

The hope for millions of patients  
lies in the advancement of stem cell technology;  
and the realization of this hope  
is tied deeply into the efforts of Beike Biotechnology.

## About Beike

Beike is a bio-technology company that was founded with capital from Beijing University, Hong Kong University of Science and Technology, and Shenzhen City Hall. It is also supported by the China State National Fund. Research and clinical work comes as a collaboration of Beijing University, Hong Kong University of Science and Technology, No. 3 Army Medical University, Zhongshan Medical University, Guiyang Medical College, and Zhengzhou University. The company has been approved as a hi-tech enterprise of Shenzhen. Throughout all collaborating laboratories, Beike has over 60 Ph.D. researchers focusing on stem cell research. The company was formed in January of 2005 after the collaborating scientists felt comfortable enough with their years of research and clinical experience to begin treating patients with stem cells on a commercial scale.



The management, researchers, and doctors have been focused on stem cell and other biomedical research since 1999 and have been treating patients with stem cell injections since 2001. Beike has treated over One thousand patients with stem cell injections for diseases like Alzheimer's, Ataxia, Autism, ALS, Brain Trauma, Cerebral Infarction, Cerebral Hemorrhage, Cerebral Palsy, Multiple Sclerosis, Diabetic foot/arteriosclerosis, Static Encephalopathy and Spinal Cord Injury.

Beike partners with blood banks in each city that their labs reside in, to certify their stem cells are pure and disease free. Beike employs a double check system, which consists of their quality control technicians checking a second time for infectious diseases before beginning the cultivation process. Beike is one of the leading expert groups in China for separating, purifying, nurturing, and multiplying embryonic, fetal, adult, and most importantly, cord blood stem cells. Beike has been able to grow human organ cells as well, which will pave the way for future cures.

Beike's greatest strength and what differentiates it from other research initiatives is that they specialize in clinical applications. There are a lot of patients in countries around the world who could have a better quality of life and even extend their lives with the technology available but don't have the chance because of politics, religion and bureaucracy. Beike's goal is to help those people. Beike takes the most advanced biotechnological research in the world, specifically stem cell therapy, and applies it clinically at a rapid pace.



Beike is concentrated on Rigor, Creativity, Care and Dedication and is devoted to becoming a world leader through the development of a global network and platform for R&D and clinical application of stem cell technology. Beike's Team of scientists and physicians were one of the first to successfully apply stem cell medical engineering technology to clinical treatment for neurological and vascular diseases.

## Technological foundation

- The technological team of Beike is able to conduct the isolation and purification, amplification and induced differentiation of stem cells into a number of tissues.

- Beike has a comprehensive technological system of stem cell basic research, laboratory preparation and clinical application with strict quality and safety controls.

- Beike has applied for two national patents of invention, set up a number of research items, and published nearly a hundred thesis.

- Beike has established close cooperation with a number of universities both at home and abroad which include Stanford University (US), Imperial College of London University (UK), University of Debrecen (Hungary), Goteborgs Universitet (Sweden), Hong Kong University of Science and Technology, Beijing University, Shandong University, and Zhengzhou University, which amplifies Beike's technological capabilities many fold.

The core technological team of Beike has today established a consummate system of technological research.

## Major research areas of Beike's clinical application of stem cell technology

### Central nervous system:

Injury diseases: such as spinal cord injury and traumatic brain injury

Hereditary diseases: such as ataxia

Degenerative diseases: such as multiple sclerosis and multiple system atrophy

Developmental anomaly: such as cerebral palsy

### Musculoskeletal system

Femur head necrosis

### Endocrine system

Diabetes and its complications: such as diabetic foot and peripheral neuropathy

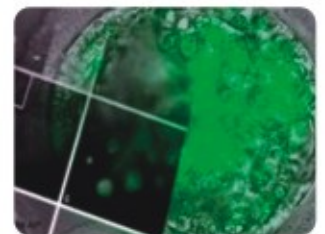
### Cardiac system

Myocardial infarction and related problems

### Ophthalmological System

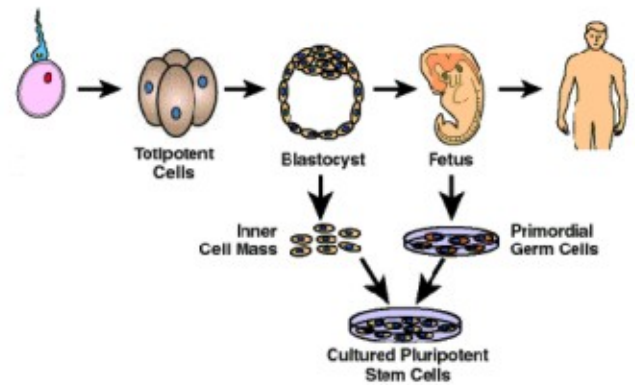
Retinitis pigmentosa

Optic nerve atrophy



## About Stem Cell

Stem cells are relatively undifferentiated cells that can develop into different/any kind of cell in the human body. Most cells have a specific function such as liver cells, skin cells, brain cells and so forth and once they have taken on this function, in a process called differentiation, they can't be adapted for any other function. Stem cells, however, have not gone through the differentiation process. Stem cell research is the most active field among cell engineering.



Stem cell medical engineering technology is also called regeneration medical technology. It's most notable characteristic is that it can reproduce a kind of totally new, normal and even younger cell, tissue or organ. Thus, people can use their own or someone else's stem cells or stem cell derived tissues or organs to replace the ill or aging tissue and organs for the treatment of a wide range of diseases, such as cerebral palsy, leukaemia, presenile dementia, ataxia, diabetes, multiple sclerosis and spinal cord injury, which can not be treated by traditional medical methods.

## Basic Information about Beike Stem Cell Treatment

Beike exclusively utilizes Umbilical Cord Stem Cells. A baby's umbilical cord is a rich source of stem cells. These cells are the basic building blocks of the human body and are able to transform into other types of cells, such as bone, heart, muscle, and nerve cells. Our transfusions consist of three subsets of stem cells known as CD34+, CD133, and Mesenchymal stem cells. CD34+ and CD133 cells have been shown in numerous studies to be prone towards becoming tissue.



Mesenchymals have been found to be inclined to become numerous types of cells, including but not limited to chondrocytes (a type of cell critical to tissue renewal, particularly cartilage), liver cells, kidney cells, and neurons. Lab tests have also indicated that as Mesenchymal stem cells combine with other cells (such as CD34+ and CD133) they will boost the transformation process of other stem cells. These Mesenchymals also appear to be able to conduct repairs in relation to vascular disorders within the brain, ocular areas, and throughout the body including but not limited to the heart, kidney, and pancreas.

## Method of Treatment:

Beike utilizes a two pronged treatment approach: stem cell injections and rehabilitation. Typically stem cell transplants are taken from 5 separate umbilical cords, include five injections of about 10 million stem cells each over a 25-30 day period. With each injection, doctors also give patients a transfusion of Neural Growth Factor, which encourages the stem cells to find their targets and transform into new neurons. With patient consultation and doctor approval, there is the opportunity to undergo more injections (it must be noted that more injections will increase the hospital stay period of the patient as well as expense). Doctors use two methods of injecting stem cells and decide which method is best for a patient. A combination of both may also be used.



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1. Intravenous Transfusion: injection of stem cells via an IV into the bloodstream.
2. Lumbar Puncture: injection into the cerebral spinal fluid via an epidural catheter placed in the lumbar region of the spinal column.

In addition to these injections, Beike also offers the adult clients the opportunity to have a bone marrow transplant during their stay specifically for patients with spinal cord injury. This procedure involves removing the patient's own bone marrow, culturing, expanding, and purifying the stem cells from it and then transfusing it back into the patient. Some patients choose to do this procedure as autologous stem cells (derived from the patient's own marrow) have been shown to be very safe and effective. Doctors help patients decide if this procedure will be helpful to their progress once they arrive for treatment. This treatment is optional and does cost an additional amount of money per procedure done.

The other treatment approach is through rehabilitation. Between injections, patients undergo a six day-a-week rehabilitation program. This program consists of a tailored mix of physical therapy, occupational therapy, speech therapy, acupuncture, manipulation, ADL (activities of daily life) education, and Chinese massage. Not all of these therapies are right for all patients, and some diseases/injuries require very specialized rehabilitation programs. An on-site evaluation is done upon the arrival of the patient and the rehabilitation specialists will determine what the right combination will be.



## Treatment Facilities:

Beike operates stem cell treatment facilities at a wide variety of locations throughout China. Each of these facilities offers the same basic treatment. The entire floor in the hospital is dedicated to a 'Stem Cell Ward' for patients from overseas only. After discussing with the prospective patient and Beike doctors, a decision is taken as to which facility is best suited to the needs of the patient.

**Hainan:** Hainan Nongken General Hospital is located in the beautiful tropic city of Haikou. The facility in Hainan is brand new and started receiving patients in the middle of October 2007. The hospital can treat 13 patients at a time for stem cell treatment.

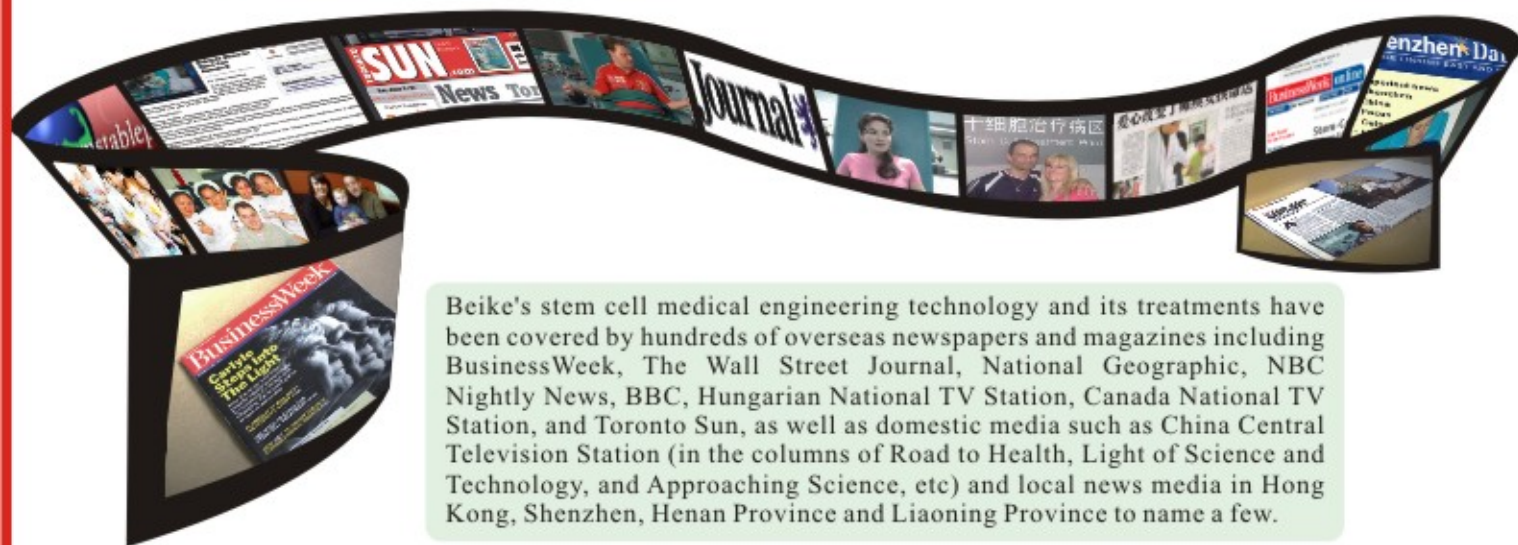


**Fuzhou:** Fuzhou Air Force Hospital is located in Fuzhou, the political and economic center of Fujian province. The city is located in the eastern coastal region directly opposite of Taiwan and has a population of about 6 million. The Beike facility at Fuzhou Air Force Hospital has 9 rooms available for stem cell treatment.

**Hangzhou:** The facility is located at XiaoShan Hospital. Hangzhou is a one hour train ride situated outside of Shanghai. The city is divided by a river, with the hospital centered in the industrial and economic sector of the city. The stem cell ward can treat up to 24 patients at a time.



**Foshan:** The First Hospital of Foshan is located about one hour outside of Shenzhen. The location it is also quite close to Hong Kong. This Hospital focuses on treating Chinese patients, but foreign patients can also be accepted if interested in this facility.



Beike's stem cell medical engineering technology and its treatments have been covered by hundreds of overseas newspapers and magazines including BusinessWeek, The Wall Street Journal, National Geographic, NBC Nightly News, BBC, Hungarian National TV Station, Canada National TV Station, and Toronto Sun, as well as domestic media such as China Central Television Station (in the columns of Road to Health, Light of Science and Technology, and Approaching Science, etc) and local news media in Hong Kong, Shenzhen, Henan Province and Liaoning Province to name a few.

**Log on** <http://www.nbc-2.com/articles/readarticle.asp?articleid=14343&z=3&p>

## Beike is an international leader in the clinical application of stem cells

Read some of the personal experiences of what patients have had to say about the treatment.



<http://www.stemcellschina.com>  
<http://www.stemcellschina.com/blogs/biggs/>  
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<http://www.stemcellschina.com/blogs/Anthony/>

Among the numerous competitors at home and abroad, Shenzhen Beike Biotechnology Co. Ltd., has distinguished itself as the leader in the international field of stem cell application. Numerous incurable diseases have been treated with Beike's stem cell technology, which has attracted hundreds of foreign patients from more than 40 countries who come to China to receive the stem cell treatment.

Beike strives to make their caring attitude show through every aspect of their words, their deeds, their services, and their selection of partners. The locations of the cooperative partners include US, UK, Hungary, Sweden, Romania, India, Canada, Thailand, Australia and Switzerland.

Beike Biotech - ENS is an extension of the joint venture establishment in India between Shenzhen Beike Biotechnology Co. Ltd. and Ezee Nursing Solution Pvt. Ltd (ENS). Both share the same vision in aligning themselves strategically in order to use their synergies for spreading the knowledge on stem cell treatment and dedication to improving the quality of life of their patients. In addition to their relentless focus on adhering to scientific standards and basing protocols on accepted theories, they place utmost importance on challenging the accepted theories and accumulated knowledge to make the breakthroughs that are essential to bringing the best treatments to their patients.

ENS – an ISO registered company based in New Delhi India, maintains high standards by employing professionally motivated individuals who are understanding and focused on specific client needs. The team of medical professionals and marketing consultants follow a well-established and documented practice dedicated to improve the quality of the lives of their patients.

Beike Biotech - ENS is passionate about taking care to accelerate their patient's recovery as much as possible and to do everything in their power to achieve the goal in providing tomorrow's treatments today.

For centuries it was common knowledge  
that the world was flat.

For centuries it was common knowledge  
that the central nervous system could not repair itself.

We now know that these are not true.

Thanks to those willing not to accept the status quo



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