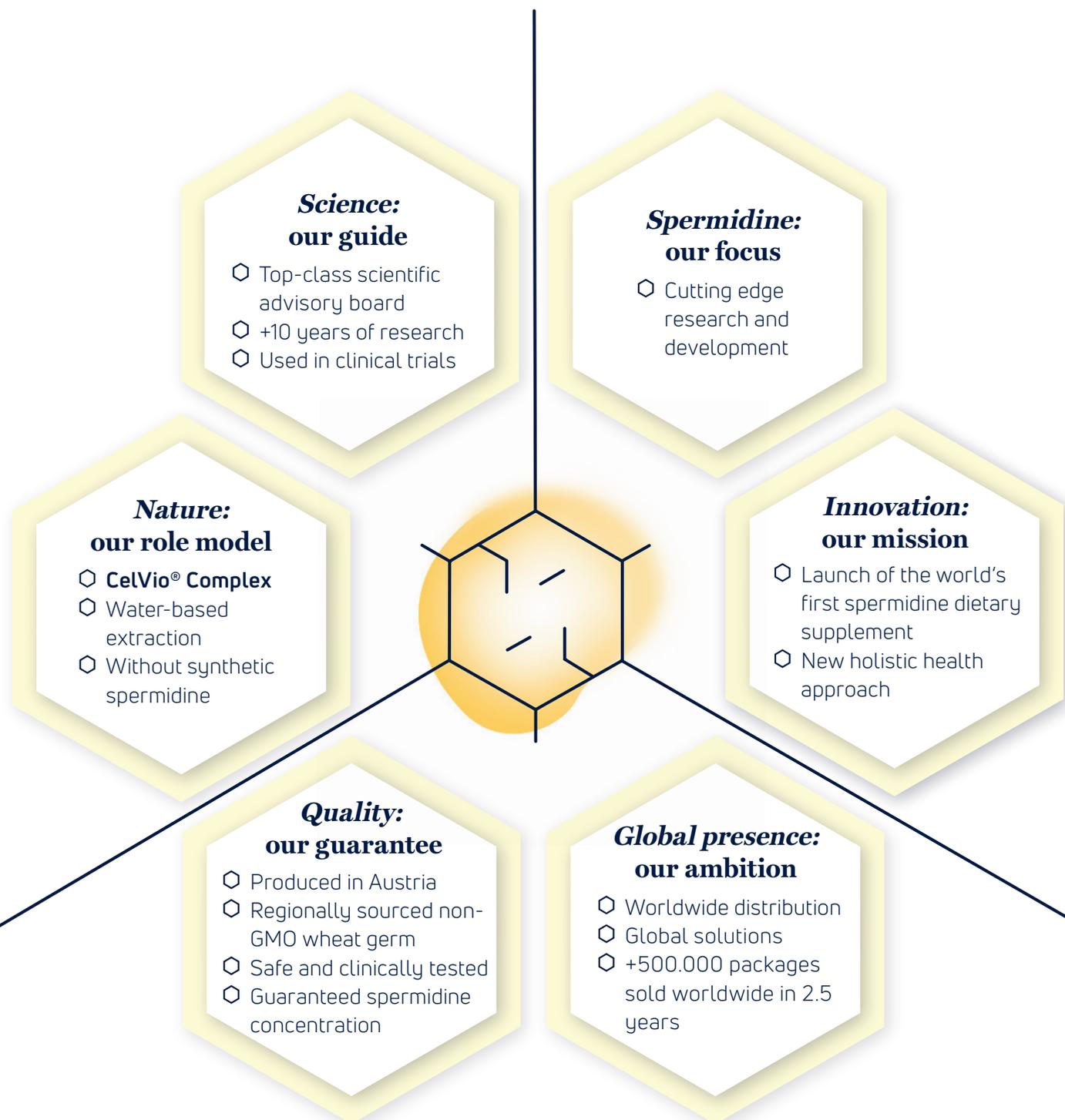


We Are Longevity Labs+

At **Longevity Labs+**, we translate scientific findings into practical solutions in order to meet the challenges of everyday life. Our vision is to help our customers live an active, healthy life. Our research and development **focuses on the body's cells** and on how we can provide optimal support with our innovative products and solutions.



Longevity Labs⁺

For Your Cell Renewal.



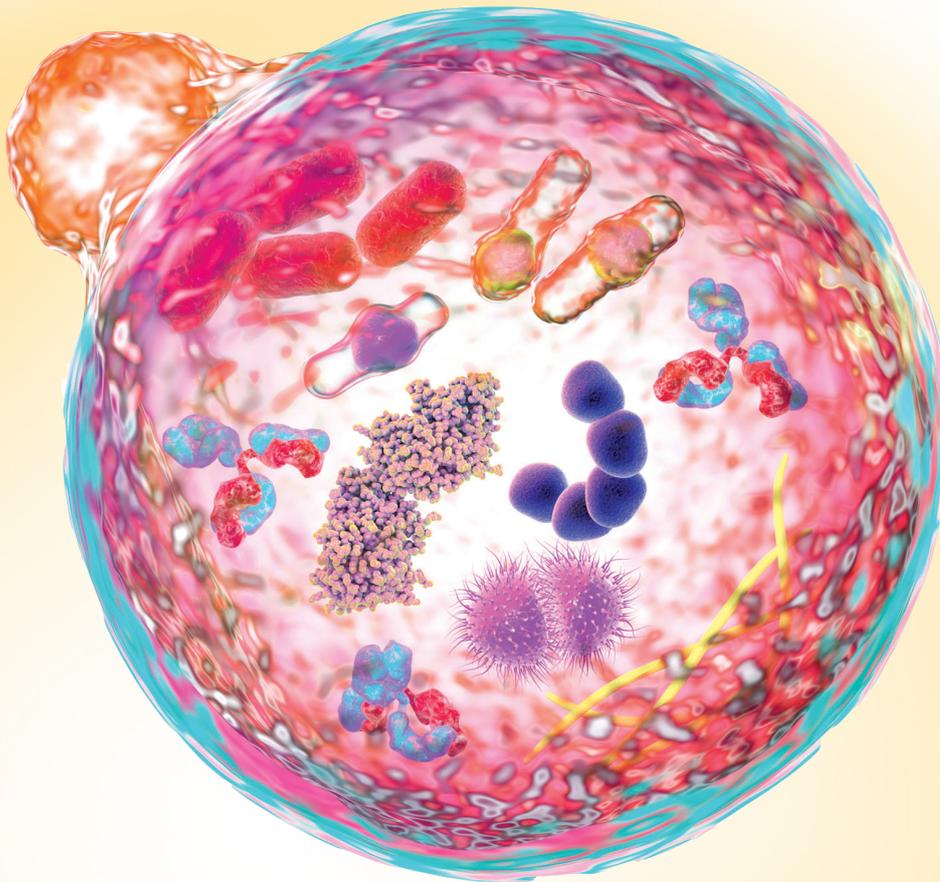
Learn more about **spermidine, Longevity Labs+** and our **scientific advisory board** at spermidineLIFE.com and follow us on    

Legal Disclaimer: this brochure is not intended for end consumers, but for current and future business partners. The content of this brochure may only be passed on and communicated to end consumers in compliance with the legal framework and requirements in the respective countries.



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Healthy Cells. Healthy Life.



The Innovation for Cellular Health With Natural Spermidine.
Developed by Leading Cell Researchers in Austria.

For Business Partners.



Zinc has a role in the process of cell division and contributes to a normal DNA- and protein synthesis and the protection of cells from oxidative stress.

In cooperation with
the University of Graz



Renewal begins in your cells. Renewal begins within you.

spermidineLIFE[®] is the world's first spermidine-rich nutritional supplement to activate autophagy and promote cell renewal.

The development of **spermidineLIFE[®]** is based on the research findings of the Karl-Franzens-University Graz under the supervision of Prof. Frank Madeo. **spermidineLIFE[®]** has been created through several years of scientific cooperation and in-house development. **spermidineLIFE[®]** has been clinically tested by independent and renowned clinics and universities for safety, tolerability and effectiveness.

With **spermidineLIFE[®]**, we have translated scientific know-how into natural solutions for the challenges of our daily lives. Our vision is to support our customers in leading a healthy, active and long life.

What is spermidine?

Spermidine, an endogenous substance, is a polyamine, which occurs in every single body cell. Spermidine is a natural component of our cells. It is produced by our organism in order to activate autophagy, through which our cells can regenerate and maintain their functionality. Although our body is able to produce spermidine itself, the endogenous production decreases considerably with age. Thus, our cells have less spermidine available to activate autophagy, causing a decrease in the ability to regenerate our cells and the susceptibility to serious diseases can therefore increase.

Spermidine is not only produced within our cells but can also be found in different concentrations in various fruits and vegetables, even in meat and cheese. About one third of the spermidine content in our body is produced by our organism's own cells. The rest is absorbed through food and dietary supplements.

Spermidine - whether produced by our cells or ingested through food - is the only known natural and endogenous substance that has the ability to activate autophagy and thus, effectively support cell renewal.

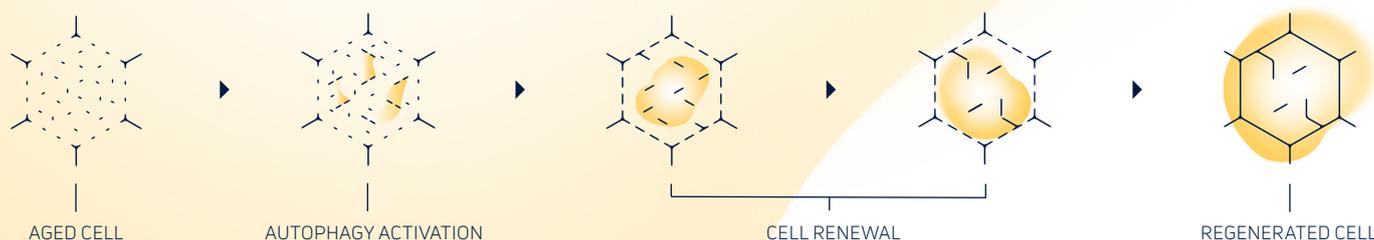
What is autophagy?

The autophagy process (ancient Greek for „self-(auto) eating (phagein)“) is a type of cellular recycling program in which cells metabolize aged, damaged or useless cell components and produce energy as a result.

Damaged cell components contribute significantly to the development of age-related conditions. Through the activation of autophagy and the utilization of these old and damaged cell components, the cellular metabolism is promoted, and the cell is kept youthful and healthy. A functioning autophagy is therefore essential for the protection against gerontological conditions.

Autophagy can be induced by fasting, exercise and certain substances such as spermidine. In light of the medical significance, the Japanese Yoshinori Ohsumi received the Nobel Prize for Medicine in 2016 for his contributions to the understanding of autophagy.

AUTOPHAGY. HOW RENEWAL WORKS.



The Importance of Cells.

Cells may be the smallest units of all organisms, but they play a critical role in the human body, fulfilling its vital functions.

As we age, cell production and **cell renewal (autophagy)** slows down and natural cell loss can occur. With time, cell functions subside and diminish operational capacity. As the human body starts aging, age-related conditions begin to emerge.

Cells have different mechanisms to boost **cell regeneration** and to protect themselves against external influences. Calorie reduction (**e.g. intermittent fasting**) and **regular exercise** promote a functioning waste recycling within our cells.

spermidineLIFE® Original 365+ Supports Autophagy.¹



spermidineLIFE® is a dietary supplement made of natural **spermidine-rich** wheat germ extract, which supports **your body's cell renewal**. This innovative dietary supplement has been developed during years of research in cooperation with **the University of Graz** and is **clinically tested**.³ A steady spermidine concentration is **guaranteed** through rigorous quality control of every product batch.

We only process **natural spermidine** throughout the manufacturing procedure. Our **customers' safety** is important to us. Therefore, we deliberately avoid the use of synthetic spermidine in all production steps.



Natural spermidine



Clinically tested³



Supports cellular renewal¹



Developed in Austria



For whom?

For people who want to support their body's **cell renewal** and preserve their energy level daily.^{1,2}

Areas of application

- To **support your body's cell renewal**¹

Ingredients

Spermidine-rich wheat germ extract (1 mg spermidine/day), zinc, vitamin B1.

Suggested use

Take 2 capsules daily with liquid after a meal, ideally at the same time every day.

The Brain Cells.

The brain is part of the nervous system and is connected to the entire body via incoming and outgoing neural pathways. The human brain is the most complex structure known to date. An impressive number of 100 billion neurons are the basis for our everyday thinking processes. They drive our actions and control all bodily functions. Scientists found out only recently that we produce new neurons inside our brains even after birth. Approximately 1,400 new cells are produced in the hippocampus each day.

About one third of all **brain cells** are replaced over the course of a human life. However, the number of cells in our brain dying is much greater than the number of new cells which our body produces, especially in older age. There is also a **large number of by-products** which are produced during our brain's metabolism and which can compromise the proper functioning of the brain and require regular disposal. **A great number of scientists have been producing studies on cell renewal or autophagy since this scientific field was opened.**

spermidineLIFE[®] Memory+ Supports Brain Cells.^{4,6}



1. Step: Renew your cells with the tried-and-tested recipe of **spermidineLIFE[®] Original 365+¹**

2. Step: Support normal cognitive function.⁴

With the additional support of:

- Saffron
- Brahmi and
- Iron



Natural spermidine



Saffron & Brahmi



Supports brain cells^{4,6}



Supports cellular renewal¹



For whom?

For people who wish to boost their mental performance.

Areas of application

To support

- cognitive function⁴
- mental performance⁴
- emotional balance and relaxation^{6,7}
- reduction of fatigue⁵

Ingredients

A combination of:

- natural **spermidine-rich** wheat germ extract,
- **Brahmi** powder,
- **saffron extract** and
- brain-activating micronutrients.

Suggested use

Take 2 capsules daily with liquid after a meal. In times of tiredness and fatigue, it is recommended to double the daily dose (4 capsules).

4. Zinc and iron contribute to normal cognitive function. | 5. Iron contributes to the reduction of tiredness and fatigue.

6. Thiamine contributes to normal psychological function and to normal functioning of the nervous system. | 7. Saffron contributes to decrease tenseness and helps to decrease irritability.

The Role of Immune Cells.

Immune cells, also referred to as immunocytes, support us every day in fighting pathogens. They recognize harmful substances, bacteria, viruses, and other invaders early, neutralizing and removing them from our organism. In addition to leukocytes, immune cells comprise lymphocytes, granulocytes, monocytes, and phagocytes.

In times of increased burden on our immune system, for example in the case of mental or physical tiredness or unhealthy nutrition, our body requires additional support. **Cells play an important role in our immune system response.** The supply of micronutrients is decisive for the support of their functions.

spermidineLIFE® Immunity+ Supports Immune Cells.⁸



1 Step: Renew your cells¹ with the tried-and-tested recipe of **spermidineLIFE® Original 365+**

2. Step: Support the function of the immune system.⁸

With the additional support of:

- **vitamin C**
- **shiitake mushroom powder**



Natural spermidine



Shiitake mushroom powder



Strengthens immune cells⁸



Supports cellular renewal¹



For whom?

For people who want to support their **immune system** especially in times of increased immune system burden.

Areas of application

- To support the body's immune response⁸
- For nutritive assistance during times of increased immune system burden
- To support the body's cell renewal¹

Ingredients

A combination of:

- natural **spermidine-rich** wheat germ extract,
- **shiitake mushroom** powder and
- immunoactive micronutrients.

Suggested use

Take 2 capsules daily with liquid after a meal, ideally at the same time every day. In times of increased stress, it is recommended to double the daily dose (4 capsules).

The CelVio® Complex is the heart of our spermidine-LIFE® innovations and is what makes our products so extraordinary. Cel stands for “Cella” (the cell) and Vio for “going or traveling” meaning the path or life cycle of the cell. What makes our CelVio® Complex special?

The 100% natural spermidine content is the unique feature of the CelVio® Complex, which accounts for the complex overall effect of the plant extract.

The spermidine, naturally contained in wheat germ, is carefully extracted and concentrated to produce our unique phytoextract. The CelVio® Complex is composed of naturally extracted, locally sourced, non-GMO European, wheat germ.

Our technology to leach polyamine structures and polyamine chains out of the complex, in order to produce our extract, works without any chemical solvents. The fluid extract obtained in the process is purely based on all natural wheat germs. It contains natural, highly concentrated spermidine as well as several other natural substances, such as spermine, unsaturated fatty acids, vitamins and minerals in their natural complex.

For us, this is particularly important as we believe in products based on 100 % natural spermidine to avoid putting our highly sensitive organism at risk.

spermidineLIFE® is the only spermidine product on the global market which has already been used in the

available dosage and concentration as study medication in clinical trials such as at the university hospital Charité in Berlin, where its safety and tolerability has been confirmed first. The European Food and Safety Agency (EFSA) has classified and approved spermidineLIFE® as “Novel-Food” due to its unique and innovative character.

Given the fragile nature of the spermidine molecule, we have developed our exceptionally gentle extraction process over several years in cooperation with the University of Graz, which is the key to our unique CelVio® Complex. The wheat germ cultivated in our region undergoes very strict quality assurance processes and has its spermidine concentration and microbiological safety verified by independent laboratories.

To ensure a continuous scientific progress and highest quality standards, we have our top-notch advisory board, guiding us and challenging our ideas on any scientific matter in the development of our product line. Our council includes world renowned scientists like Prof. Frank Madeo, David A. Sinclair, PhD., Elizabeth Yurth, MD and many more.

All spermidineLIFE® products contain the CelVio® Complex. Whether you choose our original, a boost for your immune cells or substantial support for your brain cells: You will always get our unique extract with the highest quality and safety.

Our current product range.

