SECRET CELL

LIVE YOUNGER . LIVE BETTER

Exosome

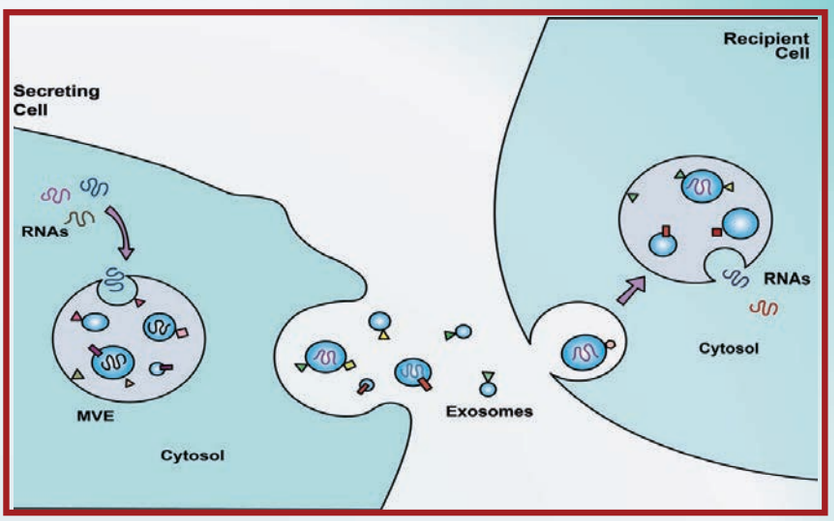
Generated by Umbilical Cord Stem Cell
干细胞外泌体

The newest frontier in a cellular regeneration techniques
再生医药领域里最新的前沿技术

关于外泌体 ABOUT EXOSOME

The newest frontier in a cellular regeneration techniques

再生医药领域里最新的前沿技术



Exosome involved in the **signaling between cells**, reduce inflammation, cause cells to regenerate and regulate the body's immune response.

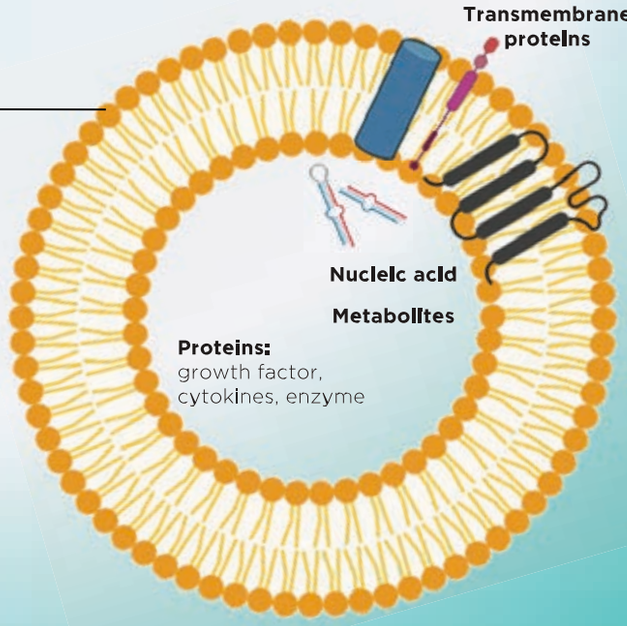
外泌体有助于细胞间的信息传递、抑制炎症、 促进细胞增殖及调节免疫系统。

什么是外泌体
WHAT ARE EXOSOMES?

GENERATED BY STEM CELL 干细胞外泌体

Exosomes are small extracellular vesicles released by all cells.

外泌体是细胞分泌的膜性脂质小囊泡。



Communication tool between cells

细胞之间沟通的“桥梁”

They are nano-sized messenger carrying important signaling proteins and genetic information from cell to cell, facilitating communication between cells.

外泌体含有多种信号蛋白及基因信息， 是细胞间沟通的“桥梁”， 可促进细胞间的信息传递。

“ **Exosomes derived from Mesenchymal Stem Cell (MSCs) play a vital role in cell communication and rejuvenation in our body.**
间充质干细胞外泌体在细胞间的信息传递及增长中发挥重要的作用。

为什么选择间充质干细胞外泌体
Why MSC-derived Exosome?

Safe source
安全来源

Fast absorption
快速渗透

Established studies worldwide
拥有来自世界各地的研究证明

References: [1] Vishnubhatla, I., Corteling, R., Stevanato, L., Hicks, C., & Sinden, J. (2014). The Development of Stem Cell-Derived Exosomes as a Cell-Free Regenerative Medicine. Journal of Circulating Biomarkers, 3(1). [2]Yeo, R. W., Lai, R. C., Zhang, B., Tan, S. S., Yin, Y., Teh, B. J., & Lim, S. K. (2013). Mesenchymal stem cell: an efficient mass producer of exosomes for drug delivery. Advanced drug delivery reviews, 65(3).

关于细胞和基因治疗产品的规章制度
CGTP
Rules and Regulations
(Cell and Gene Therapy Products)

01 Right to Use安全使用

Cells and related products are required to be **tested via scientific proven method.**

生物细胞及其相关产品都需通过科学验证的方法进行检测。

02
Right to Manufacture
安全生产

Cells and related products are required to be manufactured in a cGMP environment for safety purpose.

生物细胞及其相关产品都 以确保其安全性。

cGMP = current Good Manufacturing Practice

当前标准的生产质量管理规范

03

With the breakthrough of biotechnology, Our Exosome R&D team successfully developed and **patented** a novel exosome isolation method to isolate high purity exosomes for various medical applications.

随着生物技术的突破，我们的外泌体研发团队成功开发出一种新颖的外泌体分离方法并获得专利，以分离高纯度的外泌体用于各种医疗应用。

"METHOD FOR STABILIZING EXTRACELLULAR VESICLES AND IT'S APPLICATION SYSTEM THEREOF"

"稳定细胞外囊泡的方法及其应用系统"

外泌体的益处

Benefits of Exosomes

Rejuvenate & Regenerate

Cell Rejuvenate
细胞恢复活力

Vital organs such as lung, cardiac system and nerves able to heal and enhance itself.

身体重要器官如肺、心脏及神经可自我恢复活力和治愈。

Cell Regenerate
细胞再生

Induce and invigorate regenerated cells to restore damaged tissues or organs, its functions and processes.

在受损组织器官微环境的 诱导下，间充质干细胞进行 分裂增殖、定向分化并整合到受损的组织器官中，进行修复 或再生。

Contain **growth factors, mRNA** and **proteins** necessary for regeneration purpose.

含有生长因子，蛋白质，和信使核糖核酸 mRNA。这些都在促进愈合过程中扮演着非常重要的角色。

Nano size (30-100 nm)
纳米尺寸 (30-100 nm)

Easy penetration into cell
容易渗透进细胞内

Immunoregulator and improve overall cell health
调节免疫及改善细胞的整体健康状况

治疗潜力
Potential Treatments

Cardiovascular Diseases	心血管疾病
Immune-related Diseases	自身免疫性疾病
Eye Diseases	眼部疾病
Corneal Healing	眼角膜愈合
Neurological Diseases	神经系统疾病
Osteoarthritis	骨关节炎
Rheumatoid arthritis,	类风湿性关节炎
Bone fractures	骨折
Brain Trauma	脑外伤
Stroke	中风
Skin Diseases	皮肤疾病
Skin rejuvenation	肌肤年轻化
Wound healing	伤口愈合
Parkinson's Disease	帕金森病
Alzheimer's disease	阿兹海默症
Autism	自闭症
Overall well being	整体健康

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