



MORPHIYA

EXOMORPHIC BIOTECH™

REGENERATE AND REJUVENATE FROM WITHIN
BIO-ENGINEERED EXOSOMES
TAILORED FOR HAIR AND SCALP CARE

2002

The London Regenerative Institute (LRI) founded by Dr. Steven Cohen and Dr. Tunç Tiryaki.

2006

They achieved a significant scientific milestone with the use of fat-derived stem cells, creating regenerative therapies that have been adopted globally by the medical community.

2009

The introduction of Cytori enzyme-based stem cell isolation.

2017

Launch of the Lipocube mechanical isolation system.

Today, LRI is a premier hub for multidisciplinary expertise, uniting the world's leading scientists and doctors to advance bio-science in cellular regeneration.

A cornerstone of LRI's innovation is the patented Exomorphic Biotech™ program. This transformative therapy uses Hybrosome™ and this breakthrough exemplifies LRI's mission to harness the body's natural regenerative potential through advanced therapies that enhance both aesthetics and internal health.

OUR GLOBAL COLLECTIVE OF SKIN LONGEVITY EXPERTS



**Assoc. Prof. Dr.
Tunç Tiryaki**



**Dr. Steven
R. Cohen**



**Dr. Sahar
Foad Ghannam**



**Dr. Kai-Uwe
Schladraff**



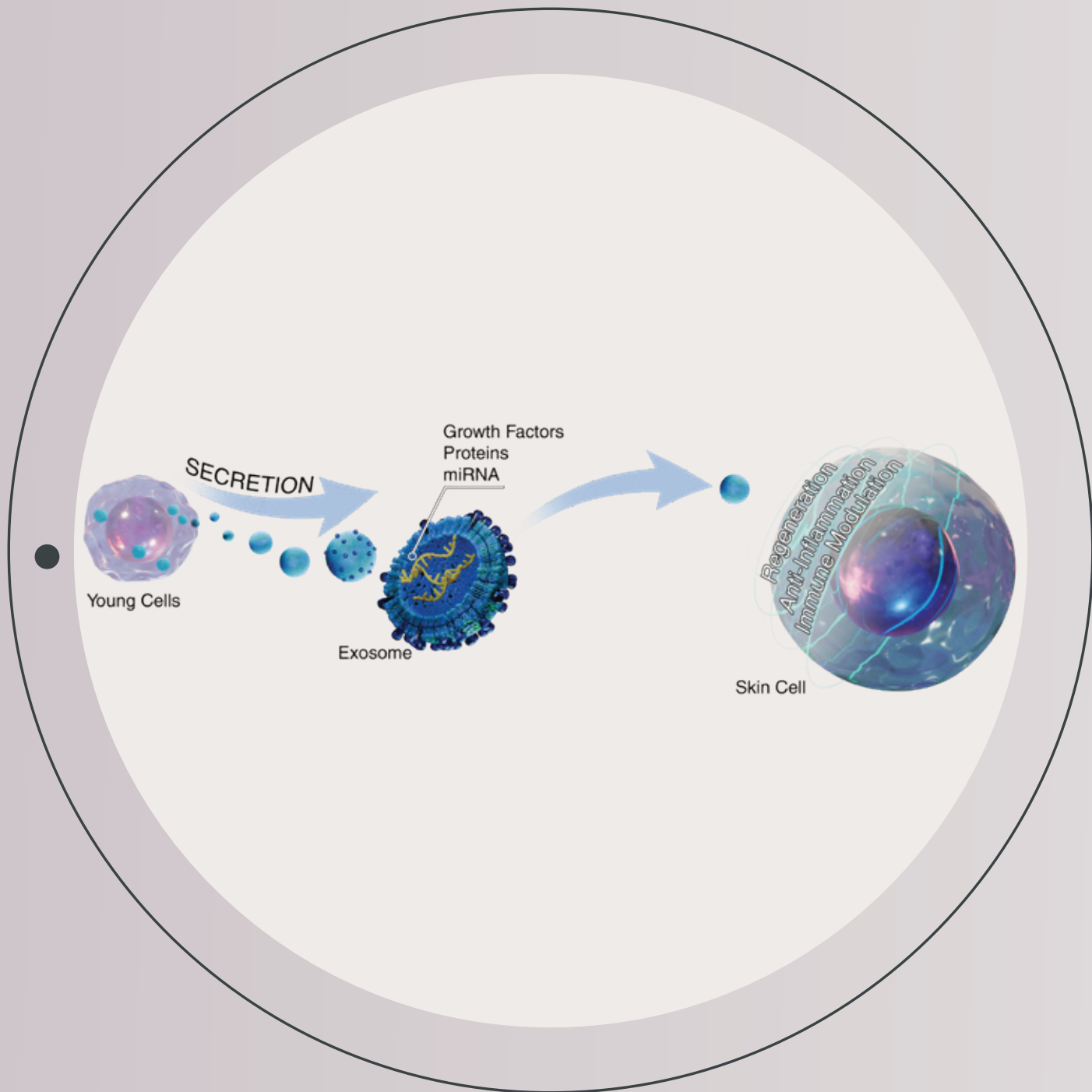
**Dr. Aris
Sterodimas**



**Dr. Benjamin
Ascher**



**Dr. Diane
Duncan**



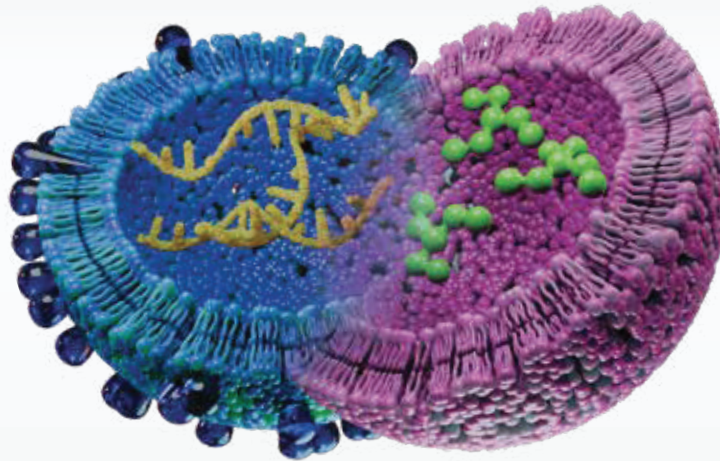
WHAT ARE EXOSOMES?

Exosomes are tiny extracellular vesicles released by cells that act as ‘youth messengers’. They transfer miRNAs, proteins, and growth factors between cells, supporting tissue repair, scalp health, and hair follicle rejuvenation. The effectiveness of exosomes is significantly enhanced by the availability of critical building blocks in the recipient cells.

Our advanced technology enhances the natural potential of exosomes, overcoming their limitations and delivering superior results for hair regrowth and scalp rejuvenation.

Growth Factors
Proteins
miRNAs

Vitamins
Peptides
Minerals



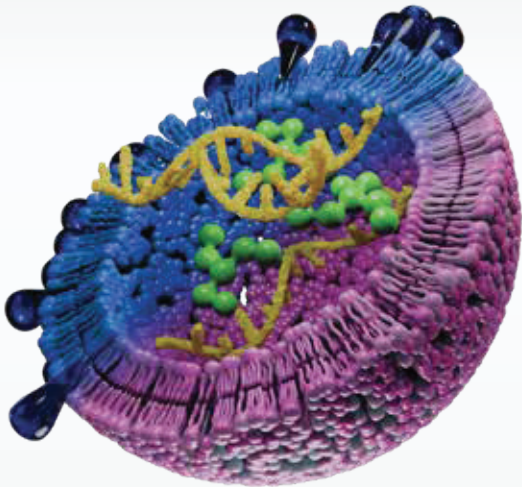
Exosome

Liposome

Exosomes play a critical role in hair growth by facilitating communication between epithelial and mesenchymal cells, stimulating dermal papilla cells, activating hair follicle stem cells, and promoting angiogenesis to support healthy hair regeneration.^{1,2}

Liposomes, pre-filled with essential nutrients and clinically-proven active ingredients, support optimal cellular function.

INNOVATING YOUTHFUL SOLUTIONS: OUR TECHNOLOGY AND APPROACH



Bio-engineered Exosome
HYBROSOME™

Patented Hybrosome™ Technology

Combines exosomes with liposomes filled with essential nutrients and powerful natural ingredients through cationic fusion.

Young Exosome Sources Tailored for Targeted Skin Benefits

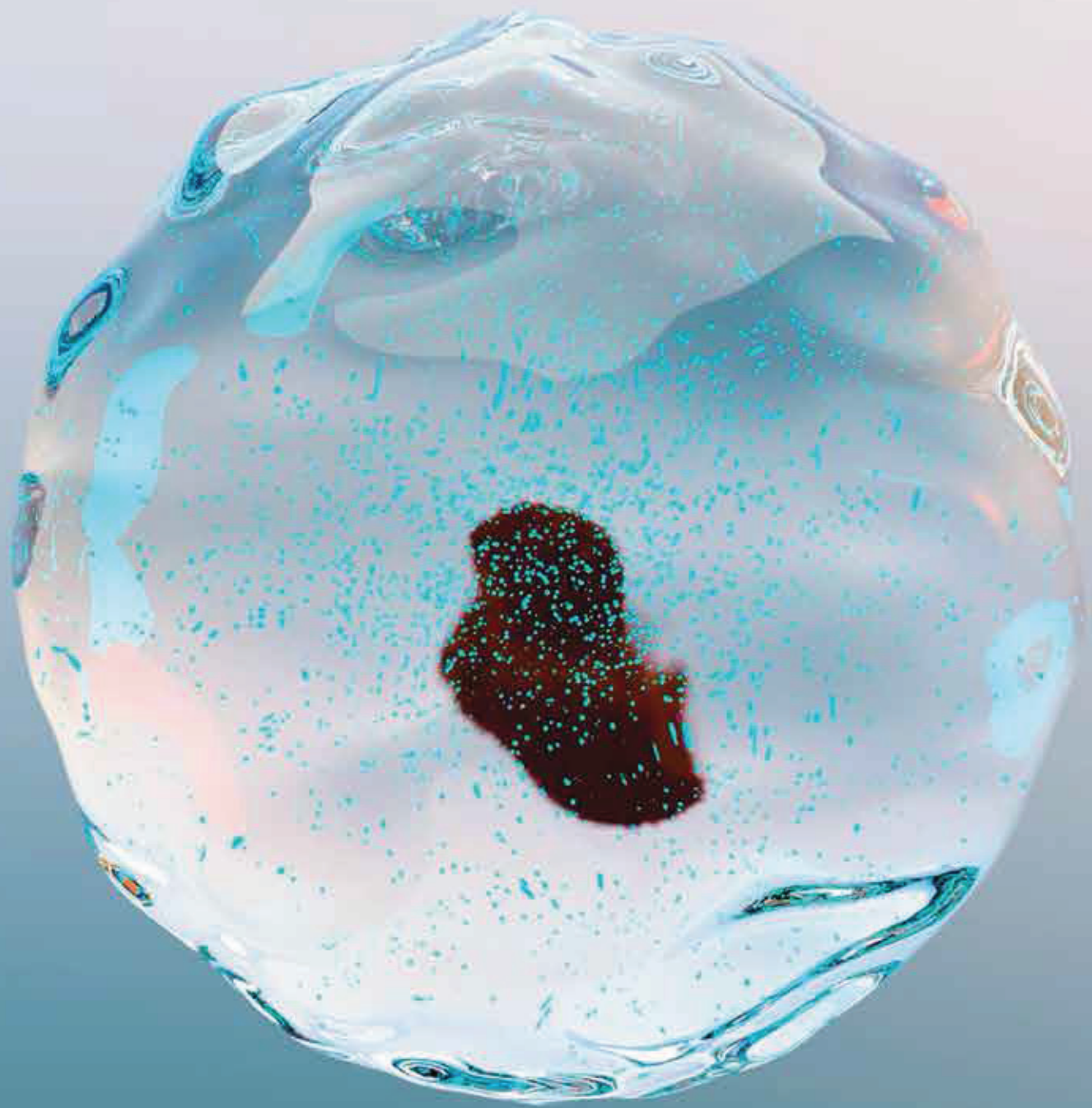
All our exosomes come from young origins, such as newborn calf umbilical cord blood and early-stage plants. Hybrosome™ Technology enables the bio-engineering of various exosome sources. Leveraging our expertise, we carefully select the most effective source for each product to ensure maximum efficacy for specific skin concerns.

Pharmaceutical-Grade Sourcing and Rigorous Safety Testing

The cord blood is ethically sourced from birth waste materials, following strict pharmaceutical standards to ensure safety and quality.

Patented Proprietary Isolation Technology

Utilizes advanced techniques to efficiently isolate and activate plasma.



HYBROSOME™ ADVANCED BIO-ENGINEERED EXOSOME

Hybrosome™ is a bio-engineered, young exosome combined with liposomes filled with essential nutrients and potent natural ingredients to optimize skin and scalp regeneration.

Unlike ordinary exosomes, Hybrosome™ delivers both rejuvenating signals and all vital nutrients, creating an optimal environment for cellular renewal, penetrating deeply from the epidermis to the dermis.

miRNA INSIGHTS IN CALF CORD BLOOD DERIVED HYBROSOME™

Unlocking Cellular Longevity

Hybrosome™ contains an extraordinary diversity of

1,031

unique miRNAs,

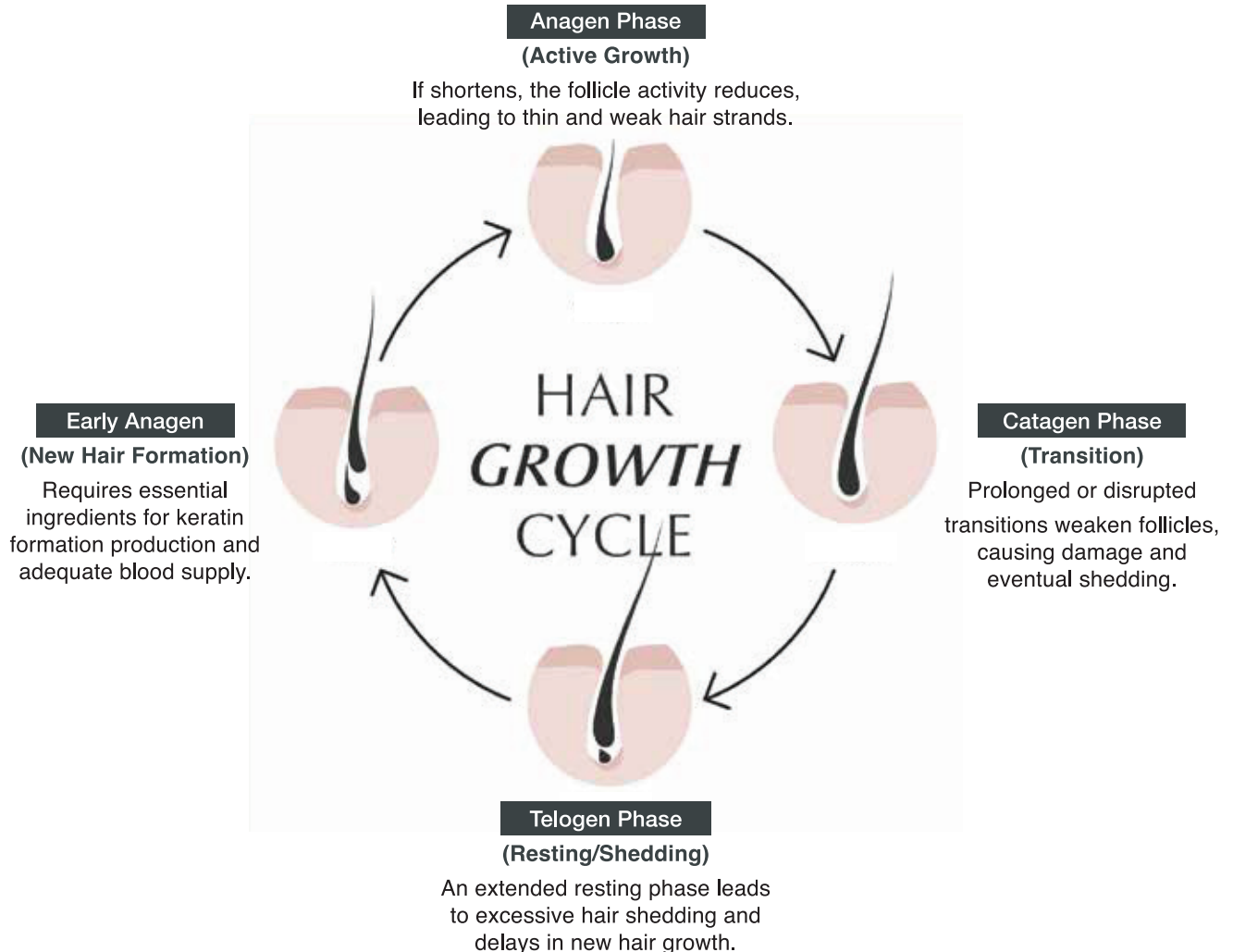
98%

of which are scientifically related to regeneration and lifespan extension.

This unparalleled miRNA variety drives advanced cellular rejuvenation and regeneration, making Hybrosome™ a cutting-edge solution for anti-aging and aesthetic applications.

MECHANISM OF HAIR LOSS

Hair loss occurs with the disruption of homeostatis of hair follicle by oxidatif stress, hormonal disorders, vascular insufficiency, loss of interaction between epithelial and dermal components, and inflammation.^{1,2}



1. Du F et al. Oxidative stress in hair follicle development and hair growth: Signaling pathways, intervening mechanisms and potential of natural antioxidants. J Cell Mol Med. 2024;28:e18486.

2. Yao JL et al. The role of exosomes in follicle regeneration of androgenic alopecia. Journal of Drug Delivery Science and Technology 90 (2023) 105126.

HYBROSOME™ TECHNOLOGY REDEFINING THE POTENTIAL OF EXOSOME THERAPY IN HAIR REGENERATION

HYBROSOME™ helps to extend the anagen phase for prolonged growth, regenerate hair follicle by stimulating hair growth with growth factors such as TGF- β , IGF-1, and EGF.

HYBROSOME™ helps to stabilize the catagen phase to protect follicles also stimulate dermal cells by enhancing the activity of cells vital for hair growth.

HYBROSOME™ helps to shorten the telogen phase to accelerate regrowth and promote the formation of new blood vessels to nourish hair follicles.

HYBROSOME™ helps to reduce inflammation by modulating the immune response and create an optimal environment for hair follicle activity and long-term hair growth.

A microscopic view of a cell, showing concentric circles representing the cell membrane and internal structures. In the center is a blue sphere. The text is overlaid on this sphere.

MORPHIYA

EXOMORPHIC BIOTECH™

**Bio-engineered
Exosomes**

The background features a light blue gradient with several overlapping circles of varying sizes. A prominent horizontal line, resembling a stylized hair strand or a thin tube, runs across the middle of the image, passing behind the text.

HAIR & SCALP CARE PRODUCT RANGE

Our groundbreaking biotechnology that transforms
aging cells into young cells

SCALP HYBRID EXO



Clinical-Grade Formula for Scalp Health and Hair Growth Restoration

SCALP HYBRID EXO contains 6.95 billion Hybrosome™, derived from newborn calf umbilical cord blood, designed to support optimal hair growth and strengthen hair. Hybrosome™ helps to reset and reactivate the hair bulb's function, creating an ideal environment for cellular renewal and effective hair restoration with scientifically proven ingredients.

It can be combined with various devices and procedures that induce controlled scalp inflammation, enhancing its overall effectiveness.

Ideal for all genders experiencing thinning hair, hair loss, or seeking non-surgical solutions to enhance hair density.

Directions for Use:

Thoroughly mix the vial (Scalp Hybrid Exo) with saline. Apply the mixture. For single use only. **STERILE**

GROWTH REVIVE SCALP SERUM

**Dual-Action Serum System for Optimized Hair Follicle Function and Natural Growth Restoration**

The Day Formula strengthens and nourishes hair follicles while protecting them from external factors. Exosomes derived from newborn calf umbilical cord blood activate hair follicles, promoting healthy growth throughout the day.

The Night Formula works during the body's natural repair phase, supporting hair growth at night. Exosomes derived from milk and grapes rejuvenate hair follicles and encourage the transition from the anagen to the telogen phase, fostering healthy hair growth.

Directions for Use:

Ensure that the scalp area is clean and dry. Shake well before use and apply with the dropper to the targeted areas of your scalp. Gently massage into your scalp and allow it to absorb for 5 minutes.

Anagen Phase

(Active Growth)

miR-218 & miR-24 boost dermal papilla function, promoting hair follicle development and active growth. Biotin and Pyridoxine optimize the growth phase environment.

Other miRNAs for All Phases:

miR-21 & miR-27b: Enhance scalp barrier function and moisture retention for healthy scalp support.

miR-155 & miR-126: Reduce oxidative stress, protecting scalp cells and creating an optimal growth environment.



Catagen Phase

(Transition)

miR-31 & miR-193b stabilize the catagen phase, minimizing follicle damage and supporting a smooth transition to regrowth. Pyridoxine ensures seamless progression to active growth.

Telogen Phase

(Resting/Shedding)

miR-31 & miR-193b regulate the hair growth cycle, accelerating the transition from the resting phase to active growth while minimizing follicular stress and protecting hair follicles.

SCALP HYBRID EXO



Key Ingredients and Their Benefits

SCALP HYBRID EXO is expertly formulated for advanced scalp care and hair regeneration, combining young exosomes with clinically proven ingredients for outstanding results. It delivers vital nutrients that optimize miRNA function, working synergistically to promote hair growth and rejuvenate the scalp.

Proline: Essential for collagen and keratin synthesis, it enhances the strength and structure of hair follicles.

Panthenol (Vitamin B5): Boosts scalp hydration, improving hair moisture retention, softness, and manageability while promoting a healthier scalp environment.

Methionine: A powerful antioxidant that prevents hair loss and delays the onset of graying, maintaining youthful hair.

Glycine: A critical component in hair growth, it helps reduce hair loss and supports follicle health.

Threonine and Leucine: Moisturize the scalp and aid in collagen formation, improving scalp elasticity and hair vitality.

Arginine: A vital amino acid for keratin production, it strengthens hair strands, reduces breakage, and minimizes hair loss.

Pyridoxine (Vitamin B6): Increases follicle density and stimulates growth, enhancing the length and thickness of hair strands.

Biotin (Vitamin B7): Strengthens hair and activates follicles, promoting thicker, fuller, and healthier hair.

Tyrosine: Supports melanin production, preserving hair's natural color and delaying premature graying.

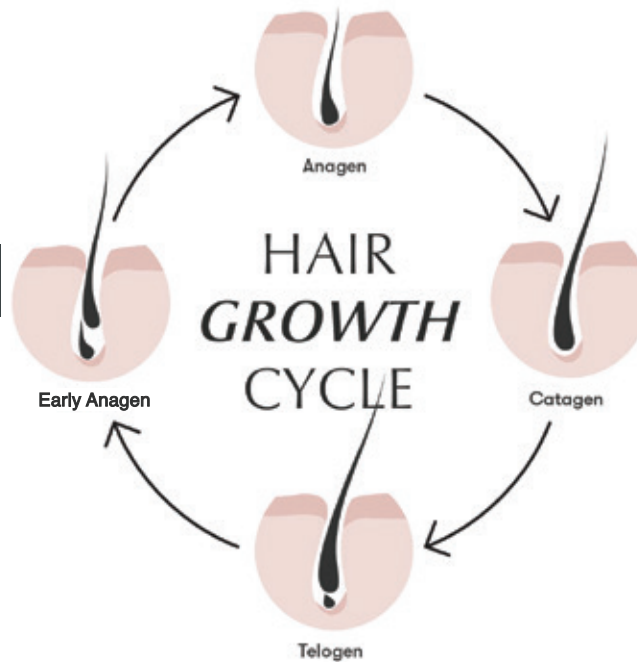
Anagen Phase

(Active Growth)

miR-21 & miR-27b optimize hydration and strengthen scalp barriers, ensuring prolonged and effective growth. Ingredients like Panthenol, Threonine, and Arginine fortify the scalp environment and build strong hair roots.

Early Anagen (New Hair Formation) miR-31 & miR-193b

miR-193b synchronize follicle activity, promoting uniform growth. Pyridoxine, Proline, and Arginine ensure consistent transitions across all phases.



Catagen Phase

(Transition)

miR-21 & miR-146a balance inflammation and support regeneration during this delicate phase. Methionine, Pyridoxine, and Glycine protect follicles and ensure smooth phase transitions.

Telogen Phase (Resting/Shedding)

miR-155 & miR-126 reduce oxidative stress and prepare follicles for the next growth cycle. Ingredients like **Methionine, Threonine, and Biotin** reinforce follicle resilience, minimizing premature shedding.

GROWTH REVIVE SCALP SERUM



*Powered by Hybrosome™
Technology.*

Other miRNAs for all phases:

miR-221/222: These miRNAs are rapidly absorbed and stimulates hair follicle stem cells.

miR-424: Reboots the hair follicle's youthful operating system by enhancing the anagen phase of the hair follicle cycle.

miR-10b: Supports the structural integrity of hair by promoting keratinocyte function and facilitating the incorporation of essential vitamins and proteins into the hair shaft.

miR-92a: Shields the scalp from oxidative stress and environmental damage by enhancing antioxidant enzyme activity and reducing inflammation.

THE DUAL ACT™ [DAY] SERUM

Exosomes derived from newborn calf umbilical cord blood

Atelocollagen: Enhances skin elasticity, retains moisture, and supports skin renewal, fostering a healthy scalp environment.

Caffeine: Improves scalp circulation, supports hair growth, and provides antioxidant protection against oxidative damage.

Panthenol (Vitamin B5): Locks in moisture, improving hair elasticity and soothing the scalp for better skin health.

Magnesium Ascorbyl Phosphate: A stabilized form of Vitamin C that brightens the scalp skin and shields it from free radical damage.

Niacinamide: Enhances microcirculation, boosts mitochondrial energy use, and supports cell proliferation, vital for hair follicle activity.

Sodium Chondroitin Sulfate: A natural anti-inflammatory and moisturizing agent that strengthens scalp health.

Sodium Hyaluronate: Promotes hair growth, improves resilience, and adds softness and brightness to hair strands.

Tocopheryl Acetate: Reduces oxidative stress in the scalp and creates a favorable environment for hair growth.

Safflower Seed Oil: Rich in linoleic acid and ceramides, essential for keratinocyte formation and strengthening hair follicles.

Menthol: Boosts scalp circulation, soothes inflammation, and acts as a carrier for essential ingredients.

Phospholipids: Strengthen hair by forming a protective layer and enhancing ingredient absorption at the hair's surface.

Xylitylglucoside: Prevents water loss, improving scalp and skin hydration for optimal hair and skin health.



SCALP SERUM

Multisource Exosome Integration for Advanced Hair Regeneration.

Bio-engineered exosomes from newborn calf umbilical cord blood, milk, and grapes enhance the dermal papilla microenvironment, reprogram cells, activate follicles, and sustain hair growth.

THE DUAL ACT™ [NIGHT] SERUM

Exosomes derived from milk and grapes

Biotinoyl Tripeptide-1: Strengthens hair roots, reduces hair loss, prolongs the anagen phase, and promotes keratin formation.

Oleanolic Acid: Reduces hair loss by inhibiting DHT production, a key factor in hair thinning.

SH-Polypeptide-1 (TGF-β3): Supports hair follicle renewal and stimulates new hair growth.

Arginine: An essential amino acid in keratin production that promotes cell proliferation and strengthens hair.

Hydrogenated Castor Oil: Deeply nourishes and moisturizes the hair shaft, enhancing strength and resilience over time.

Ligustrum Lucidum Seed Extract: A natural antioxidant with cell-regulating and antiseptic properties that encourages hair growth.

Vitis Vinifera (Grape) Fruit Extract: A powerful antioxidant and moisturizer that strengthens hair and cleanses the scalp.

Keratin-Forming Amino Acids: Includes glutamic acid, glycine, threonine, arginine, valine, leucine, aspartic acid, and isoleucine, all essential for keratin production.

Apigenin: A potent antioxidant bioflavonoid that stimulates hair growth and protects the scalp.



HAIR LOSS TREATMENT PROTOCOL

STEP 1

IN-CLINIC
Microneedling or an
energy-based device
treatment



STEP 2





IN-CLINIC
SCALP HYBRID EXO •
Topical



STEP 3

AT-HOME
GROWTH REVIVE •
SCALP SERUM
Topical



NORWOOD SCALE	MORPHIYA	PROTOCOL
<div>SCALE 1</div> <div></div>	GROWTH REVIVE SCALP SERUM	Apply mornings and evenings for 3 months
<div>SCALE 2</div> <div></div>	SCALP HYBRID EXO GROWTH REVIVE SCALP SERUM	Perform 1 – 2 sessions at 2 – 4-week intervals. Apply mornings and evenings for 3 months
<div>SCALE 3&3V</div> <div></div>	SCALP HYBRID EXO GROWTH REVIVE SCALP SERUM	Perform 2 – 3 sessions at 2 - 4 weeks intervals. Apply mornings and evenings for 6 months
<div>SCALE 4</div> <div></div>	SCALP HYBRID EXO GROWTH REVIVE SCALP SERUM	Perform 3 – 4 sessions at 2 - 4 weeks intervals. Apply mornings and evenings for 6 months

PROTOCOL FOR HAIR TRANSPLANTATION PATIENTS

Optimizing scalp health and hair follicle viability before, during, and after transplantation for superior results.

Before Transplantation

SCALP HYBRID EXO

Perform one session to prepare the scalp and enhance its regenerative capacity.



During Transplantation

EXO BATH PROTOCOL

Immerse hair follicles in a diluted **SCALP HYBRID EXO** solution.

This nourishes the follicles, maintains their viability, and ensures optimal transplantation outcomes.



After Transplantation

SCALP HYBRID EXO

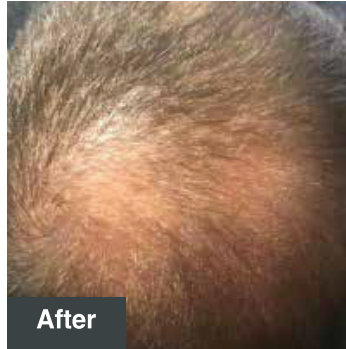
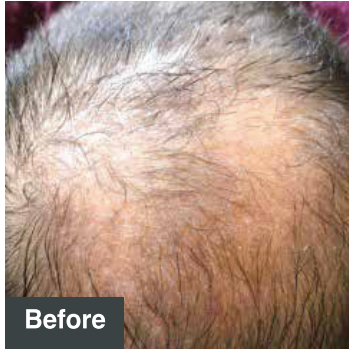
Perform one session to support scalp recovery and boost healing.

GROWTH REVIVE HAIR SERUM DUAL ACT

Apply twice daily for 2 months to promote healing, strengthen transplanted follicles, and encourage new hair growth.



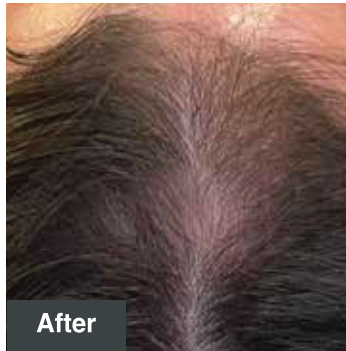
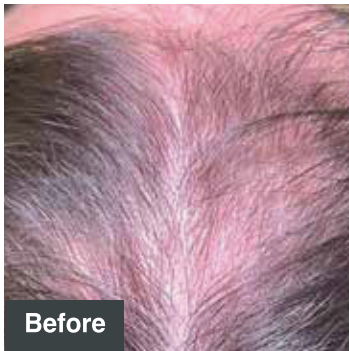
RESULTS



TREATMENT PROTOCOL

GROWTH REVIVE SCALP SERUM

was topically applied twice a day
3 Weeks After



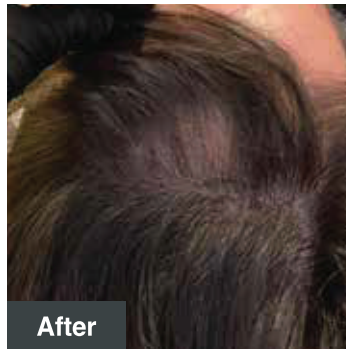
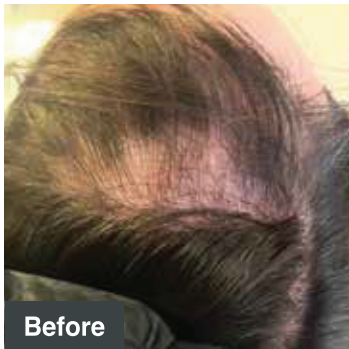
TREATMENT PROTOCOL

4 sessions of RF Microneedling
combined with **SCALP HYBRID
EXO** with intervals of 2–4 weeks.

HEMOCARE ROUTINE

GROWTH REVIVE SCALP SERUM

Courtesy of Dr Anna Peca



TREATMENT PROTOCOL

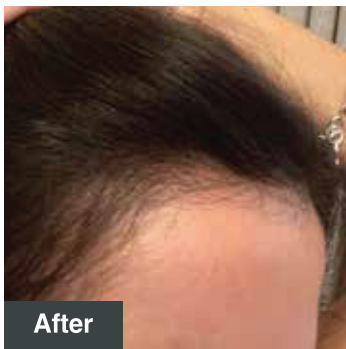
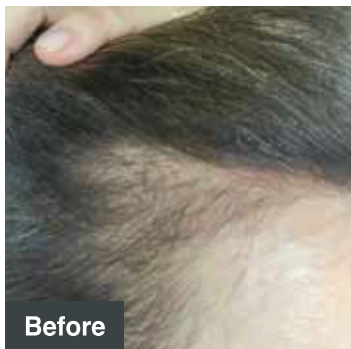
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HEMOCARE ROUTINE

GROWTH REVIVE SCALP SERUM

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RESULTS



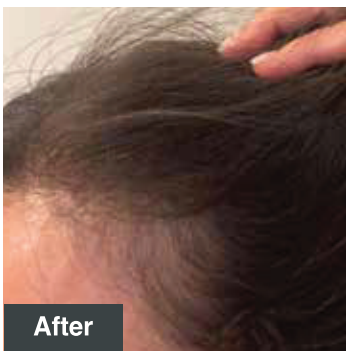
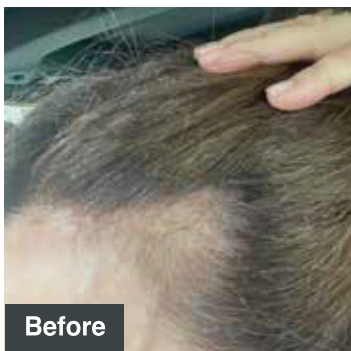
TREATMENT PROTOCOL

44 years old female
**GROWTH REVIVE SCALP
SERUM**
was topically applied twice a day
3 Weeks After



TREATMENT PROTOCOL

20 years old male
**GROWTH REVIVE
SCALP SERUM**
was topically applied twice a day



TREATMENT PROTOCOL

44 years old female
**GROWTH REVIVE
SCALP SERUM**
was topically applied
twice a day
3 Weeks After

MORPHIYA

EXOMORPHIC BIOTECH™

From the London Regenerative Institute:

A transdisciplinary consortium of world-leading scientists and surgeons spearheading the next generation of regenerative treatments.

Bio-Engineered Exosomes:

Powered by patented Hybrosome™ Technology, redefining regenerative possibilities with precision and innovation.

Peer-reviewed Publications:

Supporting scientific credibility with robust, published research.

Unprecedented Results:

Validated through independent third-party clinical trials, setting new benchmarks in efficacy.

Room- Temperature Stabilized Exosomes:

Offering a shelf life of up to 24 months for convenience and reliability.

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REGENERATE AND REJUVENATE FROM WITHIN
BIO-ENGINEERED EXOSOMES
TAILORED FOR HAIR AND SCALP CARE

