

The newest frontier inacellular 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 NHAT ARE EXOSOMES?

Exosomes are small extracellular vesicles released by all cells.

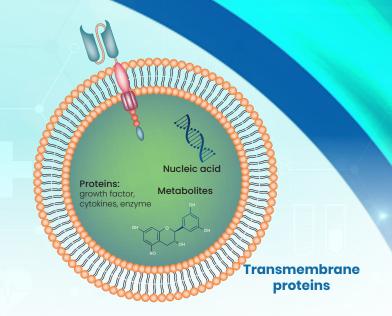
外泌体是细胞分泌的膜性脂质小囊泡。

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 (MSC) 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。

HOW SMITH MINIEST EXOSOMEWORK

Cell-cell communication is important for cell growth and tissue regeneration. However, cells in our body may not communicate effectively due to diseases and aging. Hence, leading to various health issues.

MSC-derived exosome contains important signaling molecules which influence and induce cell regeneration processes, including angiogenesis, immunoregulation, and cell growth.

细胞间的沟通对于细胞的状况及生长扮演着重要的角色。 然而,随着疾病或老化现象,细胞间的沟通会受到影响。 从而衍生出各种健康问题。

干细胞源外泌体含有许多重要的信号分子,有助于传递 重要的信息到各个细胞,并促进治愈过程。

EXOSOME CONTAINS 外泌体含有:

> Growth factors 生长因子

> > Cytokines 细胞因子

micro RNA (miRNA) 微小核糖核酸

Other biologically active molecules 其他的生物活性分子



According to clinical trials done worldwide, exosome can be administered through multiple ways depends on the targeted medical conditions, such as intradermal, intramuscular, intra-articular, intravenous and more.

根据全球进行的临床试验,外泌体可以 通过多种形式导入体内,例如皮内注射、 加肉注射、关节腔注射、静脉注射等。 使用的导入形式取决于不同的疾病和病人的状态。 Commonly used in

普遍用于治疗:

• Orthopaedic injuries 骨科损伤

> Frailty (aging) 抗衰老

Degenerative diseases 退化性疾病

EXO 101 MSC-DERIVED EXOSOMES

Our Exosomes, Exo 101 is a ready made product from Taiwan, via the collaboration between **Cell 101 International and GWOXI Taiwan**. These exosomes are derived from Wharton's Jelly of Umbilical Cord & Adipose Tissue Mesenchymal Stem Cells and have been safely tested for usage on skin, scalp, intra-articular joint spaces as well as soft tissue. It is not advisable to use the Exo 101 for intravenous application.

COMP共于 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 安全导入 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经由专业医药人员来进行建议、咨询和应用。



BENEFITS OF 外巡加 EXOSOME 的益处

Despite not being a cell, Exosome has proven to be important in maintaining a healthy cellular terrain.

尽管外泌体不等同于细胞,然而其已被证明 在维持细胞健康的过程中有着重要的作用。

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。

Easy penetration into cell 容易渗透进细胞内

Nano size (50-150nm) 纳米尺寸(50-150nm)

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



- ✓ Hair loss 脱发
- ✓ Skin rejuvenation 肌肤年轻化
- ✓ Wound healing 伤口愈合
- ✓ Osteoarthritis 骨关节炎
- ✓ Alzheimer's disease 阿兹海默症
- ✓ Autism 自闭症
 - Overall well being 整体健康

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		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

Why choose our Exosomes?

- 1. Stringent production protocols using advanced Taiwanese technology
- 2. High dose: ~200 billion particles per vial, verified in Taiwan
- 3. Stable for 3 years at cool temperatures, extensively tested
- 4. Strict administration protocols for specific injections only
- 5. Not for intravenous use due to safety concerns
- 6. Affordable compared to other products
- 7. Strong support system from Cell 101 and GWOXI to prevent negative complications