

MESENCHYMAL STEM CELL BANKING

THE FUTURE OF REGENERATIVE MEDICINE

Featuring

CELLTEX WEBINAR HOST

PAUL NEWHOUSE

*Assistant Vice President of Client
Services at Celltex Therapeutics*



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Key Questions for Today

1

What are stem cells?

What are Mesenchymal Stem Cells (MSCs)?

2

What is stem cell banking?

Why is it important to bank your stem cells now?

3

How does the process work?

Celltex's qualifications and accreditations?

4

What comes after banking?

The options after getting your stem cells banked.

What are stem cells?



Stem Cells

Cells that can differentiate (transform) into specific cell types like nerve cells or muscle cells.

We now know that some stem cells can do more than just transform into specific cells types.



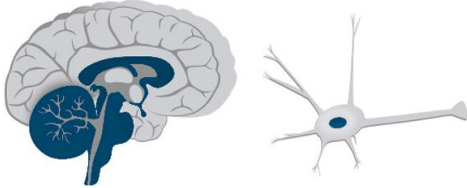
**What are mesenchymal
stem cells?**

What Are Mesenchymal Stem Cells (MSCs)?

MSCs are adult, multipotent stromal cells that can **self-renew** and have the potential to **transform** into a variety of other cell types, including:

Nerve cells

Neurons



Fat cells

Adipocytes



Bone cells

Osteocytes



Muscle cells

Myocytes/tenocytes



Respiratory cells



Cartilage cells

Chondrocytes

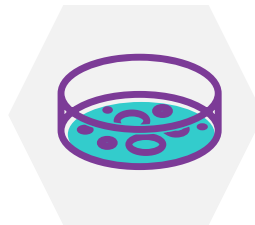


Properties of MSCs



Self Renewal/ Regeneration

Produce more cells where
they are needed



Multipotent

Differentiate into multiple
cell types



Homing

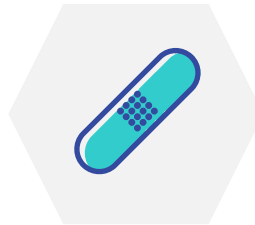
Travel to the sites of injury

Properties of MSCs



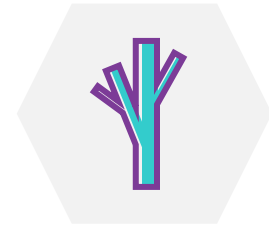
Immunomodulation

Regulate the immune system and reduce inflammation by inhibiting t-cell activity



Trophic Activity

Promotion of cell survival, repair damaged cells, prevention of cell death



Angiogenesis

Development of new blood vessels, improving blood flow, and helping organs get needed oxygen

What are MSCs used for?

➤ Chronic Conditions & Diseases:

❖ Autoimmune Disorders:

Multiple Sclerosis, Rheumatoid Arthritis, Psoriatic Arthritis, Dysautonomia, Lupus, Type II Diabetes

❖ Degenerative Conditions:

Arthritis, Osteoarthritis

❖ Vascular Diseases:

Cardiovascular Disease, Peripheral Vascular Disease

❖ Neurological Disorders:

Parkinson's Disease, Alzheimer's

What are MSCs used for?

- **Acute Injury or Illness:**
 - Orthopedic Injuries
 - Traumatic Brain Injuries (TBI)
 - Surgical Recovery
 - COVID-19 and Pneumonia-Induced Lung Damage
- **General Wellness & Anti-aging**



What is adult stem cell banking?



Adult Stem Cell Banking

The process of storing your own stem cells, obtained at any point in your life, for potential use in the future.

Celltex Stem Cell Banking:

✓ Autologous (one's own):

- Cells are from your own body, reducing the likelihood of rejection
- Assess, home, and respond to your individual body's needs

✓ Mesenchymal (MSCs):

- Healing and regenerative properties
- Differentiate into many cell types
- Home to the site of injury & inflammation

✓ Adipose (fat tissue) derived:

- Easier to obtain
- Less senescent
- More stable for banking
- More MSCs in a smaller sample



**Why is it important to
bank your cells now?**

Maximize Viability by **Banking Now**



When we are young,
we have a greater number
of viable stem cells.



Older cells can still be viable,
they're just not as active and
efficient as younger ones.

You'll never be younger than you are today!



**How does Celltex's
process work?**

Celltex Stem Cell Banking Process:

1. Enrollment

- Online via website or digital forms

2. Qualifying blood work

- Screening for communicable diseases
- Completed at LapCorp

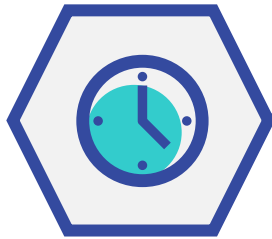
3. Extraction

- Network of extraction partners across the country
- One small fat tissue extraction
- Your cells are overnighted to our lab in Houston

4. Bank creation

- Cells undergo our quality and sterility testing to ensure we have a viable and uncontaminated sample
- Isolated and cultured to the hundreds of millions for a truly potent and pure bank of MSCs
- Cryopreserved at -300°F

This Takes Time



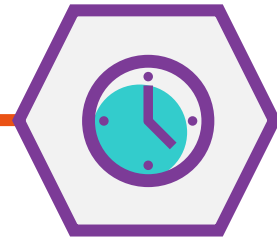
1-2+ Weeks

To schedule blood work
and extraction



5 Weeks

To create your master cell
bank



3 Weeks

To culture your cells when
therapy is needed



**What are Celltex's qualifications
and accreditations?**



Highest Quality Standards

Zero Adverse Events
10k+ therapies

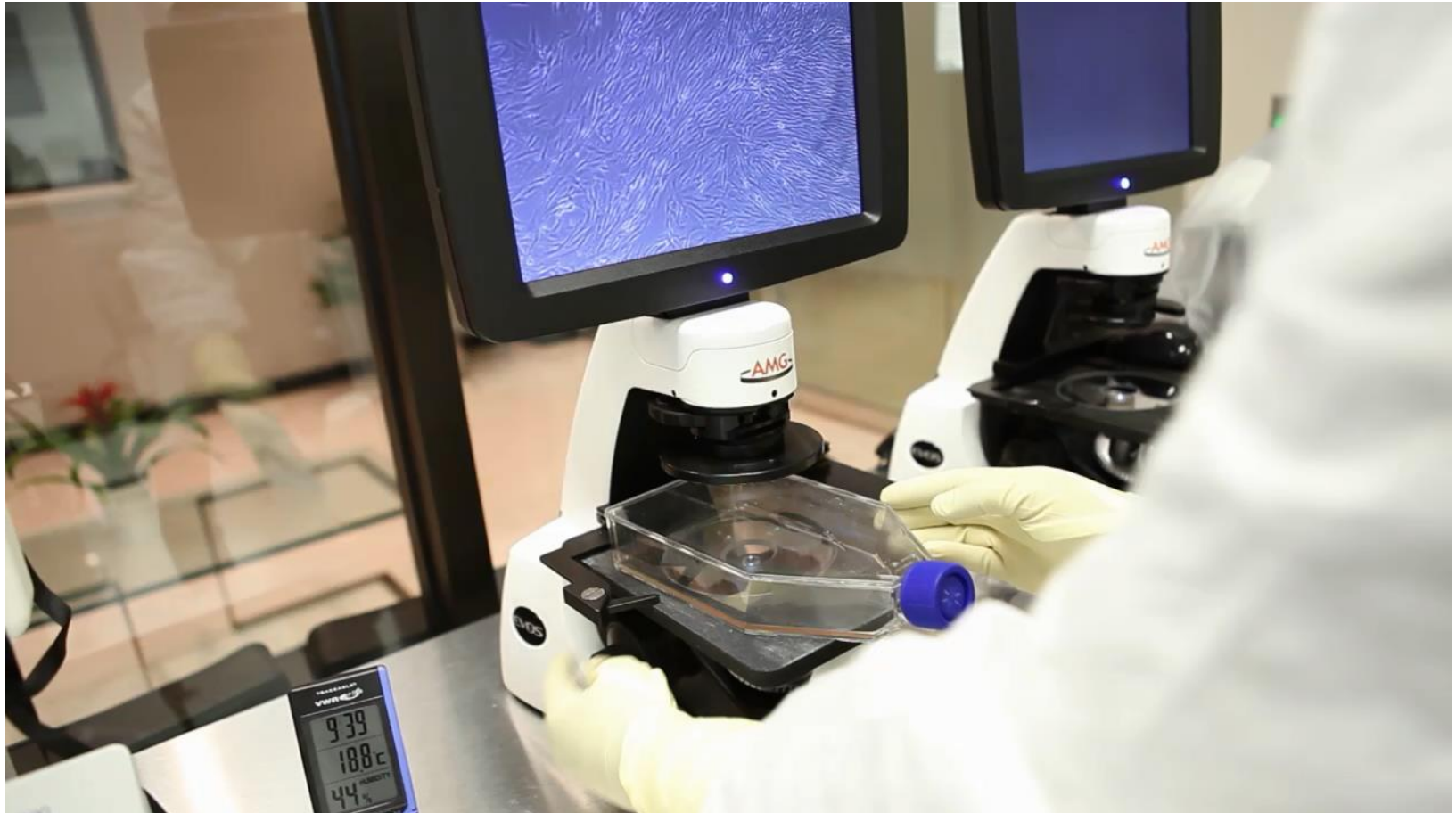
10+ Years of Experience
Founded in 2011

FDA Compliant Lab
In Houston, Texas

cGMP Laboratory
ISO Class 7 clean room

Safety and efficacy are our top priorities

A Look at Our Laboratory





What comes after banking?

What Comes After Banking?

Security

Your MSCs **can be stored indefinitely** – for the rest of your life.

If you have no immediate need for your MSCs, they'll be **securely cryopreserved in our Houston-based FDA cGMP-compliant laboratory and always ready for use**. Your need could be in 6 months, 6 years, or 16 years.

Options

What about stem cell **therapy**?

Access

What does **the future** hold for medicine, science, and regulation?



Be Prepared with Your Stem Cells

Stem cells can be helpful in case of emergencies, such as:

Stroke

TBI

Accidents

Lung Damage

Heart Attack

In this case, it's beneficial to have an emergency-use bank created.

Cells are cultured in advance to a therapeutic dose, cryopreserved, and ready when you need them in 24-48 hours.

Pharmaceuticals & Surgeries



Natural



CELLTEX®

Effective



More cells. More possibilities.

What else would you like to know?

Please submit your questions via Q&A

Q&A



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Is stem cell banking right for you?

Scan the QR code to find out.



Learn more about banking:

CelltexBank.com/Plan



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TALK TO OUR TEAM

webinar@celltexbank.com

The First Step?

Ask about banking your cells with Celltex.



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NEXT WEBINAR

Wednesday, Oct. 27th @ 11am CT

Who Says You Have to Feel Your Age?

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