UNLOCK THE POWER OF

HETEROCHRONIC PARABIOSIS

YOUNG

PLASMA CONDITIONING

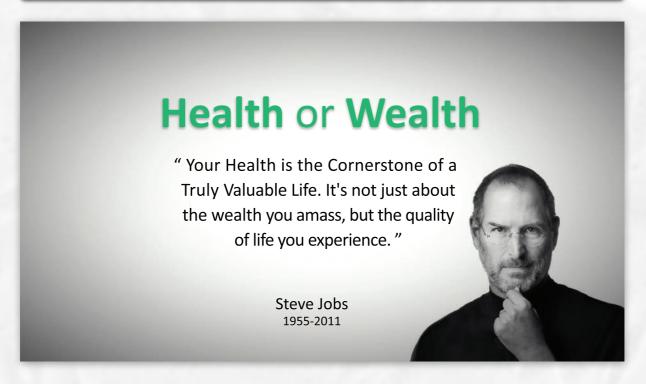
ADVANCED ANTI-AGING PREVENTIVE BIOTHERAPY

Regulating Self-Healing Capacity to Prevent and Treat Chronic Diseases



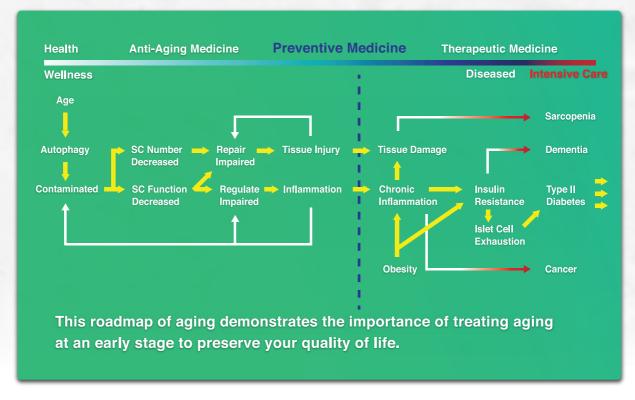


▶ 4-10 Nishiazabu, Minatoku, Tokyo, Japan.



Our revolutionary anti-aging biological treatment, built on the principles of heterochronic parabiosis, offers a proactive approach to safeguarding your wellness. Leveraging our expertise in Endothelial Progenitor Cells (EPC), we enhance your cardiovascular health, reducing the risks of cardiovascular disease (CVD) while simultaneously reinforce your body's repair capacity to fend off potential threats and the risk of other chronic conditions.

Choosing to invest in your health isn't merely wise; it's the wisest choice you can make. It yields dividends in a life filled with fulfillment and prosperity. Embrace our EPC-powered treatment to take command of your well-being, embarking on a path to a wealthier, healthier life.



Aging is the major risk factor for most chronic diseases Dr. Pan FuShih Md. Ph.D, Univercity of Chicago, USA Heart disease 572,336 100 0 condition 1 condition 90 Cancer **454,176** ☐ 2 conditions 80 3 conditions COVID-19 234,434 4 conditions 70 Accidents 170,166 ■ 5 conditions 60 ☐ 6 conditions • Stroke 123,215 ☐ 7 conditions 50 ■ 8+ conditions • Chronic respiratory 107,599 40 Alzheimer 87,866 Diabetes 74,716 **CVD** Other respiratory 50,635 • Renal failure 42,596 100k 200k 300k 400k 500k 600k

Six in ten adults in the US have a chronic disease. **Four in ten** have two or more.

■ Number of chronic disease by age group

PREVENTION IS KEY.

Nine out of ten leading causes of death are chronic. Seven out of ten are associated with cardiovascular conditions. One small step today can change your life tomorrow.

■ Top 10 leading causes of death 2020-2022



Heterochronic Parabiosis

Experimental research to clinical approach

Heterochronic parabiosis, the pioneering scientific research that provides evidence of aging reversal, involves surgically connecting the blood circulatory systems of two animals -- one old and one young. This groundbreaking experiment has yielded remarkable findings, demonstrating that the old animal exhibits rejuvenation when its body receives young blood, while the young animal experiences accelerated aging when exposed to old blood. These findings highlight the pivotal role of blood in both the aging process and its potential reversal. As the primary internal environment where cells reside, blood plays a key role in influencing aging trajectory of an organism.





Dr. Alexis Carrel (1873 - 1944) The father of heterochronic parabiosis Nobel Laureate in Physiology or Medicine 1912

Adequate modern research data have now shown that exposure to a young circulatory system can have positive effects on tissue regeneration, cognitive function, and lifespan in an older body. These rejuvenation effects where cellular functions restored are attributed to specific substances in young blood, such as certain growth factors and proteins like VEGF and GDF-11 that promote tissue regeneration and repair. Additionally, regulation of "bad" proteins in aged plasma, such as beta-amyloid and tau protein, and alpha-synuclein, are contribute to aging effects causing deterioration and age-related diseases.

The highlight is, for generations, scientists and doctors have primarily focused on identifying beneficial substances and factors that contribute to health and longevity. However, a significant oversight has occurred in our understanding of the aging process. It is the realization that old blood, in fact, possesses toxic properties that are far more dominant than the beneficial substances we have traditionally emphasized. These toxic elements actively contribute to the deterioration in cellular function and the acceleration of aging. This crucial insight challenges the conventional approach and urges us to shift attention towards addressing the harmful substances present in aging blood. By acknowledging and investigating heterochronic parabiosis, we gain a deeper understanding of the aging process and pave the way for more effective interventions in promoting longevity and reversing the effects of aging.

Efforts to develop a human model of heterochronic parabiosis have been performs at several universities in the USA since year 2010, including the University of Chicago, Stanford, Harvard, and UC Berkeley.

Young Plasma Conditioning

Intermittent Plasma Exchange for Restoring Casdiovascular Health

Boosts Immune Power **Promotes**Tissue Healing

EnhancesYouthful Vitality

Supports Cellular Repair

Young Plasma conditioning is an innovative medical technique developed by our laboratory based on the principles of heterochronic parabiosis. This cutting-edge biological therapy employs a carefully compounded formulation of FDA approved biochemical substances, including antioxidant, growth factors, hormones, cytokines, extracellularmatrix components and ATP, to act as a parabiotic solution or young factors that enhance cell viability and promote overall well-being. These substances naturally occur in the human body and have undergone extensive research to ensure minimal side effects when infused into the patient's bloodstream.

The compounded solution undergoes a specialized treatment known as plasma conditioning, which involves blood letting and IV infusion. This medical protocol is meticulously designed to optimize the delivery and uptake of the bio-substances by cells, enhancing the therapeutic effectiveness of the treatment. The primary objective of Young Plasma conditioning therapy is to improve cell viability, stimulate tissue regeneration, and promote overall well-being in a wide range of medical conditions.



in vivo animal model - 1905

Old and young mice are surgically connected to study the effects of shared circulatory system on aging and its reversal.



in vivo human model - 2015

Infusing lab developed parabiotic solution while removing pro-aging factors to study their effects on human rejuvenation.

Our lab maintain an unwavering commitment to upholding the highest standards of consistency and sterility throughout the process. Our quality control measures ensure that each compounded solution is precisely measured and mixed. By prioritizing the individual requirements of each patient, we are dedicated to providing a personalized and effective Young Plasma Conditioning therapy, supported by lab automation, to promote optimal health and wellness. - **Lotus Biochemicals Lab**



How It Works?

Young Plasma Conditioning (YPCt) is a therapeutic approach rooted in the fundamental concept of heterochronic parabiosis, an anti-aging science which extensively studied since 2010 with numerous research papers published in major scientific journals. These outcomes have significantly advanced our understanding of human aging at a cellular-level and explored potential strategies for its reversal.

At Lotus Biochemicals Japan, we are focus on the human anti-aging modalities. Leveraging our expertise in recombinant protein, chaperonization, and cell culture technologies, we have developed this biochemical approach which synergistically combines phlebotomy and compounding infusion. Yet the availability of cell viability tests now has enabled us to gather data-proven evidence supporting the efficacy of this therapy.

Through rigorous clinical trials, we have validated the effectiveness of the Young Plasma Conditioning compounding formulation, which replicates the rejuvenating effects of GDF-11, VEGF, and other young factors known for their rejuvenation and regeneration properties. By utilizing commercially available bioactive substances approved by the FDA instead of donor's plasma, we ensure the safety, feasibility, and regulatory compliance of our treatment. With a steadfast commitment to applying our extensive knowledge and adapting advanced techniques, we strive to provide a reliable and effective therapeutic solution for our patients.



Cell Atlas

Ensures all cells functionality and accurately characterizing gene expression, morphology, and functions in a cell atlas.



Cell - Cell Interactions

Allowing proper communication and signaling between cells, which is critical for functioning of many biological processes.



Regulatory Networks

Ensure that cells are capable of generating and repairing tissues, leading to improved overall health and longevity.



Rejuvenation Factors

Ensure cells are activate and accurately analysing of signaling pathways and gene regulation.