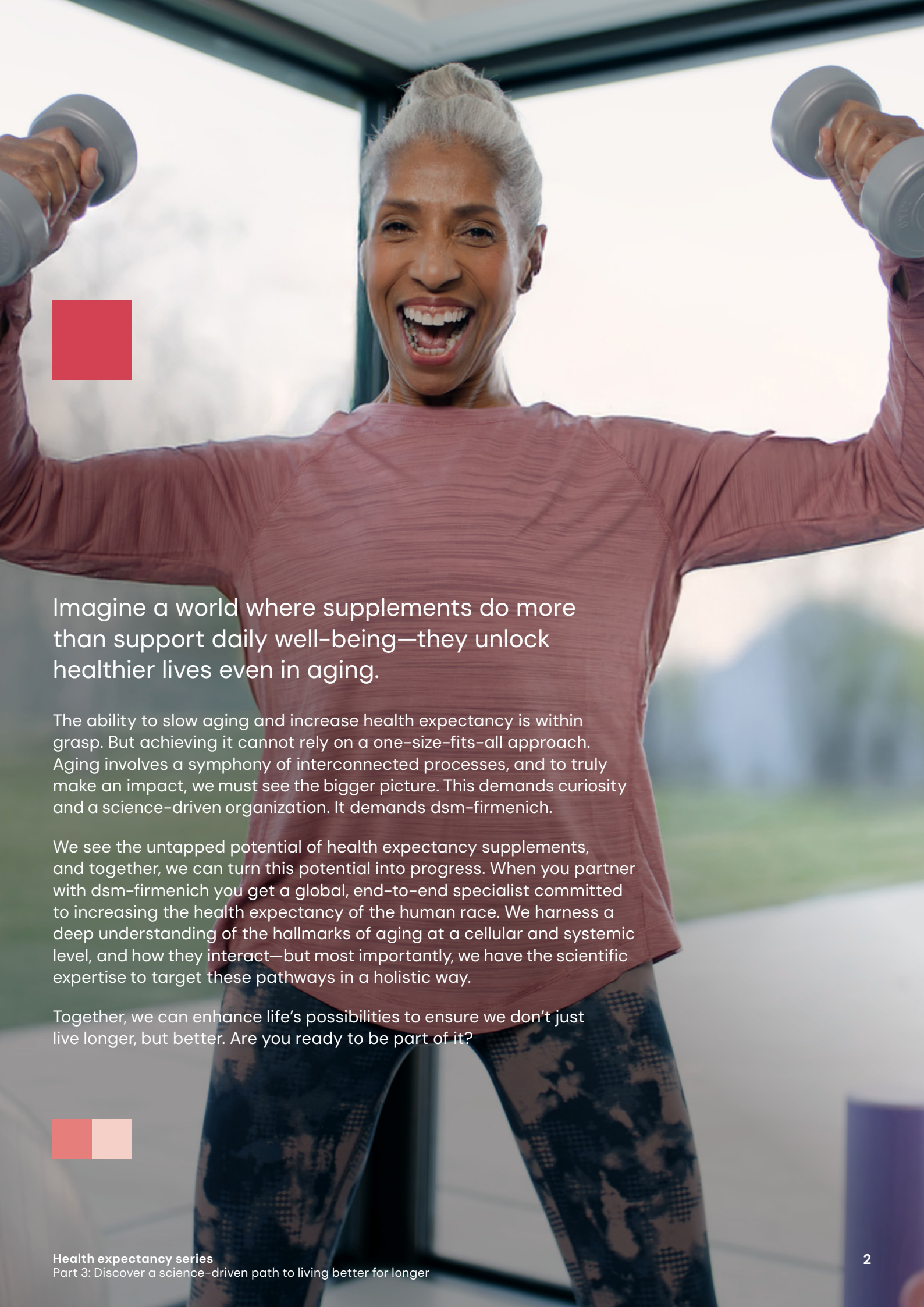


# Health expectancy series

Part 3:  
Discover a science-driven  
path to living better for longer





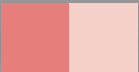


Imagine a world where supplements do more than support daily well-being—they unlock healthier lives even in aging.


The ability to slow aging and increase health expectancy is within grasp. But achieving it cannot rely on a one-size-fits-all approach. Aging involves a symphony of interconnected processes, and to truly make an impact, we must see the bigger picture. This demands curiosity and a science-driven organization. It demands dsm-firmenich.

We see the untapped potential of health expectancy supplements, and together, we can turn this potential into progress. When you partner with dsm-firmenich you get a global, end-to-end specialist committed to increasing the health expectancy of the human race. We harness a deep understanding of the hallmarks of aging at a cellular and systemic level, and how they interact—but most importantly, we have the scientific expertise to target these pathways in a holistic way.

Together, we can enhance life's possibilities to ensure we don't just live longer, but better. Are you ready to be part of it?







**Let's shift the focus  
from life expectancy to  
health expectancy, and  
transform the future for  
billions of people globally.**



**Missed chapters 1 and 2  
in our health expectancy  
whitepaper series?**

**Download them below.**




**Part 1:  
The science of aging well**

[→ Download now](#)



**Part 2:  
Redefine aging with nutrition**

[→ Download now](#)



# We're creating an ecosystem built for success in the health expectancy space

We're ready to help you target the hallmarks of aging and tap into the transformative health expectancy market.

With our high-quality products, customized solutions, and expert services, we not only help individuals age better, but slower. Our approach is deeply rooted in scientific excellence, nutritional expertise, and a commitment to increasing health expectancy. But we want to push the boundaries of what's possible, and the journey ahead is where the real magic happens.



## The path forward—our focus in the health expectancy market



**Advance research:** We will invest in nutritional research and generate clinical evidence to open new doors and inspire formulations that target hallmarks of aging effectively—specifically cellular senescence, mitochondrial dysfunction, chronic inflammation, and gut microbial dysbiosis.



**Expand ingredient portfolio:** We aim to explore emerging ingredients and solutions with high potential in this market—like biotics, senolytics, and hormetins—to unlock novel opportunities.



**Transform delivery:** Health expectancy solutions are only effective if they're used consistently. We will introduce formats that support convenience and improve compliance, making better aging more accessible.

# Our high-quality products

The foundation of our innovation approach is a strong portfolio of evidence-based ingredients proven to deliver age-related health benefits.

	General Healthy Aging	Heart Health	Brain Health	Immune Health	Muscle Health	Vision Health	Skin Health	Oxidative Stress	Gut Health
Quali®-A	✓			✓		✓	✓		✓
Quali®-B	✓	✓	✓	✓		✓	✓		✓
Quali®-C	✓	✓	✓	✓			✓		
Quali®-D	✓	✓	✓	✓	✓		✓		✓
Quali®-E	✓	✓	✓	✓	✓		✓	✓	✓
Meg-3®, life'sDHA®, life's®OMEGA (DHA and EPA)	✓	✓	✓	✓	✓	✓	✓		✓
Quali®-Carotene (β-carotene)	✓		✓	✓		✓	✓	✓	
FloraGLO® (Lutein)	✓		✓			✓	✓		
Optisharp® (Zeaxanthin)	✓					✓			
ResVida® (Resveratrol)	✓	✓					✓	✓	✓
All Q® (CoQ10)	✓	✓				✓	✓		
Redivivo® (Lycopene)	✓	✓		✓			✓		

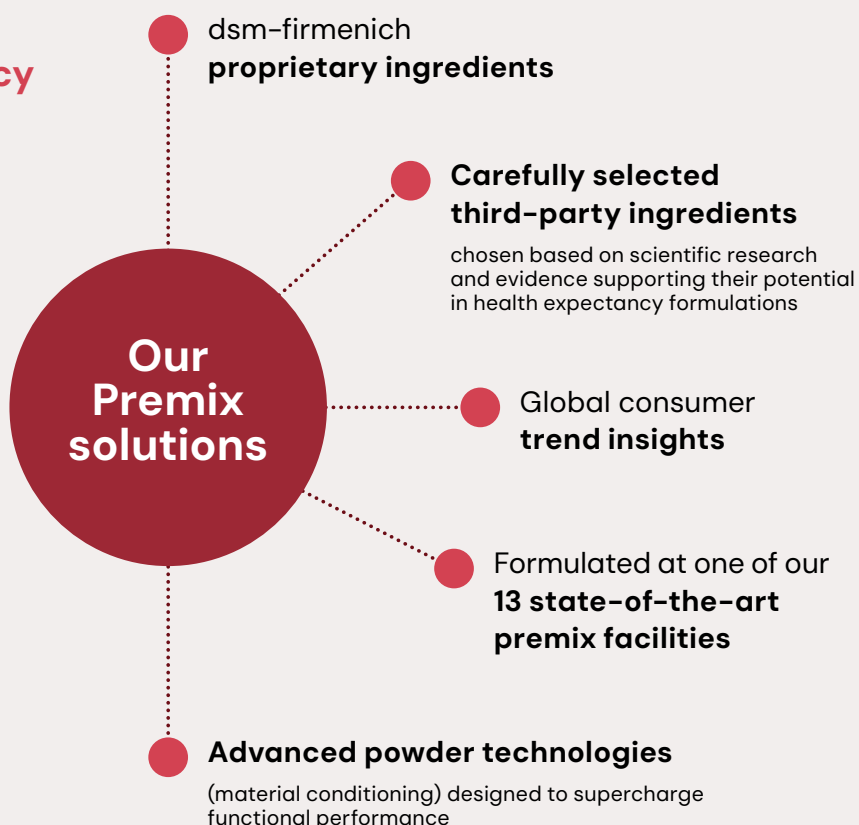
**Table 1.** Our current longevity portfolio for 'aging better'.



# Customized solutions

**Multi-ingredient solutions that address health expectancy concerns in novel formats are key to capturing the attention of today's consumers.**

Premixes bring together select ingredients and flavors into a single uniform custom blend with exceptional functionality. Our Premix solutions are designed to fast-track health expectancy innovation, helping you get to market faster, more efficiently, and with enduring success.



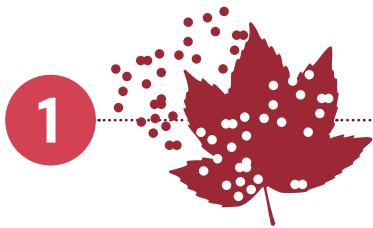
# The way to well is through the cell

Science has increased our life expectancy.  
But not yet our health expectancy.  
**We want to change that.**

We're in the business of finding out how to add life to our years by slowing aging. Our health expectancy strategy is powered by a team of scientists that know it takes more than just delivering an ingredient to create successful solutions—it takes passionate experts, a deep understanding of cellular aging hallmarks, and a relentless commitment to research.

## Our experts are here to make it happen

Better health expectancy starts at a cellular level. With our ingredient solutions and cutting-edge expertise, we can help you target and manage key hallmarks of aging to slow the aging process.



### Cellular senescence

Cellular senescence sees cells lose their key functions—like division—but not die. When these cells accumulate over time, they create a pro-inflammatory environment, which can damage the surrounding tissues and systems. Approaches to remove senescent cells are emerging, including the use of 'senolytic' compounds.

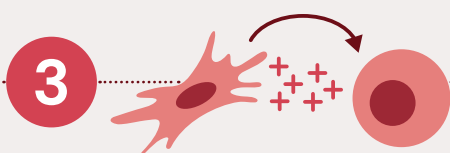
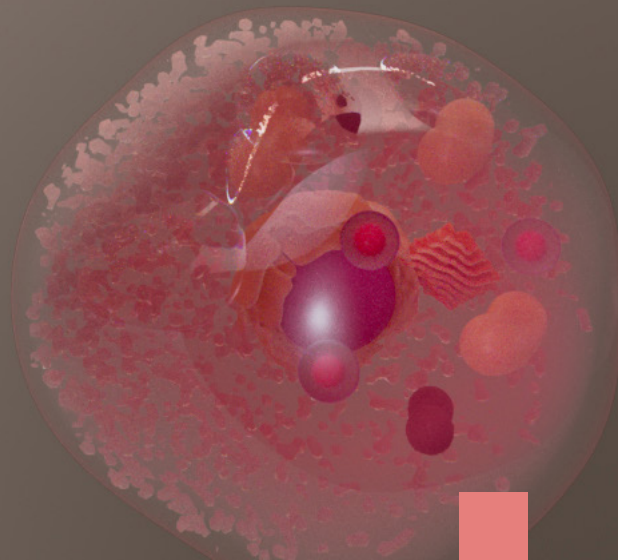


### Mitochondrial dysfunction

Mitochondria—the 'powerhouse' of the cell—produce energy for cellular processes. Supporting mitochondrial function and energy production as we age may enhance health expectancy.







### Chronic inflammation

As we get older, our ability to manage inflammation and stress weakens. Several micronutrients and compounds can be harnessed to help control inflammation for better tissue repair and overall balance.



### Gut microbial dysbiosis

A balanced gut microbiome is strongly linked to immune function, homeostasis in the body, and nutrient absorption. Targeting the gut microbiome is therefore a promising avenue for health expectancy innovation.

## We don't just get the science; we're actively advancing it

In our quest to develop research-tested formulations tailored to win in the health expectancy arena, we are fueling new insights via:

- ✓ **Preclinical models:** We study how well our interventions target key aging hallmarks, assess their effectiveness, and explore ingredient synergies.
- ✓ **Observational studies:** We examine links between dietary habits and healthy aging in targeted groups to inform formulation development.
- ✓ **Human trials:** We test interventions in people, focusing on biological clock markers and health benefits.





## We're not just scientists

We're experts across the entire product development cycle. Our expert services provide support from concept to launch, and beyond.



### Application and technical

Our **50+ formulation and application experts** can help you overcome product development challenges and meet your target audience's evolving needs.



### Insights and marketing

Elevate your product claims and appeal based on our consumer insights to resonate deeper with your target audience.



### Quality and regulatory knowledge

Enjoy peace of mind launching new products that are safe, compliant, and high-quality.



### Delivery format expertise

We can help overcome barriers linked to aging and decreased nutrient intake—such as bioavailability, slower metabolism, and convenience.



### Best-in-class flavor and masking expertise

We have **100+ flavorists, 11 sensory facilities, and 130,000 flavors** to help you create products that deliver exceptional taste and experience.

# Prevent and combat the effects of cellular aging with our 3-step cellular senescence concept

We can help you unlock a complete senotherapeutic mode of action with our ready-to-do premix concepts—reducing the burden of senescent cells to restore health and function.



## 01

### Month 1: **Protect**

Prevent further damage by senescent cells with ResVida®, a powerful senomorphic and antioxidant. Senomorphics modify the functions and characteristics of senescent cells to make them resemble youthful cells or prevent young cells from becoming senescent.

	<b>Ingredient</b>
<b>Hero</b>	<b>ResVida®</b> (Resveratrol)
<b>Supporting</b>	<b>Indena Opextan®</b> (Olea Europea)
<b>Backbone</b>	<b>Vitamin B12</b>
	<b>Vitamin B9</b>
	<b>Vitamin B6</b>
	<b>Vitamin B3</b>



## 02

### Month 2: **Boost**

Strengthen the immune system to recognize and eliminate aged (senescent) cells with ALL Q® (CoQ10 Ubiquinone) and super antioxidant Redivivo® (Lycopene).

- ALL Q® is an essential coenzyme for maintaining cell energy levels.
- Redivivo® is a bioactive form of lycopene, which helps regulate the body's processes responsible for producing inflammatory substances.

	<b>Ingredient</b>
<b>Hero</b>	<b>ALL-Q®</b> (CoQ10 Ubiquinone)
<b>Supporting</b>	<b>Redivivo®</b> (Lycopene)
<b>Backbone</b>	<b>Vitamin C</b>
	<b>Vitamin D3</b>
	<b>Zinc</b>



## 03

### Month 3: **Renew**

Eliminate left-over senescent cells to complete the renewal process with Quercefit®, a natural flavonoid that has the power to neutralize free radicals and remove senescent cells.

	<b>Ingredient</b>
<b>Hero</b>	<b>Quercefit® Indena</b> (Quercetin)
<b>Backbone</b>	<b>Vitamin E</b>





# It's time to increase the health expectancy of the human race.

With dsm-firmenich, you're not just  
creating a supplement—you're building  
a better future for human health.

Let's make health expectancy solutions  
a reality, and transform the lives of billions  
of people globally.

[Connect with an expert](#)

[dsm-firmenich.com/healthexpectancy](https://dsm-firmenich.com/healthexpectancy)

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