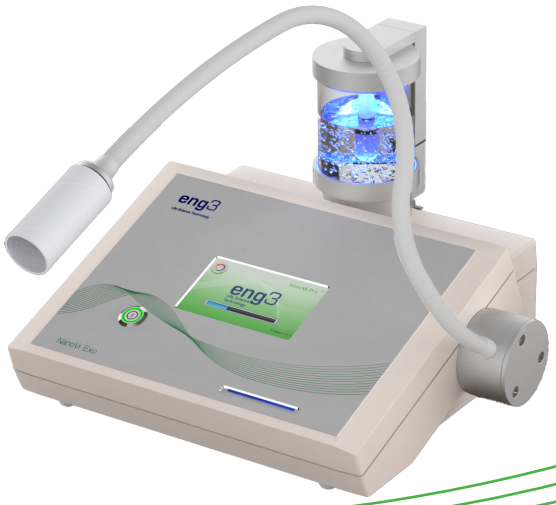
NanoVi®



Understanding NanoVi® Technology

Assisting the protein folding process to help reestablish, preserve, and boost cellular activity

Only with folded proteins can the body execute all biochemical processes and perform important functions such as:

- Recovery and regeneration
- Energy (ATP) production
- Immunity
- Healthy aging
- Fighting chronic diseases

eng3

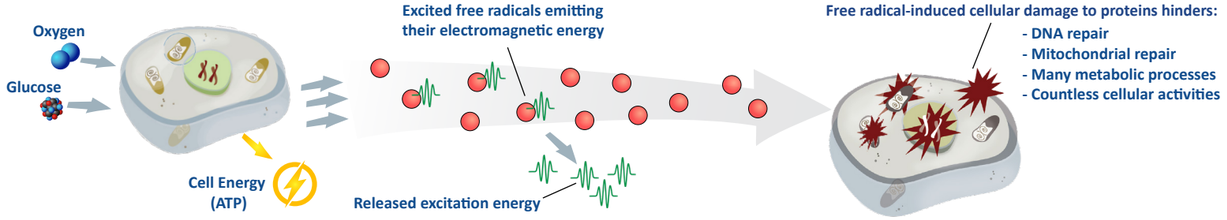
NanoVi Enhances Cellular Activity by Supporting the Fundamental Process of Protein Folding

Cells—and the thousands of proteins they contain—are constantly damaged by oxidative stress. Proteins repair this damage. Proteins must fold into precise three-dimensional shapes to repair damage and carry out all their vital functions. Our patented NanoVi technology supports the crucial protein folding process. By assisting folding, it helps repair existing damage and slows its accumulation. NanoVi provides a unique way to protect and restore protein functions—including enzymes, hormones, and antibodies—which govern every aspect of your cellular activity and repair.

The Problem: Oxidative Stress Damage

Every cell activity requires energy. When a cell derives energy from oxygen and glucose, free radicals are naturally generated. Some of these free radicals are in an excited, high-energy state and release this electromagnetic energy into the surrounding water. Whether or not they are in an excited state, free radicals inevitably create oxidative stress damages to all cellular components.

This triggers a vicious cycle: the more active a cell is, the more free radicals it produces, and the more damage it sustains. Proteins are particularly vulnerable; damage caused by oxidative stress leads to the unfolding of their complex 3D structures. Once unfolded, proteins lose their ability to perform critical functions, DNA and mitochondrial repair for energy production, and overall cellular maintenance. As oxidative damage accumulates, cellular activity declines. Over time, this cumulative damage contributes to aging, disease, and both physical and mental decline.

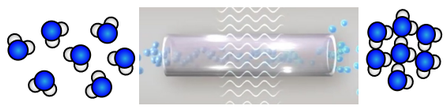


Understanding Water at the Molecular Level

Water is essential in cell biology—it has unique properties that make life possible. Three key features of water are particularly relevant and are described in scientific literature:

- **Its ability to absorb specific electromagnetic energies**
- **The formation of coherent domains**
- **The changes of order (entropy) on surfaces**

When water molecules absorb certain electromagnetic energies, coherent domains form – tiny regions of order (level of entropy) that rapidly transfer to the surrounding water molecules, similar to fans doing The Wave in a stadium. When coherent domains reach a surface, a thin layer of ordered water molecules forms, called exclusion zones (EZs). Without a constant supply of coherent domains, these EZs have a short lifespan. They are unstable and cannot be stored, yet they play a crucial role in biological processes.



The Solution: NanoVi Cell Regeneration Technology

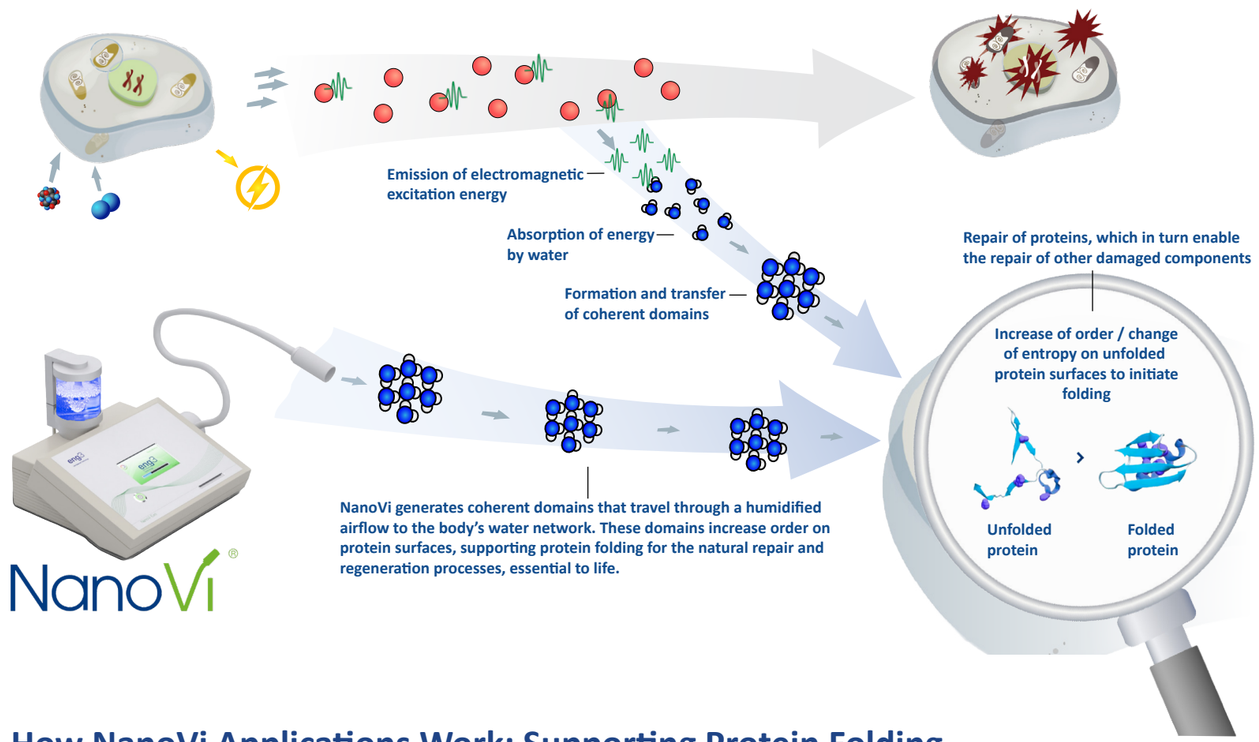
NanoVi's patented technology utilizes water-absorbable electromagnetic energies—including those released by free radicals—to create coherent domains in water. These organized water domains are essential for the formation of exclusion zones (EZs) on the surface of proteins. Since coherent domains only last as long as the energies are delivered to and transmitted by densely packed water molecules, the NanoVi device uses a humidified airflow to transmit the coherent domains across the mucous membranes throughout the water in the body.

Coherent water domains are essential for the formation of exclusion zones (EZs) on the surface of proteins, which in turn are crucial for protein folding. For this reason, NanoVi is also referred to as a technology that supports protein folding.

NanoVi is manufactured in the USA, is registered as a medical device in several countries, and has therefore met the required independent clinical evaluations and quality management requirements.

Water's Role in Protein Folding

In cell biology, the properties of water—energy absorption, formation of coherent domains, and order on surfaces—are fundamental for protein folding. The process begins when excited free radicals release their specific, absorbable electromagnetic energy. This energy is then absorbed by the surrounding water molecules, creating coherent domains that, on surfaces of unfolded proteins, create a thin layer of higher ordered water molecules. Then, the entropy exchange critical for protein folding occurs. Unfolded proteins exist in a disordered state (high entropy). To fold into a higher-order protein, the unfolded protein must transition to an ordered state (low entropy). The water surrenders its order, proteins gain order, fold, and become structured and functional.



How NanoVi Applications Work: Supporting Protein Folding

In the device, various electromagnetic energies, including those emitted by free radicals (hence bio-identical), are delivered to a humidified airstream, are absorbed by the water molecules and lead to the formation of coherent domains.

When the humidified airstream contacts the mucous membranes of the nose and mouth, the coherent domains are transferred into the body's water network and are further distributed within the cells. This transfer increases the order of the water molecules on surfaces within the cells, thereby supporting protein folding to maintain vital protein structures and functions.

Impacts and Benefits of Restored Protein Functions

Without accumulated protein damages, cells recover their full capacity for repair and regeneration. Restored proteins repair oxidative stress damage, enhance mitochondrial (ATP) production, improve detoxification, and increase utilization of oxygen, nutrients, and other ingested substances. Ultimately, restored protein functions improve all cellular processes.

Performance - Enhance both physical and mental performance, shortens recovery time, increases endurance, builds resilience.

Health and Recovery – Supports faster recovery, reduces the risk of chronic disease, and increases overall vitality.

Aging and Longevity – Reduces cumulative cellular damage, slows aging, promotes a longer, healthier lifespan.

SCIENTIFIC ORIGIN OF NANOVI® TECHNOLOGY

Early 1900s – Proteins were identified as the workhorses of the cells; it was determined that proteins must fold into 3-D structures to function and that this folding process is based on entropy change. The sum of all protein function is called cellular activity.

Mid 1900s – Free radicals, more precisely, reactive oxygen species (ROS), including singlet oxygen, were identified as the cause of oxidative stress damage to proteins and other cell components. Unrepaired damage leads to loss of performance, aging and to chronic illness. Additionally, researchers identified that singlet oxygen emits a characteristic electromagnetic energy - the ROS-specific signal.

Mid 1980s – Researchers at the German Fraunhofer Institute explored singlet oxygen technologies with the goal of emitting the ROS signal in water to affect biological systems. Unfortunately, singlet oxygen producing technologies require a catalyst whose output is imprecise with respect to quantity and reliability.

Late 1990s – It was recognized and proven that ordered water is formed when specific electromagnetic energies, such as the ROS-specific signal, are absorbed by water. This ordered water is also call Exclusion Zone (EZ) water or the 4th phase of water.

Late 1990s – It was determined that in cells, the process of protein folding is triggered by the formation of ordered water on the surfaces of unfolded proteins. It causes the change of entropy that enables protein folding. Because proteins are embedded in the cell's water, the order (level of entropy) of the cell's water is essential for cellular activity.

Early 2000s – Scientists at Universities and research Institutes describe what causes the absorption of certain electromagnetic energies in water and how this ultimately leads to the formation of ordered water (EZ water) on surfaces. They use the term "coherent domains in water" to refer to these complex properties and processes.

Mid 2000s – Eng3 corporation developed and patented NanoVi, a unique non-catalytic technology to enhance coherent domains in water, which ultimately lead to the increase of ordered water to assist protein folding and therefore to improve cellular activity. The term Bio-identical Signaling referred to the use of the ROS-specific electromagnetic energies used in this first generation of NanoVi.

Late 2000s – University research confirmed the signal quality and quantity of the catalyst-free NanoVi technology. It is several orders of magnitude more efficient than technologies that rely on the harmful singlet oxygen via a catalyst. NanoVi is also the only technology that continuously checks and monitors the absorbable signal during use.

Early 2010s – In vivo and in vitro studies, including placebo-controlled studies, confirmed the effectiveness of NanoVi on protein functions. The proteins examined reflect cellular activity and are, among other things, responsible for cell repair and regeneration.

Late 2010s – Eng3 developed the next generation of NanoVi technology by applying additional, highly absorbable wavelengths to further increase coherent areas in the humid air. Independent tests and university studies have confirmed the increase of the coherence in humidity and ultimately the increase of ordered water on surfaces.

NANOVI® USED TO BOOST CELLULAR REPAIR AND REGENERATION

NanoVi devices are proven to increase the coherent domains in humidity, to improve protein function and positively influence cellular activity. NanoVi devices rely on a biophysical process and does not introduce chemicals or substances of any kind. It is used in all parts of the world to improve cellular activity. Areas of application includes:

- Boosting performance - faster regeneration to increase and optimize physical and mental performance
- Preserving wellness - ongoing regeneration to promote vitality, healthy aging, and quality of life
- Reestablishing health - jump-start regeneration to address disorders associated with oxidative stress and age-related problems

REPAIR AND REGENERATION: RESTORED PROTEIN FUNCTION

By assisting the ability of proteins to fold, damage is repaired faster so that functions are protected or regained. That results in:

- less accumulated oxidative stress damage
- improved cellular activity and vitality
- better resilience
- increased oxygen utilization
- higher cell energy production
- improved cell metabolism
- stronger immune system
- better execution of all biochemical processes

PROTEIN FUNCTION REDUCED BY OXIDATIVE STRESS

Oxidative stress is inevitable and leads to protein damage. The repair requires re-folding of proteins, this means ordered water must form on their surfaces. Unfortunately, the body's ability to produce ordered water is limited. The damage then manifests itself in lost protein function and causes:

- aging
- age-related disorders
- weaker performance
- lower energy, burn out, and fatigue
- reduced concentration and mental clarity
- poor sleep
- deterioration in mood and stress resilience
- slower regeneration after physical exertion
- diminished quality of life and health

Most chronic diseases are associated with oxidative stress. When cellular repair declines, it can result in chronic diseases including:

- Cardiovascular diseases
- Cancers
- Diabetes
- Respiratory diseases
- Mental and behavioral disorders
- Cognitive disorders
- Neurodegenerative diseases
- Autoimmune diseases

The statements in this brochure have not been evaluated by the FDA.
This product is not intended to diagnose, treat, cure, or prevent any specific disease.

Eng3 Corporation
+1 206.525.0227
info@eng3com
www.eng3.com