



Biocosmed™ -Exosome

INCI:Human Umbilical Mesenchymal Stem Cell Exosomes

Stem cell Exosomes



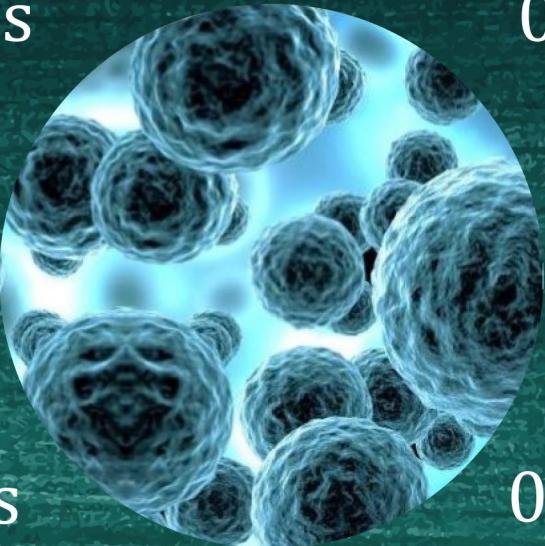
Stem cell regeneration therapy

01. Activate dormant cells

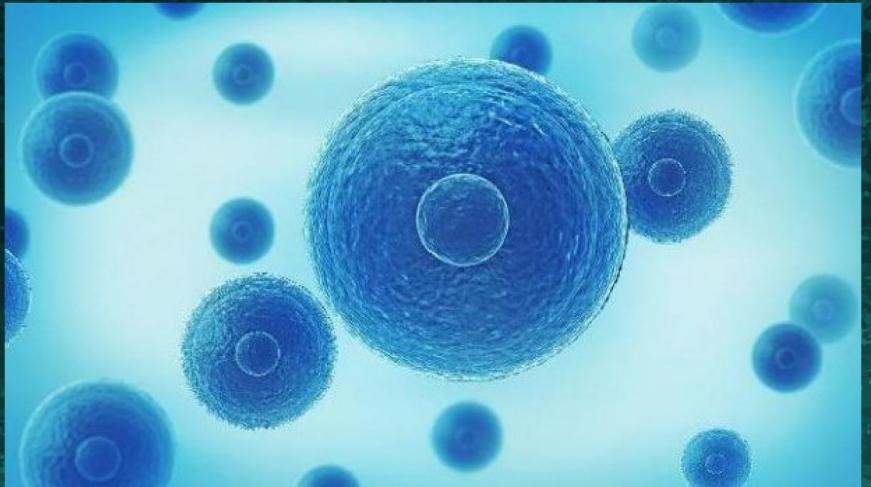
03. Repair damaged cells

02. Replace necrotic cells

04. Regenerate fresh cells



Challenges of stem cell therapy



- **Policy issue**

The Chinese Ministry of Health strictly prohibits the use of medical beauty products

- **Safety issue**

Stem cells can grow and proliferate, which can easily cause inflammatory reactions

- **Storage issue**

After freezing, the effect is lost and needs to be "made and used on site"

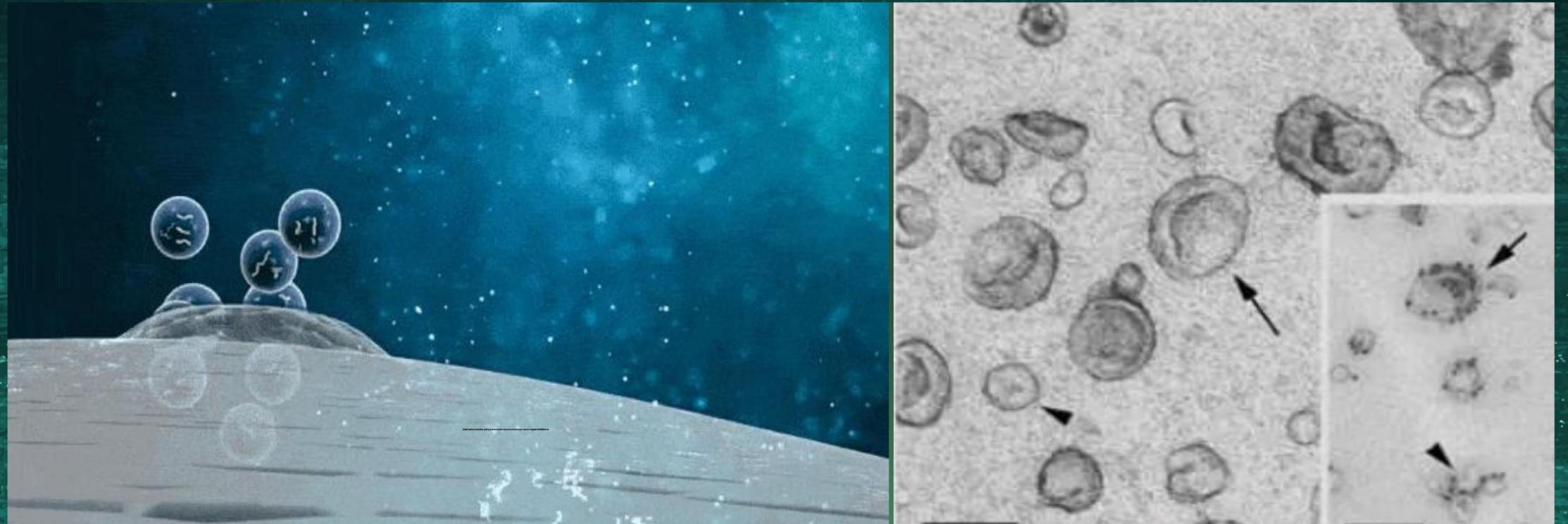
- **Production issue**

Cannot be mass-produced, the effect is unstable every time

What are stem cell exosomes ?

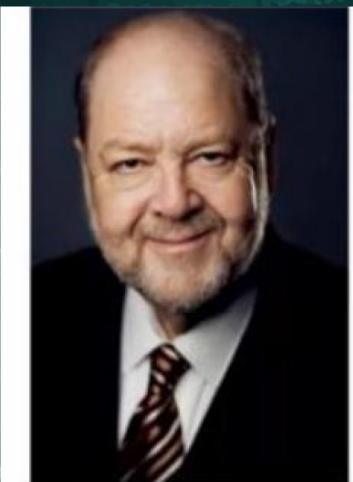
Small bubbles exhaled by cells

Typical tea tray like structure of extracellular vesicles magnified 500000 times



Exosomes: won Nobel Prize

The extracellular vesicle transport system and regulatory mechanism have been granted
Nobel Prize in Physiology or Medicine
in 2013



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Mahmoud
James E. Rothman

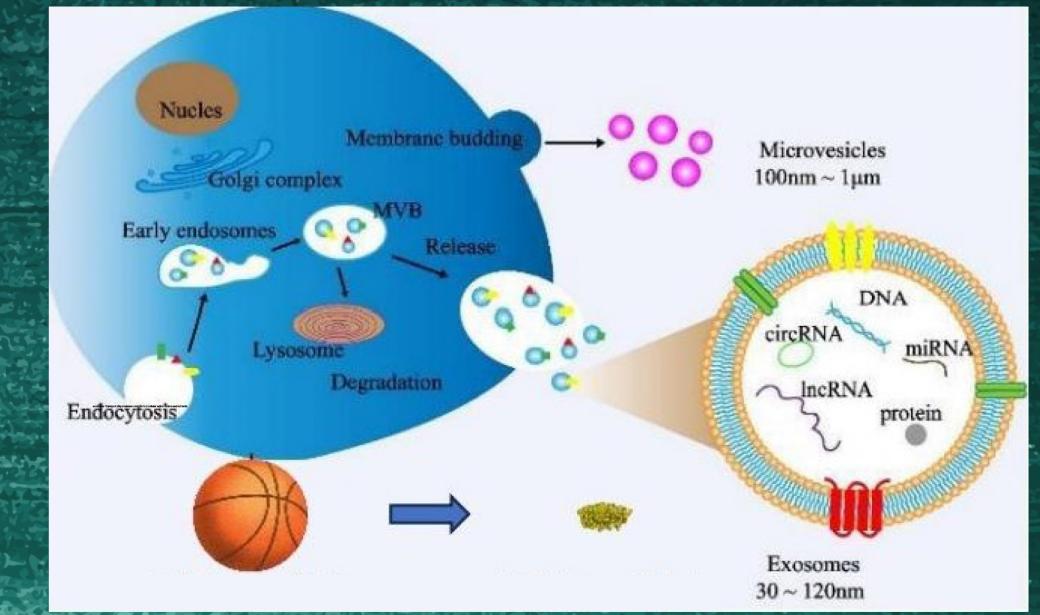


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Thomas C. Südhof

Exosomes
Transport ships between cells:
Rich in cellular active factors and nutrients





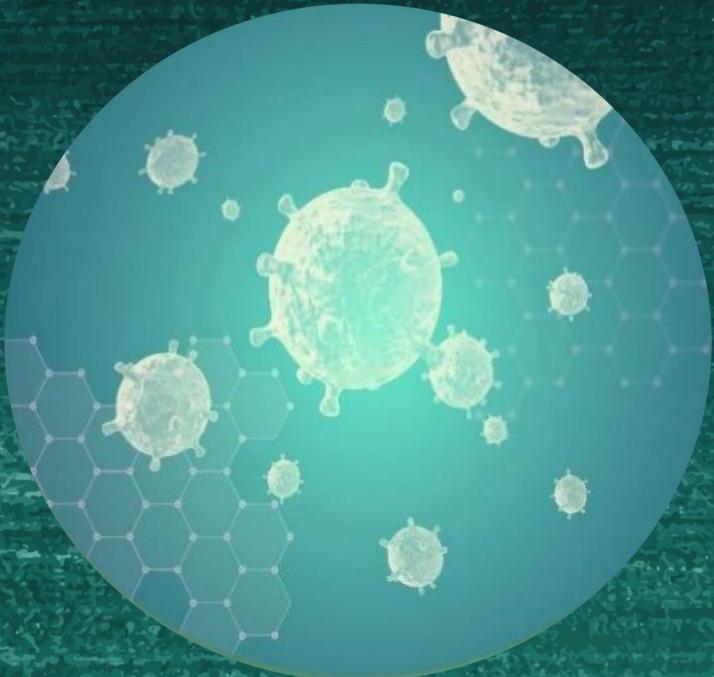
Exosomes: The perfect stem cell replacement therapy

- **Safe**

Not able to grow on its own,
high safety

- **Stable**

Can be frozen/refrigerated
for over one year



- **Productive**

Can produce 100000 high-quality exosomes freeze-dried powder in a single production

- **Recognizable**

Domestic medical institutions actively use our products



Biocosmed™ - Exosome

Medical and aesthetic application of exosomes

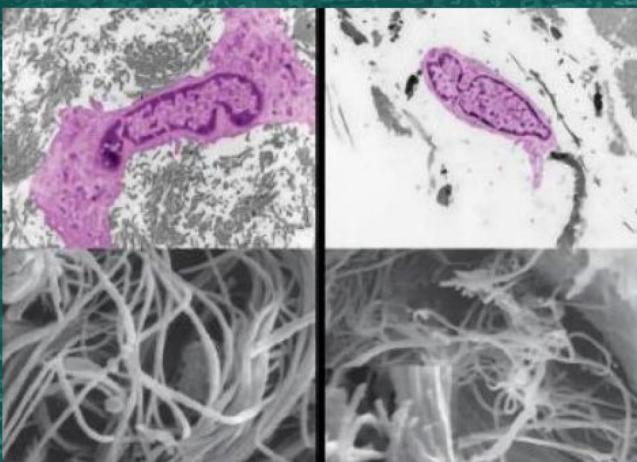


The truth of skin aging



Young skin

Aged skin



Fibroblast atrophy

Collagen fiber rupture

Damage and stimulation to dermal fibroblasts

The content of collagen protein decreases

Skin thinning, sagging, and decreased elasticity result in true wrinkles



Exosomes therapy breaking the repair barrier of irreversible damage

C D Cosmetic Dermatology

**Stem cell-derived exosomes:
A supernova in cosmetic dermatology**

Dr. Ronald Klatz, **President of the American Society for Anti Aging and Regenerative Medicine**, once said that **exosomes** are the next direction of development in stem cell technology.





Exosomes Mesotherapy - Ceiling of Anti-aging



Targeted regeneration, firming and anti-aging

Suitable for problem skin such as aging skin, dry lines, fine lines, facial sagging and roughness, poor skin metabolism, and severely traumatized skin (such as skin wound healing obstruction)

Control inflammation and strengthen the skin base

Suitable for problematic skin conditions such as skin water and oil imbalance, closed acne, enlarged pores, contact dermatitis, rosacea, hormone face, etc

Repair barriers, elastic and moisturizing

Suitable for problematic skin that urgently needs repair, such as sebum barrier damage, dry sensitive and red sensitive skin, sun exposed skin, red blood line dilation, and preoperative and postoperative maintenance in medical beauty projects



Clinical application and effectiveness demonstration of **Exosomes therapy**

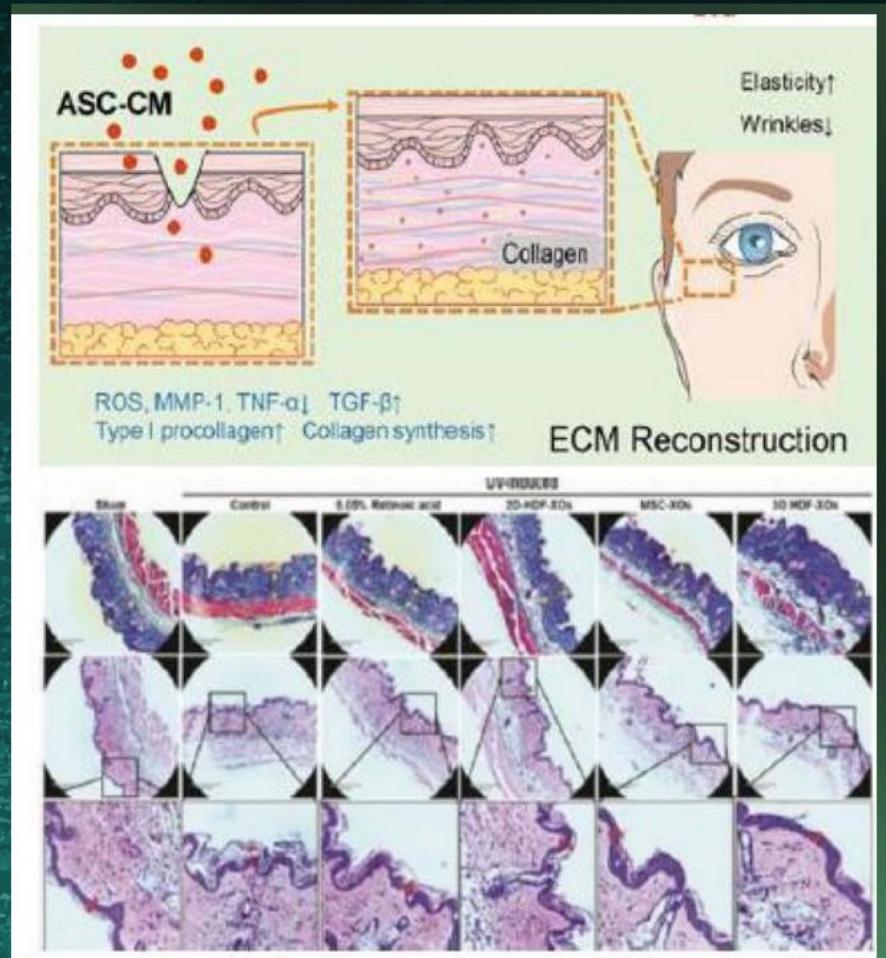




Targeted regeneration, firming and anti-aging

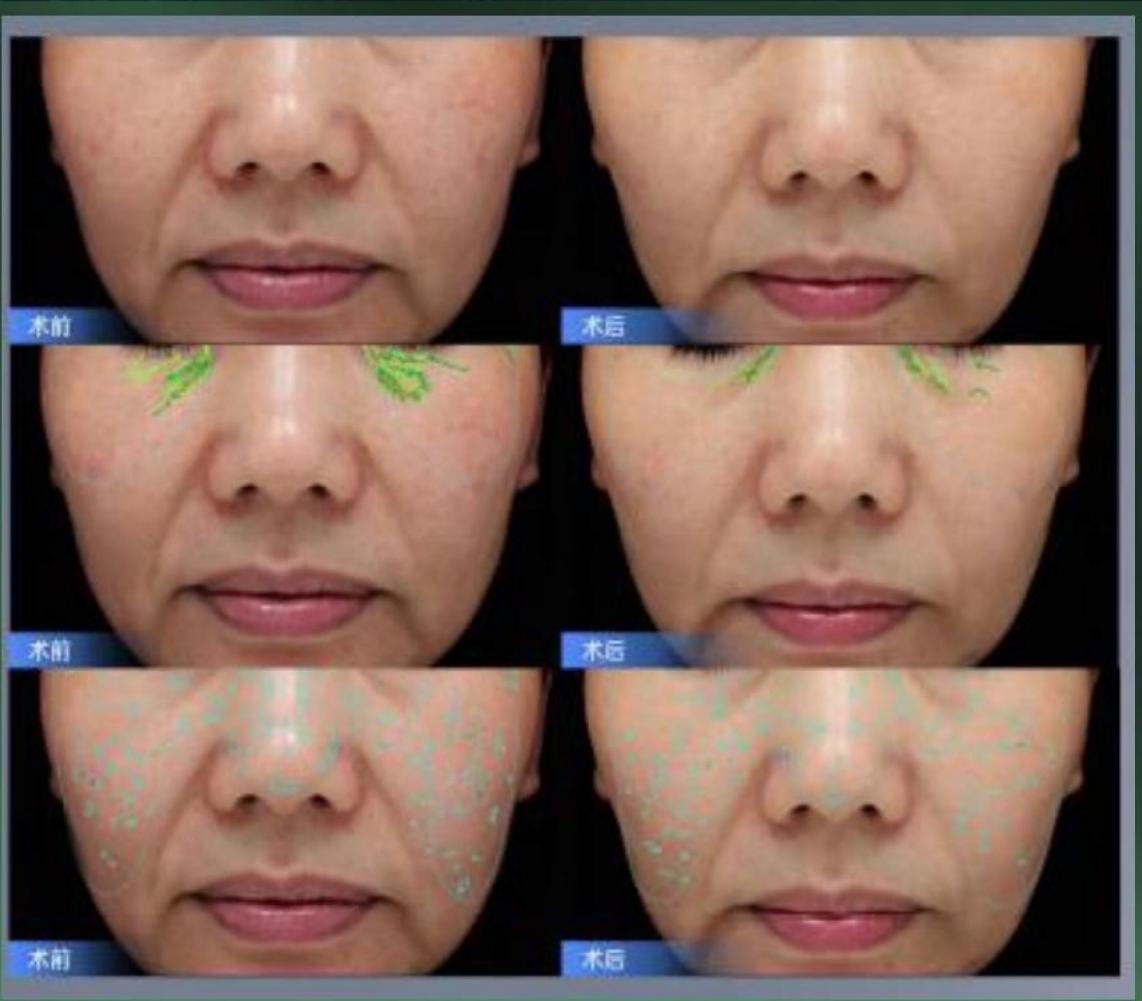
Exosomes can stably stimulate the secretion of synthetic collagen, elastin fibers, collagen fibers, reticular fibers, and other matrices.

The results show that complete skin regeneration can be observed, accelerating wound healing, enhancing skin elasticity, and smoothing aging marks



Targeted regeneration, firming and anti-aging

After using Exosomes:
The fine lines around the eye
sockets have faded, and the
sensitivity of the skin has
been greatly improved.
Reduced facial spots,
improved nasolabial folds, and
increased skin whiteness





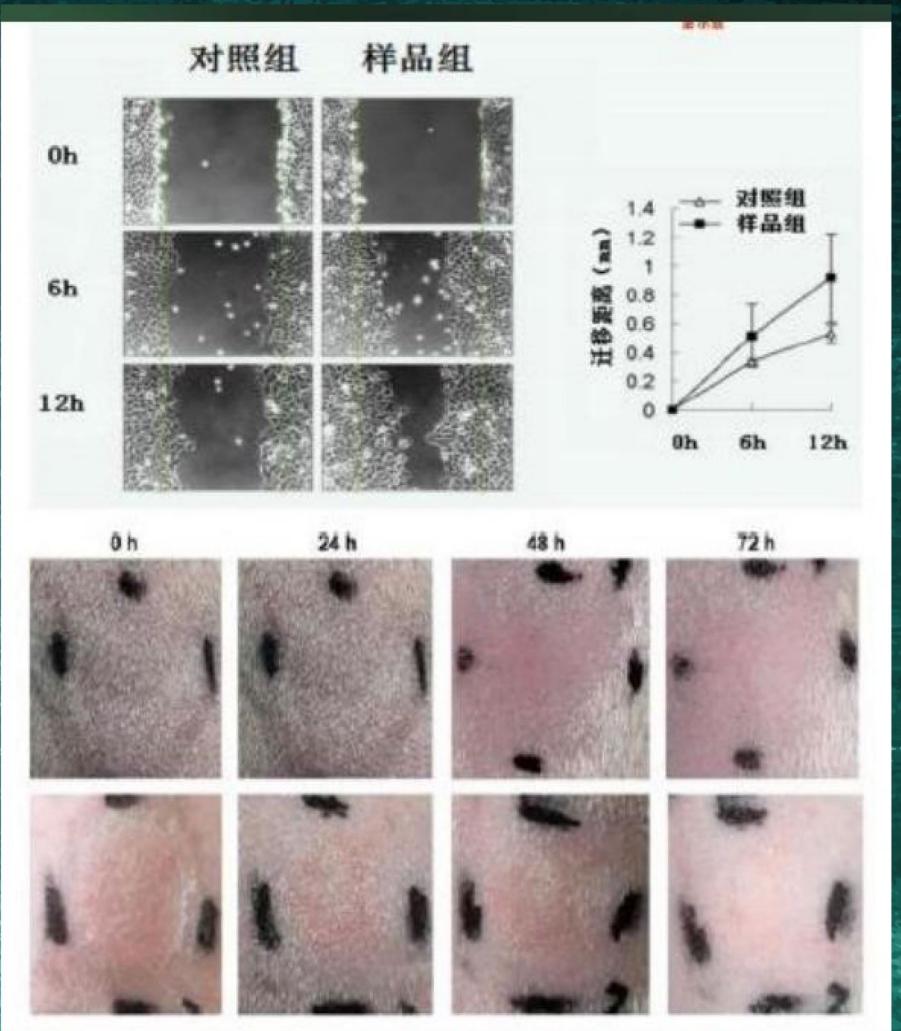
Repair barriers, elastic and moisturizing

Barrier repair

Promote the proliferation and migration ability of epidermal cells

Relieve allergies

After 72 hours of promoting immune regulation and stress response, there was no inflammatory cell infiltration

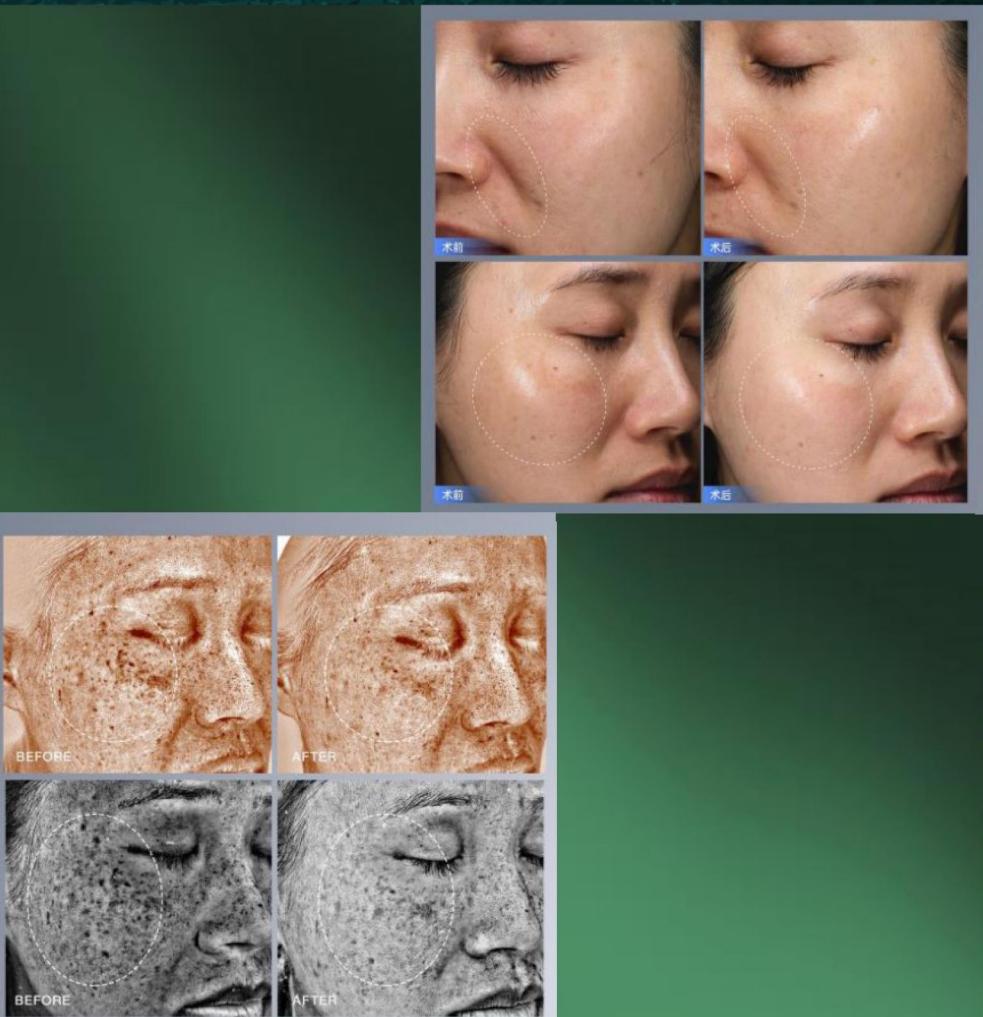




Repair barriers, elastic and moisturizing

After using Exosomes:

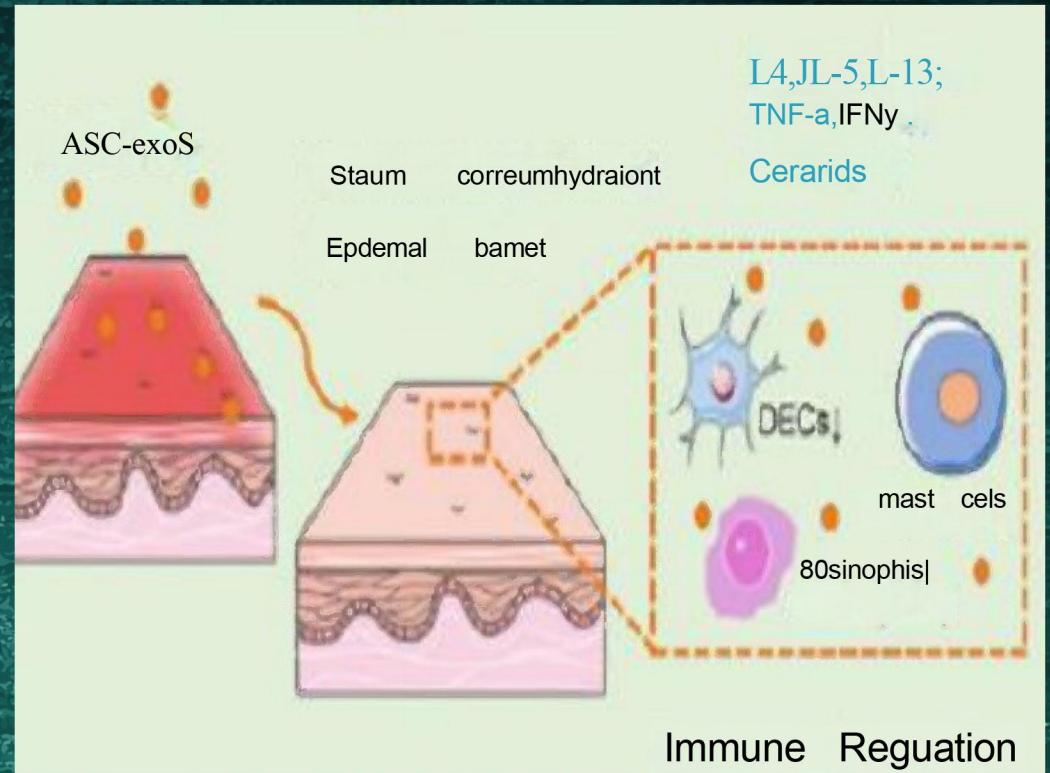
The contour around the eye socket becomes lighter, the skin plumpness and hydration are improved, the facial appearance is enhanced, and the pigmentation and pigmentation are improved. The originally dull skin tone becomes even, bright, and fair. Shallow pigmentation and deep pigmentation have been improved.





Control inflammation and strengthen the skin base

Exosomes can enhance the hydration of the stratum corneum. Maintain stable skin water oil balance, reduce the secretion of inflammatory cytokines, decrease the infiltration of mast cells, and produce ceramides to repair the epidermal barrier, thereby alleviating skin dermatitis.





Control inflammation and strengthen the skin base

Trauma repair, acne scars, bruises,
phototherapy for burns

Decreased skin sensitivity and red
blood streaks

Paired with hyaluronic
acid/collagen to reduce post
injection stress response





Improve hair loss and repair hair follicles



Inject 0.1 milliliters at each injection site, spaced 1 centimeter apart.

The total volume of each injection is 4.5 milliliters, and the total amount of Exosomes is 50 billion.

Perform 6 treatments within 1 month.