

ABOUT 共分泌组 SECRETOME

Emerging cell-free approach in Regenerative Medicine 再生医学中新兴的无细胞方案

Secretome involves in the utilizing of the bioactive factors and signaling molecules secreted by cells to promote tissue regeneration.

分泌组是再生医学领域中新兴的方案,应用细胞分泌的生物活性因子和信号分子,通过其促进组织再生。

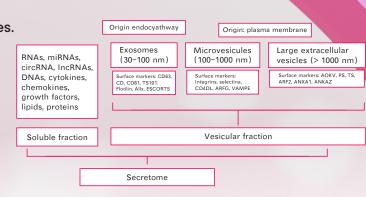
什么是分泌组 NHAT IS SECRETOME

Secretome is a complex mixture of soluble factors and vesicles secreted by cells to surroundings.

These factors include soluble proteins, free nucleic acids, lipids, andextracellular vesicles.

分泌组是细胞分泌到周围环境中的混合物,其中包含 因子和囊泡。

这些因子包括可溶性蛋白质、游离核酸、脂质和细胞外囊泡。



SECRETOME & EXOSOME: THEY ARE DIFFERENT 细胞分泌组和外泌体的区别

Exosome is a type of extracellular vesicles, with diameter of 50-150nm. They are a part of the secretome.

细胞外泌体是一种细胞外囊泡类型,直径为50-150纳米。 外泌体是分泌物的一部分。

How SECRETOME WORK

Stem cells have shown promise in tissue regeneration due to their differentiation capability. However, recent reports suggest that the therapeutic potential of stem cells is essentially based on their paracrine effects.

The secretome released by cells mediate cell-to- cell signaling through their paracrine actions, thereby stimulating tissue regeneration and formation.

干细胞因具有分化能力,所以在组织再生的过程中显 示出了有效的治 疗潜力。然而,最近的研究报告显示,干细胞的治疗潜力主要是基于 它们的旁分泌效应。

干细胞分泌组含有大量的生物活性因子。通过旁分泌 作用,这些因子能介导细胞之间的信号传递,从而 促进细胞组织的修复与形成。

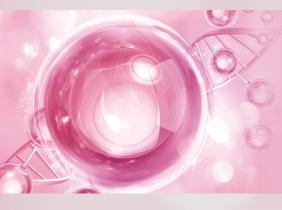


Key components of secretome: 干细胞分泌组的主要成分

Cytokines

细胞因子 生长因子 微小核糖核酸

Growth factors Extracellular vesicles (EVs) 细胞外囊泡



Secretome act directly on injured cells, or indirectly by inducing the secretion of functionally active products from adjacent tissues.

分泌物可在损伤细胞上起直接作用进行修复, 或间接诱导相邻的组织分泌功能活性因子。

为什么选择脐带源间充质干细胞 WHY UMBILICAL CORD MSCS?



Safe source 安全来源



High differentiation potential 具有较高的分化潜能, 可分化成多种的器官组织



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

COMP_{xx} RULES 细胞和基因治疗产品的 AND REGULATIONS 规章制度

01

Right to Use 安全使用

Cells and related products are required to be testedvia 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



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需在cGMP环境下生产, 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

Right to Administrate 安全异入

Cells and related products need to be advise, consult and apply by professional medical personnel!

生物细胞及其相关产品都需绍 由专业医药人员来进行建议。



BENEFITS OF SECRETOME的益处

Despite not being a cell, the ability of secretome in tissue regeneration makes it an ideal alternatives for regenerative medicine. 尽管分泌组不是细胞,然而它的组织再生能力 使其成为理想的再生医疗方案。

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。





Small molecule, easy penetration into cell. 小分子,使其容易渗透进细胞内。

Cell-free, easy storage and potential for downstream formulation. 无细胞,利于储存,并可用为终级产品配方。





治疗潜力 POTENTIAL TREATMENTS

- ✓ Hair loss 脱发
- ✓ Wound healing 关节性疾病
- ✓ Skin rejuvenation 心血管疾病
- ✓ Skin whitening 肾脏疾病
- ✓ Psoriasis 肝脏疾病

SOLARIS SCIENTIFIC (M) SDN BHD

GMP-Grade Stem Cells & Exosomes | Zero-Contamination Protocols *(ISO 13485 Certified | University-Validated Research)*

Product SKUs

1. Mesenchymal Stem Cells (MSCs)

| SKU | Cell Viability | Application |
|-------------|----------------|-------------------|
| SS-MSC-5M | | Small Area/Trials |
| SS-MSC-10M | 99% | Small-scale |
| SS-MSC-50M | 3370 | Therapeutics |
| SS-MSC-100M | | Bulk supply |

2. Exosomes

| SKU | Volume | Formulation | Key Use |
|--------|--------|-------------|---|
| EX0101 | 2-4 ml | Lyophilized | Scalp Facial Wound Healing Osteoarthritis |

^{*}Contact for bulk/clinical pricing

3. Secretomes

| SKU | Volume | Formulation | Key Use |
|-----|--------|-------------|-------------|
| Sec | 3 ml | Lyophilized | Superficial |

^{*}Contact for bulk/clinical pricing