

Celebration

celebrating life together

Issue 1 2012

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1 800 88 3300 (Hotline)

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Cornea Regenerated in a Petri Dish

a breakthrough in regenerative medicine

A 42-year-old gentleman from Penang is finally able to see after having spent 11 years living in darkness due to a chemical injury he sustained a long time ago. A revolutionary treatment led by Dr. Then Kong Yong from International Specialist Eye Centre (ISEC) in collaboration with Cytopeutics and CryoCord, pioneered this treatment. Known as Cultivated Oral Mucosal Epithelial Transplantation (COMET), this complex procedure is done in only a few centres around the world. The patient underwent a three-stage procedure before he could see again.

The first stage involves harvesting buccal mucosal stem cells from his mouth. The cells are then grown in the lab by a team of scientists from Cytopeutics at CryoCord laboratory onto an amniotic membrane. These cells are then engineered into corneal epithelial-like stem cells. The second stage involves transplanting the cell sheet back to the patient's eye to regenerate the patient's corneal epithelium. The final stage is to perform a partial thickness corneal transplantation, which is a routine procedure. The patient was only able to see hand movement before and was totally dependent on others.

Now, he is able to read the letter chart almost all the way down and is totally independent. This is the first time such procedure has been performed in Malaysia and ISEC is the second centre in Southeast Asia able to do it. It is also the first time that cells harvested from another tissue are coaxed or bioengineered into another cell type. This shows the flexibility of stem cells in their ability to transform from one cell type to another. This revolutionary treatment provides hope to many with corneal limbal stem cell deficiency due to chemical injuries or Steven-Johnson syndrome. So far two patients have successfully undergone this procedure at ISEC.

Source: ISEC Sdn Bhd



Words from MD

A decade marks a milestone in everybody's life. Throughout the past 10 years since inception in 2002, CryoCord has met with many challenges countered with countless perseverances. Today, we stand tall and proud to be recognized as one of the leaders in shaping an industry of tremendous potential.

History was made in 2001, when Dr. K.Y Then and Professor Emeritus S.K Cheong envisioned the concept of Stem Cells Banking. Dr. Then was then a qualified Ophthalmologist cum researcher sponsored by the British Government specifically looking at Stem Cells development. Even prior to the turn of the Century, Professor Cheong was already leading a team of scientists at a local University researching into Mesenchymal Stem Cells (MSCs) & Dendritic Cells (DCs) - what was then recognized by some as mundane cells.

Through our dedicated research team, and guidance of our founders, we are slowly enabling stem cells applications from bench to bedside. Starting from offering Cord Blood Hematopoietic Stem Cells storage to Mesenchymal Stem Cells (derived from Human Fat and/or Umbilical Cord Wharton's Jelly) isolation, culture and cryopreservation services, CryoCord prides itself to be one of the most advanced and innovative pioneers in Stem Cells technologies.

Working in tandem with our sister company, Cytopeutics (est. 2008), we can now truly enable Stem Cells applications via evidence-based research and development. The "Needle-to-Needle™" service of Cytopeutics is recognized by the medical fraternity to be one of the best professional support services when come down to all the subtleties of patient counseling, Stem Cells isolation, culture, testing and delivering.

Let's work together, with your blessings and support, I am sure that we can advance science and technologies making CryoCord one of the success stories for an Asian company.

I sincerely look forward to the next decade of challenges, perseverances and a World of Smiles with you.

James Then

Managing Director



**we can now truly enable
Stem Cells applications via
evidence-based research
and development**

在人生中，十年标志着一个成长的里程碑。在过去的十年里，于2002年创业的凯儿库经历了许多的挑战。公司凭籍其坚持不懈的精神，熬过难关，至今仍屹立不倒，更被承认为发掘业界潜能，建立稳定业界方向的佼佼者之一。

当郑康勇医生及名誉教授张顺景在2001年引发起干细胞储存的概念时，历史就开始改写了。想当年，郑康勇医生除了是一位合格的眼科医生，还是由英国政府资助的研究家，以进行干细胞的研发。而张顺景教授早在新世纪开始前，就已在本地一所大学里，带领着一群科学家在专研间充质干细胞和树突状细胞的研究主管。

透过我们研究团的努力及创业者们的精心领导，我们已成功地将干细胞的应用，从遥不可及的使用边缘，转移成贴身关键的后备应用。从脐血造血干细胞储存服务到间充质干细胞（从人体脂肪及/或脐带华通氏胶，一种构成脐带的凝胶状物质）的隔离、培植及冷藏服务，凯儿库也能凭籍其最先进和革新的干细胞科技，引以为荣。

在配合我们与于2008年成立的姐妹公司Cytopeutics之合作下，我们现已能透过备有实证的研发下，应用于细胞。由Cytopeutics所提供的“Needle-to-Needle™”（由针筒到针筒）的服务，已被医疗联谊会认证为其中一项在病患咨询、干细胞分离、培养、试验及供应服务上最专业的支援服务。

让我们一起携手合作。我深信有了您的祝福及支持，我们一定能再度把这方面科学和科技，推到另一个高峰、撰写出其成功故事。

我衷心的希望能继续与您一起，以坚持不懈的意志，去面对在接下来的十年里可能出现的挑战，以及迎接充满欢笑的世界。

郑康力
执行董事

Cord Blood Helps US Girl Recover from Critical Brain Injury



Washington: A little girl in US was able to get out the vegetative state she was reduced to after a brain injury, thanks to cord blood stem cells.

When Sparrow Morris fell into the family's swimming pool, she was left unconscious and without oxygen for 45 minutes. It caused severe brain damage and she was left in a vegetative state unable to sit or speak.

"She had a contorted body," Fox News quoted Tonya Morris, Sparrow's mother, as saying.

The Morris', who have 8 children, had decided to bank Sparrow's cord blood earlier but didn't think they'd ever need to use it.

Fifteen months after her injury, doctors reinfused the cord blood into Sparrow as part of a trial at Duke University.

Morris said she noticed a difference in her daughter the next day.

"She was excited, walking better... she spontaneously started talking to me," she said.

"We didn't think we'd ever have to use (the cord blood). We just saw the value in it and decided it was money well-spent," she added.

cord blood can have a positive effect on all kinds of medical conditions

Doctors are discovering that cord blood can have a positive effect on all kinds of medical conditions - from cancer to cerebral palsy to hearing loss.

Source: www.zeenews.india.com

脐带血帮助美籍少女从严重脑部创伤中恢复过来

华森顿讯：在美国，一位脑部受了严重创伤的少女，因为注入了脐带血干细胞，而得以减轻病情，成功脱离成为植物人的险境。

在Sparrow Morris掉入她家的游泳池后，她一度在未被发现的情况下，昏迷且缺氧长达45分钟。这严重地损坏了她的脑部，致使她曾成为无法坐谈的植物人。

福克斯新闻在报道这事件时，引用了她母亲Tonya Morris 的说法：“她的身体还是扭曲着的。”

共有八名小孩的Morris夫妇，之前虽然决定把Sparrow的脐带血储存起来，可是却没预料到会有派上用场的一天。

在她受伤了十五个月后，杜克大学进行了这试验，医生把她的脐带血重注入她的体内。

Morris表示，隔天她便发现到女儿有了变化。

她说：“她很兴奋，可以走的更好了。。。她还马上开口跟我说话。”

除此以外她也说道：“我们从未想过我们会用到它(脐带血)，但我们意识到它的价值，因此决定把它储存下来，这样做应该是值得的。”

医生发现到脐血可对许多各种的健康状况，从癌症、脑性麻痹到失聪，带来正面的效应。



Stem Cells Beat Kidney Rejection

no more lifetime of anti-rejection medication

An injection of stem cells given alongside a kidney transplant could remove the need for a lifetime of drugs to suppress the immune system, say scientists.

Early tests of the technique at US hospitals were successful in a small number of patients. The journal *Science Translational Medicine* reports how the majority no longer need anti-rejection medication.

Researchers said it could have a "major impact" on transplant science. One of the key problems associated with organ transplantation is the risk that the body will "recognise" the new organ as a foreign invader and attack it. To prevent this, patients take powerful drugs to suppress their immune systems, and will have to do this for life.

The drugs come at a price, preventing organ rejection but increasing the risk of high blood pressure, diabetes and serious infection.

Challenges

The study, carried out at the University of Louisville and the Northwestern Memorial Hospital in Chicago, involved eight patients. Their transplant came from a live donor, who also underwent a procedure to draw stem cells, the building blocks of their immune system, from the blood.

The transplant recipient's body was prepared using radiotherapy and chemotherapy to suppress their own immune system.

Then the transplant went ahead, with the stem cells put into their body a couple of days later. The idea is that these will help generate a modified immune system that no longer attacks the organ or its new owner.

Although the patients started off with the same anti-rejection drugs, the aim was to reduce these slowly, hopefully withdrawing them completely over time. Five out of the eight patients involved in the trial managed to do this within a year. One of those is 47-year-old Lindsay Porter, from Chicago.

She said: "I hear about the challenges recipients have to face with their medications and it is significant. "It's almost surreal when I think about it because I feel so healthy and normal."

Dr Joseph Leventhal, associate professor of surgery at Northwestern University Feinberg School of Medicine, said: "The preliminary results from this ongoing study are exciting and may have a major impact on organ transplantation in the future."

He said that, as well as kidney patients, the technique might improve the lives of those receiving other organs.

While stem cells from organ donors have been used before, this is the first time it has been used for "mismatched" transplants, in which donors and recipients do not have to be related and immunologically similar.

the technique might improve the lives of those receiving other organs.

Source: www.bbc.co.uk

干细胞可对抗肾脏排斥反应。

科学家说：在配合肾脏移植手术时进行干细胞的注射，可减去一生以药物抑制免疫系统的需要。

在美国医院，针对小部分患者所进行的初步试验展示出成功的案例。科学转化医学刊物报道，大部分接受了此试验的患者，均不需再接受抗排斥药物。

研究员们说，它可能会对移植科学带来“重大的影响”。器官移植其中一项最主要的问题就是身体会把新器官“确认为”外来侵袭者，然后对其作出攻击，使身体面临危机。为了避免这问题的发生，患者需长期接受强力的药物，以抑制他们的免疫系统发挥此确认的功能。

这些药物也会带来各种的副作用，虽然它可抵抗器官排斥，但却也会提升血压高、糖尿病及严重感染病的机率。

挑战

参与由美国路易斯维尔大学及芝加哥西北纪念医院联办的研究参与者共有八名。他们的器官移植全源自于健活的捐赠者。这捐赠者同时也参与了一项干细胞抽取的医疗程序。这程序旨在从他的血液内，抽取能有助于建立他们免疫系统的干细胞。

接受器官移植的患者们需先以放疗及化疗抑制他们本身的免疫系统。

然后再进行器官移植。数天后，再将干细胞注入于他们的体内。这是为了要更改他们的免疫系统，以防止它们攻击被捐出的器官或其新主人。

虽然患者们还是需要先接受相同的抗排斥药物，然而这里的主要目的是想慢慢地将抗排斥药物豁免掉。接受试验的八位患者中，有五名的患者成功地在一年内把抗排斥药物豁免掉。其中一位，就是来自芝加哥，47岁的Lindsay Porter。

她说：“我有听说过有关接受移植者所需面对的医药治疗。这都是很显著的。”“当我想起他们所说的话时，我觉得有些夸张，因为我感觉到自己蛮健康和正常的。”

西北大学范伯格医药学院副教授Joseph Leventhal医生说：“这持续性研究的初期结果非常富激励性，且可能对未来的器官移植带来重大的影响。”

他说，除了肾脏病患，这科技也可能可对接受其它器官移植的患者带来生活上的改善。

虽然之前也曾使用过器官捐赠者的干细胞，解除移植所产生的排斥问题。然而，这却是第一次把它使用在“不相称”的移植上。所谓“不相称”的移植，即为捐赠者与接受捐赠者并血缘关系，且没有相称的免疫能力。

DO YOU KNOW SOMEONE ELSE WHO IS PREGNANT?



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premier stem cell bank

Face to Face with Sharifah Sofia

Malaysian actress enjoying motherhood



1 What made you decide on Stem Cell banking?

When I was pregnant, I always had Stem Cell banking in my mind when I read the brochures in the OBGYN's clinic. I always thought it would come useful in times to come when the going gets rough. I consider it as a biological insurance.

您为什么会决定进行干细胞储存?

在我怀孕时，我曾在妇产科诊所内看过许多有关于干细胞储存的宣传刊物，且已想过要进行干细胞的储存。我一直都深信，在日后可能会面临一些逆境，那它就可派上用场了。我把它看成一份生物保险。

2 Do you think the public is aware about the benefits of Stem Cell banking?

People may not know very much about the benefits of Stem Cell banking, but the awareness of this service is gaining. It all comes down to continuous educating the public.

您觉得公众会不会意识到有关于干细胞储存的重要效益呢?

人们可能不太了解干细胞储存的益处，然而越来越多人已知道这类服务的存在。现在要做的，就是需继续教育公众。

3 What is your personal advice to all mother-to-be about Stem Cell banking?

If there is anything different in your family genes; if you wonder will there ever be a time when you need help; if there is a way you could save a life even if its not your own. Think about the future and what technology can do for us. Stem Cells can be stored for years and years. If you don't have a chance to use it, your children or even your children's children may have that chance. Once you are a mother, life no longer about us but about them.

您会对于其他未来的妈妈，作出什么的干细胞储存建议?

如果您家庭成员有着异样的基因，或您在考虑您是否会用到它，还是想要救人一命(虽然不是您自己的性命)的话，那您就该进行干细胞储存。想想以后的生活及科技如何能为我们带来的益处。干细胞可长久地被储存起来。如果您没用上它，您的孩子或孙子，也可能有需要用上它的一天。一旦成了妈妈后，我们所重视的，已经不是自己的性命，而是他们的生命。

4 There are many other Stem Cell companies out there, why CryoCord?

There are many benefits that come from CryoCord. One thing that stood out from the rest is that they store CordMSCs (Cord Tissue derived Mesenchymal Stem Cells) as no other Stem Cell Bank in SE Asia provide such a service at this moment.

除了外，还有许多的干细胞储存公司，为什么您会选择凯儿库？

凯儿库可以提供许多好处。它其中一项比其它公司出色之处，就是他们进行CordMSCs(从瓦顿氏凝胶萃取的干细胞)的储存。现时在东南亚，暂时还没有其它的干细胞储存库提供这类型的服务。

CryoCord store CordMSCs (Cord Tissue derived Mesenchymal Stem Cells) as no other Stem Cell Bank in SE Asia provide such a service at this moment.



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

Fantastic. When you need them, they are right at your doorstep. Friendliness is at the top.

您觉得凯儿库的服务、专业学问如何？

非常好。当您需要他们的帮助，他们马上会出现。他们也非常友善。

My sister's CordBlood save my life.

Nur Dalila
Thalassemia
Major Survivor
CryoCord Community
Transplantation Programme

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We're GREEN-ing the World!

As part of our continuous efforts in corporate social responsibility, we have now taken a vow to protect Mother Earth by choosing FSC (Forest Stewardship Council) approved paper for all of our printing endeavours. FSC certified paper means, choosing forest products like paper and wood that have been sourced in an environmentally friendly, socially responsible and economically viable manner. This essentially advocates our actions to protect habitat, prevent pollution, planting more trees than are harvested and avoiding displacing native peoples and harming wildlife. As always, we enjoy making a big difference in lives.

我们正为这地球进行绿化活动！

作为公司延续性对企业社会责任的一部份，我们已许下承诺，将在公司的所有印刷上，选用经森林管理委员会所批准的纸张，保护我们的地球。选用经森林管理委员会所批准的纸张即选用从友善环境取得，透过社会责任及最经济的大前提下所使用的纸张及木材。这倡导着我们欲保护原始栖息地、预防污染、种植比收成更多的树木、防止乱移土著们的家园及不伤害野生动物的意愿。一贯如常，我们享受为改善人们生活作出的贡献。



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Send your **name** and **email address** and type **e-News** as the subject. Send to **info@cryocord.com.my**

Thank You

**VOTED BEST STEM CELL BANK & SERVICE,
BY BABYTALK MAGAZINE.**

We would like to express our heartiest appreciation and acknowledgement to all for voting us as enabling us to embrace the Readers' Choice Awards 2012.





Expos Participated in 2012

27th – 29th Jan 2012
Grand Baby Fair @ Philippines

24th – 26th Feb 2012
Motherhood Expo @
KL Convention Centre

9th – 11th Mar 2012
Maternity & Children @ MVEC

27th - 27th Mar 2012
Mom & Baby Expo
@ Johor Bahru

13th – 15th May 2012
Mom & Baby Expo @ MVEC

3rd – 5th Jun 2012
Mother Baby Kids Expo
@ PWTC

10 years Anniversary Celebration

It has been 10 years since the inception of CryoCord in stem cell banking initiative. This year we celebrated 10th anniversary at expos in the major cities around Malaysia. The stars studded event was a huge success with the presence of Sharifah Sofia, Yeo Yann Yann and Cai Pei Xuan.

Activities include celebrities sharing their experiences during pregnancy and with CryoCord, attractive promotions and free gifts such as baby strollers were given away for those who enrolled with us on the spot.





Autism Day | Citta Mall
15 April



Healthy Me, Happy Me | i-Heal MC
21 - 22 April



Nona @ TV3 | Cyberjaya
31 May



Minggu Kesihatan LHDN | Cyberjaya
4 - 6 June



**Press Conference:
Cornea Regenerated in a Petri Dish | ISEC**
22 June

Next upcoming events

Jul

27th – 29th Jul 2012
Parenthood Expo @ MVEC, KL

Aug

10th – 12th Aug 2012
International Baby Expo @ KL Convention Centre

Sep

14th – 16th Sep 2012
Mama & Baby Fair @ MITC, Malacca

28th - 30th Sep 2012
Sabah Parenthood Expo @ 1Borneo Hypermall

Oct

5th – 7th Oct 2012
Mom & Baby Expo @ Danga City Mall, JB

Nov

2nd – 4th Nov 2012
Mother baby Kids Expo @ PWTC, KL

30th Nov – 2nd Dec 2012
4th Maternity & Children Expo @ MVEC, KL

Dec

7th – 9th Dec 2012
Mom & Baby Expo @ PISA, Penang

10 YEARS OF EXCELLENCE

