

# Celebration

celebrating life together

Issue 1 2013

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**3** Boy's Stem Cells  
Successfully Treat  
Cerebral Palsy

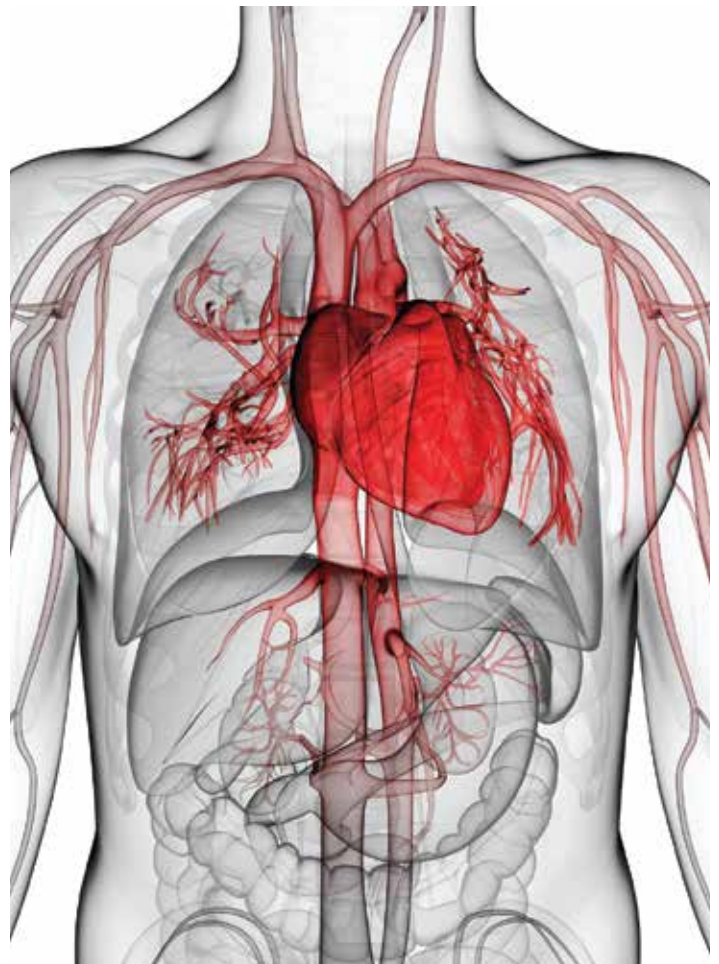
**4** New Hope  
For Psoriasis

**6** Face To Face With  
Yeo Yann Yann



## Bone Marrow Cells Outperformed By Umbilical Cord Cells For Repairing Damaged Hearts

A study published this month by researchers at the University of Toronto and Toronto's Princess Margaret Hospital has shown that cells derived from the umbilical cord, "Human Umbilical Cord PeriVascular Cells" (HUCPVCs), are more effective in restoring heart function after an acute myocardial infarction (in common parlance, a heart attack) in a pre-clinical model than a similar cell population derived from bone marrow. At present, mesenchymal cells, known to release a series of factors that stimulate tissue repair, and control inflammation, are most commonly harvested from bone marrow. But the new study, headed by Dr. Armand Keating, now suggests that umbilical cord cells outperform bone marrow cells in improving heart muscle function. The study, released in Cell Transplantation this month, demonstrates that the cells originating from the tissues surrounding the blood vessels of the human umbilical cord, also known as "Wharton's Jelly," outperformed the current gold standard for stem cell therapies for repairing damage to heart muscles, after an induced heart attack when injected directly into the affected area. Dr. Keating calls the HUCPVC results "statistically and significantly better" than bone marrow cells. Standard heart function tests measured the effect of the therapy after the cells were injected. The HUCPVC cell therapy was twice as effective at repairing damage to heart tissue than no treatment. "We are hoping that this translates into fewer people developing complications of heart failure because their muscle function after a heart attack is better," states Keating. Keating and his team will now complete additional pre-clinical studies, and hope to begin clinical trials of the HUCPVC cells on patients within 12-18 months. Keating is also interested in conducting further research with the umbilical cord cells to overcome the damaging effects of chemotherapy on heart tissue, an agonizing problem for some patients who may be cured of their cancer only to confront heart failure as a result of treatment. Apart from heart disease, clinical trials with mesenchymal cells are conducted around the world to investigate the treatment of a variety of diseases, including a serious complication of bone marrow transplantation called graft-versus-host disease, autoimmune disorders, neurological diseases and tissue injury arising from lung and liver disease. Today, more than 250 clinical trials are currently being conducted worldwide using mesenchymal cells.



## Words from MD

More than a decade of dedication, innovation and perseverance in the stem cell industry, CryoCord has recently moved to a new building; to a place where we can finally call home. The all new office and laboratory integrated all our operations under one roof and set CryoCord to be the largest and most comprehensive private stem cell facility in South-East Asia.

CryoCord's new corporate building, located within Bio-X Centre in Cyberjaya, is purposely designed to cater for the highest standard expected in the cells processing industry. Its state of the art laboratory is the first bio-medical lab in the region which is centrally monitored and controlled around the clock by a custom built SCADA system. The long awaited new laboratory houses 8 Class 100 Cleanrooms that offer much flexibility together with greater processing and storage capacity.

Moving to the new lab was a huge challenge and responsibility. Regulatory, safety and cell viability aspects are closely studied and monitored by foreign experts during the shifting process.

CryoCord has over the years, put in enormous effort to educate the public on the benefits of various types and sources of stem cells, including the very much sought after Mesenchymal Stem Cells (MSCs). The response we received to date is indeed very encouraging, leading us to anticipate greater growth in worldwide interest for MSCs storage and applications.

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**CryoCord to be the largest and most comprehensive private stem cell facility in the South-East Asia.**

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Along with our continuous expansion, CryoCord has acquired a stem cell bank known as the StemTech International Sdn. Bhd., which was once a subsidiary of the Bursa listed TMC group. There are many strategic implications in this move, but most importantly is to strengthen our position as a market leader in the industry. With this acquisition, we are the only group that holds 2 out of the 4 licences issued by the Ministry of Health.

On behalf of the team at CryoCord, I would like to take this opportunity to thank you for your choice in signing CryoCord as your preferred stem cells service provider. I promise you that CryoCord will do its best to uphold its strong reputation as an ethical and responsible player in the industry. With this, I very much look forward to maintaining a strong relationship with you in the years to come.

**James Then**  
Managing Director







## Boy's Stem Cells Successfully Treat Cerebral Palsy, Awaken Him From Vegetative State

Doctors were able to successfully treat a 2.5-year-old boy who had suffered from cardiac arrest and brain damage, putting him in a vegetative state, using his own cord blood containing stem cells, a press release said.

At the end of 2008, the young boy, who was only identified as L.B., suffered cardiac arrest and subsequently became brain damaged and paralyzed in a vegetative state. The child was diagnosed with infantile cerebral palsy, a condition doctors at Catholic Hospital Bochum, part of the University Clinic of RUB in Germany, didn't know how to treat. However, the boy's parents didn't want to give up on him. They suggested using stem cells from cord blood that was frozen when he was born.

Doctors administered the blood nine weeks after the boy went into cardiac arrest and studied how his recovery progressed. Within two months, his spasticity decreased significantly. He was able to see, sit, smile, and speak simple words. Four months after they administered the blood, he was eating independently, walking with assistance and forming sentences of up to four words.

The results were very contradictory to what the doctors expected. According to the doctors, a child's chances of survival after such severe brain damage and enduring 25 minutes of resuscitation was believed to be six percent. They say that months after the brain damage, children normally show only small signs of consciousness.

"The prognosis for the little patient was threatening, if not hopeless," the medics said in the release. However, his

recovery proved otherwise and the medics were stunned. "Of course, on the basis of these results, we cannot clearly say what the cause of the recovery is," Dr. Arne Jensen, co-author of the study, said. "It is, however, very difficult to explain these remarkable effects by purely symptomatic treatment during active rehabilitation."

Scientists at the hospital had been researching the potential of cord blood in animal studies. In previous studies, they found that cord blood cells gravitate toward the damaged areas of the brain in large numbers within just 24 hours of administering them.

"Our findings, along with those from a Korean study, dispel the long-held doubts about the effectiveness of the new therapy," Jensen said. Jensen was referring to a study conducted by Korean doctors on 100 children two months ago. They reported that they had also treated cerebral palsy with cord blood.

This development in stem cell research also comes just two days after other reports were released about a blind man who received embryonic stem-cell treatment, restoring his sight to the point that he could pass a vision test for a driver's license.

The findings from this procedure will be published in the journal *Case Reports in Transplantation*.

Sources: Jensen A, Hamelmann E. First Autologous Cell Therapy of Cerebral Palsy Caused by Hypoxic-Ischemic Brain Damage in a Child after Cardiac Arrest-Individual Treatment with Cord Blood. *Case Reports in Transplantation*. May 2013. Accessed May 23, 2013.



## New Hope For Psoriasis

physically reborn with stem cell treatment

### TESTIMONIAL

Itch..Pain..Unwanted stares and attention..These have been a part of my life ever since that two spots which I thought were purely harmless appeared on my scalp which slowly spread to my forehead and neck. I have suffered from psoriasis which happens to about 3% of the population. It's like a snowball effect and seems unstoppable.

Puzzled with my condition, I opted to use anti dandruff shampoo which showed no improvement. I decided to get a hair tonic from the clinic where the first bottle stopped the spreading of the patches but it relapse when I continued with the second bottle. As the patches spread towards the neck, I consumed gamat thinking it would help. Unfortunately it became a kick start for the patches to spread rapidly and I gradually suffered pain in my joints. The dermatologist I consulted prescribed me body soap, shampoo and steroid cream for topical application. The effectiveness of this treatment was only seen with continuous application of the cream or else it would relapse. So I decided to give another treatment (Ayurvedic) a try. This treatment with special vegetarian diet which made my spreading condition stagnant but it did not help to improve my condition. Therefore, I gave up half way.

I was bed ridden for almost 2 years because my joint was inflamed and I couldn't tolerate the pain. I attended Reiki therapy which helped to alleviate some pain and discomfort, and I was able to walk again. But the psoriasis condition did not improve. Subsequently, I tried a few traditional treatments, yet it went in vain.



before



after



The turning point for me was when I attended a health conference and I was introduced to stem cell treatment. I was curious about this treatment and started doing some research. I came to know about Cytopeutics. I decided to give one last try keeping my fingers crossed. Here, I was reviewed by a panel of specialist doctors. My first treatment was an IV infusion of stem cells where it showed significant improvement in my blood test but not on skin. I continued second treatment, which was a localised administration, and in just 2 weeks flaking and redness have reduced. I witnessed dramatic changes as weeks gone by. God knows how thankful I was.

**I have been on many medicines and treatments but Cytopeutics gave me support physically and mentally.**

Currently, my social life has improved. I have been on many medicines and treatments but Cytopeutics gave me support physically and mentally. I felt like I am physically reborn.

Aeryn (44 years old)  
Psoriasis patient



before



after

  
**Cytopeutics**  
*Professional . Responsible . Evidence-based*

# Stem Cells Treatment



**Cardio**cell®  
For Heart Failure and Dilated Cardiomyopathy

**Cardio**cell-EX  
For Heart Attack

**Chondro**cell®  
For Osteoarthritis

**Dermacell**  
For Diabetic Foot Ulcer and Wound Healing

**Angio**cell  
For Refractory Angina and Peripheral Artery Disease

**Neuro**cell  
For Stroke and Spinal Cord Injury

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For Intervertebral Disc Degenerative Disease

**Pioneering Stem Cell Research and Treatment**

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## Face to Face with Yeo Yann Yann

malaysian golden award best actress

### 1 What made you decide on stem cell banking?

Life is unpredictable and vulnerable. I think stem cell banking is the best gift I can ever give to my newborn child. We can't foresee the future, but we can prepare ourselves to face any unexpected situation, we should be ready rather than be sorry.

### 2 Do you think the public is aware about the benefits of stem cell banking?

Awareness on stem cell banking is pretty low. People might have heard about stem cell banking but most of them do not know much about the benefits and usage. CryoCord is doing an excellent job on educating the public through expos, antenatal classes and others. As a celebrity, I have the responsibility to convey this information to all.

### 3 What is your personal advice to all mother-to-be about stem cell banking?

There are a few stem cell banks in the market and not all provide the same services. When it comes to stem cell storage, it is advisable to choose the company with vast experience. I choose the stem cell bank that I think is the most reliable and trustworthy in terms of their storage and the stability of the company.



### 4 There are many stem cell companies out there. Why CryoCord?

CryoCord is based in Malaysia and currently is the largest stem cell bank in South East Asia. In terms of technology, they are leading with their most advanced facilities. Most importantly, they are pioneering the storage of umbilical cord derived mesenchymal stem cell. Of course, I only want the best qualified experts to handle my baby's stem cells which is precious.

### 5 How did you find the service, professionalism and hospitality at CryoCord?

Love their service, they explained to me from the very basic of what is actually stem cell banking. The consultant who came to collect my stem cell helped me to calm down whilst I was in labour room. If I would like to recommend a stem cell bank to my friends or relatives, CryoCord will be my pick through my own experience.

## DO YOU KNOW SOMEONE ELSE WHO IS PREGNANT?



Just provide us with the names and contacts of your pregnant friends and we'll do the rest. Once they enroll with us, you'll earn an attractive amount up to

**RM690\*.**

To learn more call us at:

**1 800 88 3300**

\*terms & conditions apply

**cryocord** 凯儿®  
premier stem cell bank 库



# Future Health Navigating Made Easy

After months of dedicated input by a specialized web development team, CryoCord's new website was finally launched, bringing a new fresh look and branding.

Interactive functions are designed to enhance surfing experience. Social media websites link buttons are added to allow easy sharing of information among friends. With this new website, "Refer a Friend Programme" is so easy that it is just a click away. "Media Resources" feature also provides visitors eye-catching informative videos and podcasts. Upcoming exciting events are updated on the main page to make planning ahead simply a breeze!

So what do you think about our new website? Have a good snoop around and enjoy the new vibrant website at [www.cryocord.com.my](http://www.cryocord.com.my).



## ToothMSCs

Tooth Pulp Tissue  
Mesenchymal Stem Cells

Tooth Fairy comes to life through CryoCord

You can now store stem cells from children's milk teeth & adult's permanent teeth.

**cryocord** 凱兒庫  
premier stem cell bank



To learn more call us at:  
**1 800 88 3300**



# We Did It Again!

**BEST STEM CELL BANK OF PEOPLE'S CHOICE  
FOR TWO CONSECUTIVE YEARS FOR 2012 & 2013**





## Your Perfect Pregnancy Begins Here

antenatal class malaysia tour 2013



Antenatal classes are a series of major events organised by CryoCord throughout the year. The first Antenatal Class Malaysia Tour 2013 with the title "Your Perfect Pregnancy Begins Here" was held in E&O Hotel, Penang on 28th of April 2013.

Knowing the fun and benefits of antenatal classes, 90 beautiful couples decided to join this event. The excitement of the first time mothers and parents-to-be could be clearly seen. They were all here for the same reason, to focus on their pregnancy and forthcoming labour and child birth. This class was a great social function to meet other parents-to-be. The best part of all, participants were amazed and thrilled by the generosity of their goody bags and lucky draw prizes.



At the antenatal class, each session was conducted by invited speakers with medical background such as O&G specialist, Paediatrician, Nutritionist and Physiotherapist. They delivered various interesting topics covering pregnancy and parenthood. The highlight of the day was a session "A Special Moment with Jack Lim". Being a well-known Radio DJ on MYFM, Jack Lim is also CryoCord's ambassador. He shared his cherished and unforgettable experience as a father and also as a contented CryoCord client.





Through this event, most of the parents have a better understanding towards the benefits of storing CordBlood and CordMSCs.

As part of CryoCord's contribution towards Corporate Social Responsibility, specially designed t-shirts were sold at RM20 with all proceeds channeled to Thalassemia Association Malaysia .

The event was a great success and CryoCord would like to express its gratitude towards Penangites for their support. CryoCord Antenatal Class Malaysia Tour 2014 looks forward to see more mummies and daddies next year!



# Next upcoming events

Jul

12th – 14th Jul 2013

Parenthood Expo @ MVEC, KL

21st Jul 2013

Your Perfect Pregnancy (Antenatal Class)  
@ Gardens Hotel, KL

26th - 28th 2013

Little One Baby Expo @ Viva Home, KL

28th Jul 2013

Your Perfect Pregnancy (Antenatal Class)  
@ Pullman Hotel, Kuching

Aug

16th – 18th Aug 2013

Mums & Babies Fair @ Gurney Paragon, Penang

Sept

6th - 8th Sept 2013

Pregnancy and Baby Expo @ MITC, Malacca

14th - 16th Sept 2013

Mother, Baby, Kids Expo @ PWTC, KL

27th - 29th Sept 2013

Mom and Baby Expo @ Danga City Mall, JB

\* The above events are subject to change. Please call our hotline to confirm.

1800 88 3300

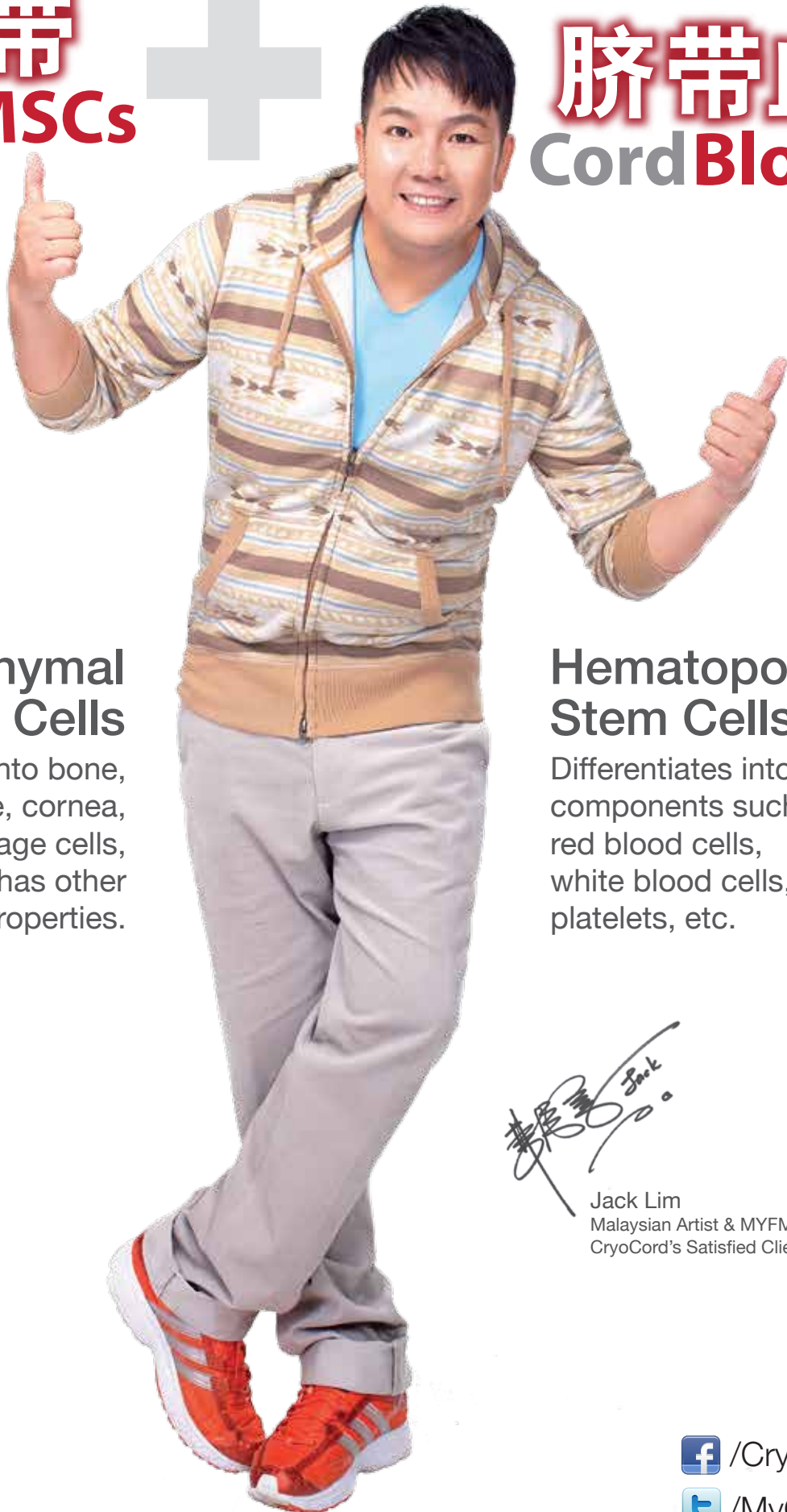
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 **cryocord** 凯儿库®  
premier stem cell bank

**脐带**  
**CordMSCs**



**脐带血**  
**CordBlood**



## Mesenchymal Stem Cells

Differentiates into bone, heart, nerve, cornea, fat and cartilage cells, and has other beneficial properties.

## Hematopoietic Stem Cells

Differentiates into blood components such as red blood cells, white blood cells, platelets, etc.

Jack Lim  
Malaysian Artist & MYFM DJ  
CryoCord's Satisfied Client



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