BF MEDICAL GROUP

STEM CELLS

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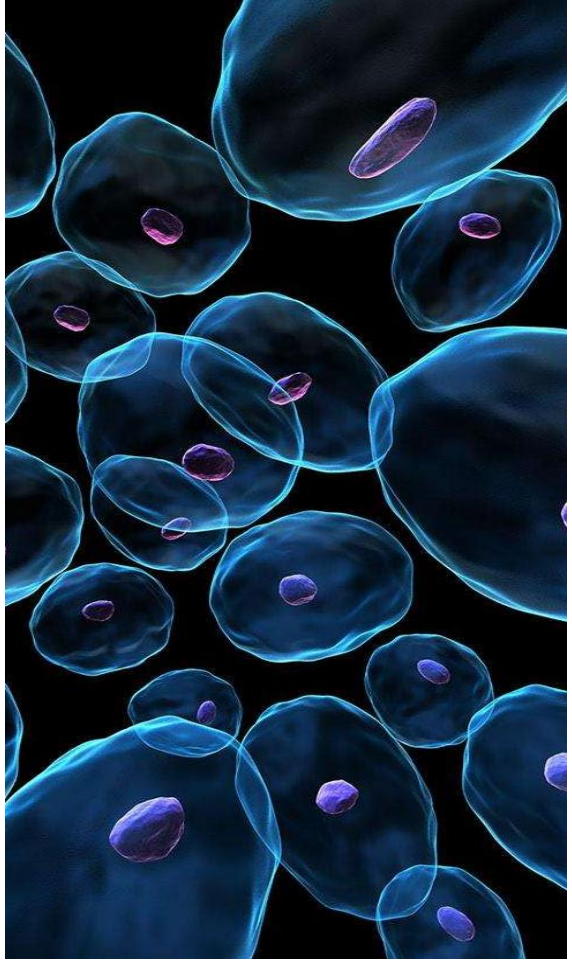
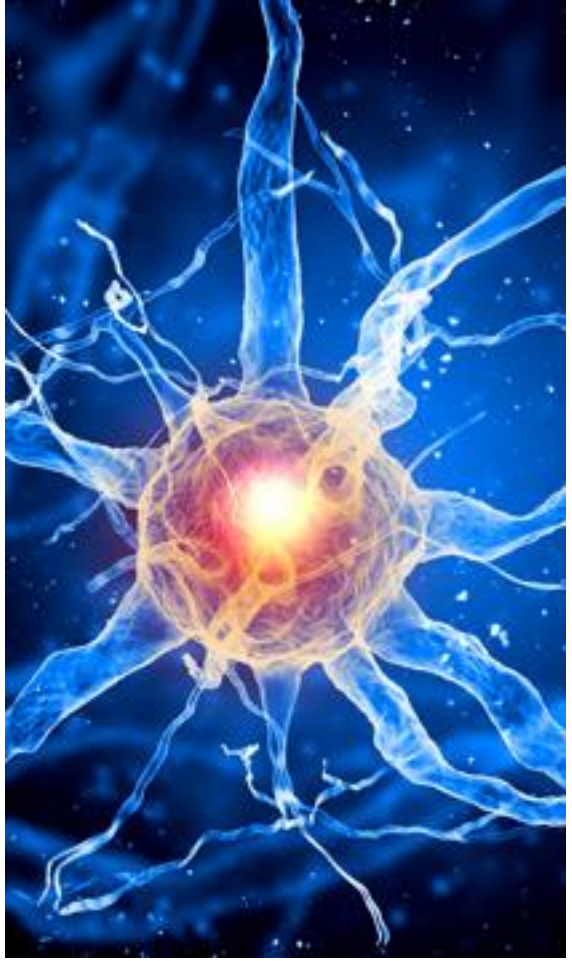
STEM CELL

Stem cells are undifferentiated or partially differentiated cells that can differentiate into various types of cells. Stem cells have self-renewal ability, differentiation ability, and homing effect. Stem cells could eventually differentiate into all of the body's cells types, and no other cell in the body has such ability to generate new cell types. Stem cells are also called as "pluripotent cells".





Self Renewal

Stem cells could divide into one mother cell and another daughter cell, which could help to maintain the stem cell population.

Differentiation

Stem cells could differentiae into various types of cells according to the body's demand.

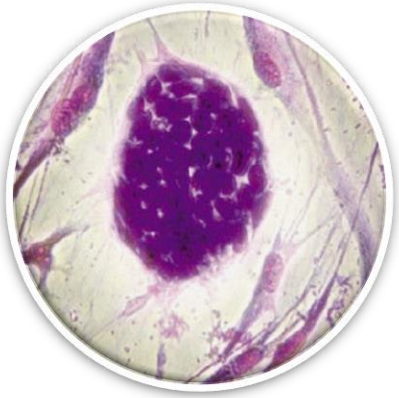
Homing Effect

Stem cells could find and heal the injured part of the body, and regenerate tissue.

National Institutes of Health (NIH) Stem Cell Department

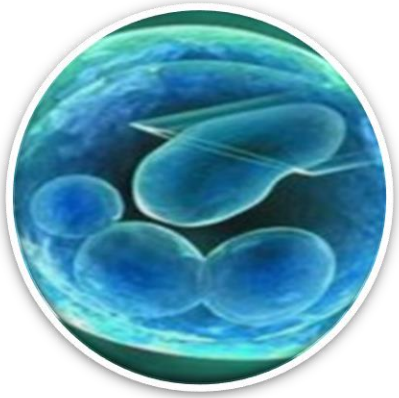
Adult stem cells, such as blood-forming stem cells in bone marrow (called hematopoietic stem cells, or HSCs), Are currently the only type of stem cell commonly used to treat human diseases.

3 representative stem cells



Embryonic stem cells

Stem cells are derived from inner cell mass of a blastocyst. They have rapid cell division ability, self-renewal ability and differentiation ability



Induced pluripotent stem cell

A type of pluripotent stem cell that can be generated from a somatic cell. Could help cells regeneration, disease prevention and recovery.

Adult stem cells

Stem cells found in small numbers in most adult tissues, such as bone marrow or fat. They have self-renewal ability, and have ability to give rise to various cells of the body.

Types of stem cells

Cord blood

Two types of stem cells
Blood diseases treatment

Placenta

Easy to get
Only could get
during delivery

Bone marrow

Safe and long history
Professional technique needed

Fat

Easy to get
Big amount

STEM CELL GROWTH FACTORS

- Processed during stem cell harvesting
- Contains high-efficiency proteins and enzyme combination, which could stimulate the growth of stem cells. And it is one of the essential ingredients to culture stem cells in vitro.
- Stem cell growth factors could help to stimulate the regeneration and growth of stem cells. And could help to build a good inner body environment for the growth of stem cells.

STEM CELL GROWTH FACTORS MAIN INGREDIENTS

Stem Cell Growth Factors

HGF Stem cell growth factors
Stimulate cell vitality and wound treatment

Bone collagen
Keep elasticity

Insulin-like growth factor 1(IGF-I)
Tissue regeneration and growth

Fibronectin
Skin composition, scar recover

Keratinocyte growth factor(KGF)
Stimulate the growth and differentiation of skin cells

Basic fibroblast growth factor(FGF)
Stimulate the skin regeneration,
Ulcer and scar treatment

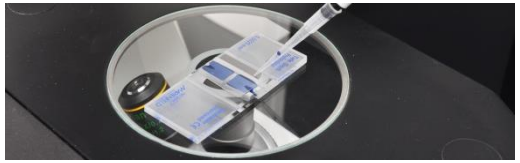
Vascular endothelial growth factor(VEGF)
Stimulate the cell division and growth
Blood flow improvement

Transforming growth factor beta(TGF-ß)
Scar tissue recovery, strengthen immune cells

GLOVI STEM CELL LABORATORY

Certified as a research and development facility by the Ministry of Science, ICT and Future Planning

- Metabolism improvement, prevent metabolic diseases
- Digestion improvement, improve internal secretion system
- Exercise functions improvement, improve nervous system
- Cardiovascular disease prevention, improve immune system
- Circulation improvement, beauty effects.



- Independent stem cell laboratory
- Continuously and securely manage the disinfection facility
- Certified by the Ministry of Science, ICT and Future Planning
- Co-study with medication department laboratory of Korea University
- Professional stem cell researcher

STEM CELL THERAPY PROGRAM

STEM CELL PLASTIC SURGERY

- **Fat Graft** – High survival rate, long-lasting fat graft application
- **Breast surgery** – Body shape improvement, minimize scars after surgery
- **Nose revision** – Reconstruct the surgery displacement and treat the inflammation of surgery failure
- **Epicanthoplasty revision** – Revise muscle tissue on the internal side of eyes, scar revision

STEM CELL THERAPY PROGRAM

- Stem cells injection – Skin problems improvement
- Revise injured cells, cells regeneration, scar improvement
- Stimulate the growth of collagen and hormone, body tissue regeneration
- Revise injured vessels, blood flow improvement
- Stimulate the regeneration of cells, return the body to a younger condition

STEM CELL THERAPY PROGRAM

STEM CELL
HAIR LOSS TREATMENT

- Stem cells injection – improve the thickness of hair shaft
- Revise injured cells, skin regeneration, hair loss treatment
- Inject into dermal layer, and differentiate into hair growth factor, induce hair growth
- Regeneration effect could help to increase the thickness of hair shaft continuously
- Non chemical medication, no side effects

STEM CELL THERAPY PROGRAM

STEM CELL ANTI-AGING

- Stem cells injection – revise injured cells, improve blood circulation
- Stimulate blood cell regeneration, improve immune system and inflammation
- Release the pain around treatment area, expand the range of motion
- Strengthen immune system, anti-aging
- Stimulate the self-recover ability of cells, restore body vitality
- Personalized prescription on the basis of physical condition

STEM CELL THERAPY PROGRAM

STEM CELL DISEASE TREATMENT

- Stem cells injection – Stimulate the growth of joint and cartilage
- Improve the pain of injection area, essential protein and growth factor secretion
- Safe and high efficiency, no immune rejection
- Inject into pancreas, help the normal secretion of pancreatic islets. improvement of diabetes
- Hypertension, hyperlipidemia, cardiovascular disease prevention
- Dermatitis, joint diseases and immune diseases improvement
- Stroke, dementia improvement

HOW TO PROCESS

Consultation

Introduction of stem cell treatment

Body check up

Blood test and screening test

Stem cell harvest

Harvest stem cells

Through professional equipment

Stem cell processing

Process stem cells

Through professional equipment

Stem cells injection

Inject stem cells

Aftercare & consultation

Aftercare and consult with specialist of recovery

STEM CELL THERAPY Q&A

Q Is it okay for older people to have stem cell therapy?

A With the aging process, the amount of stem cells is decreasing. So we recommend older people to have stem cell therapy to restore their vitality.

Q Is stem cell therapy could help to prevent diseases?

A Stem cells have self-renewal and regeneration ability, which could get to the injured area and cure the injury, and prevent the diseases.

Q How long will the effect of stem cell therapy last?

A The lasting effect of stem cell therapy various from people to people, generally the survival period of ste m cells is 9 months according to research.

Q Does stem cell differentiate forever?

A Stem cells injected into body will move to the injured area and differentiate properly, differentiated stem cells will not differentiate again.

Thank you

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