



Single Cell  
Sequencing



Drug Toxicity  
Test



Anti-viral Testing  
Platform



Anti-aging Testing  
Platform

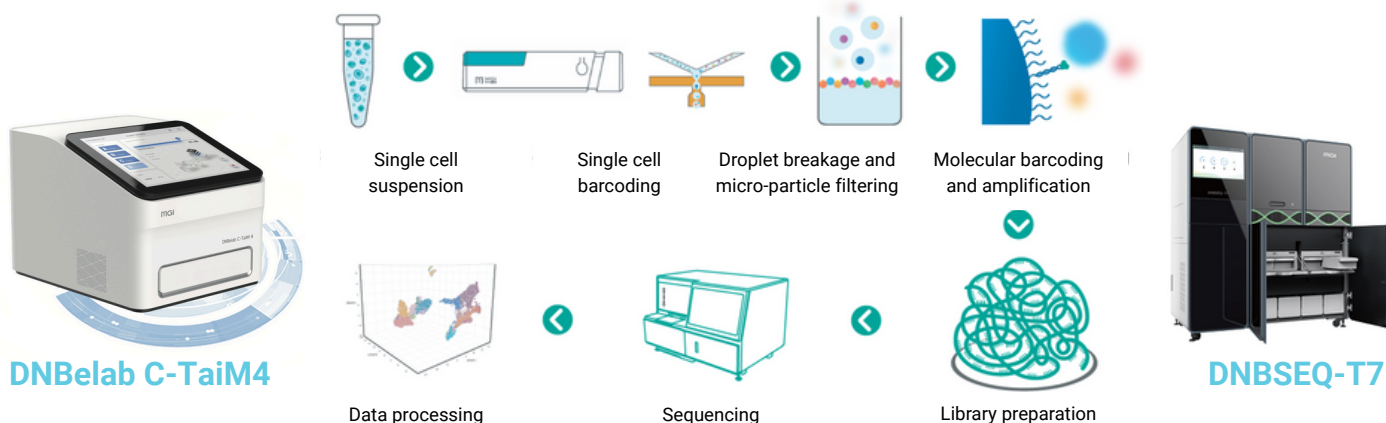
## Single Cell Omics: RNA-seq and ATAC-seq

### MGI DNBelab C-TaiM 4 Technology

- ◆ Automated single-cell droplet generator
- ◆ 5,000 - 20,000 input cells
- ◆ 4 independent micro-fluidic channels
- ◆ 9 min cell nucleus separation and labelling

### MGI high-throughput Sequencers

- ◆ DNBSEQ-T7 (16 sample/run)
- ◆ Cost effective and high quality results
- ◆ From cells to library preparation and sequencing in 1 week



## Drug Toxicity Test : Cell Toxicity Evaluation

### Cell type: Placenta-like cells

- ◆ The placenta is crucial organ for safeguarding the fetus.
- ◆ The primary cellular component are trophoblast cells.

### Our Patented Technology : Human Trophoblast Cell Model

- ◆ Fast and efficient testing services to determine toxicity of products
- ◆ Quantitative CC50 values in 1-2 weeks



# Novel Anti-viral Testing Platform

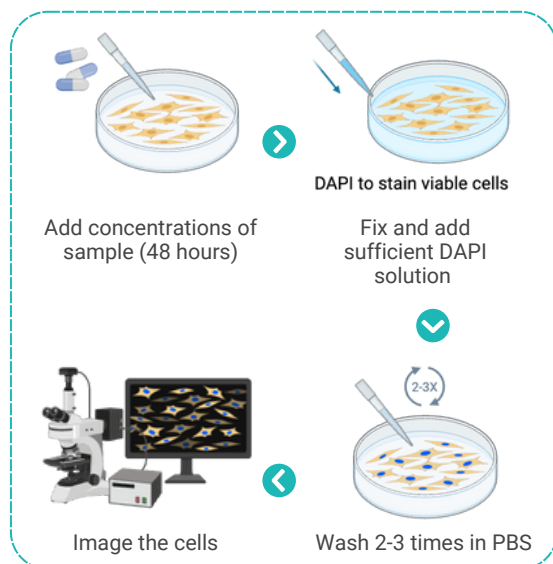
## Our Advantage

- ◆ Novel patented stem cell technology
- ◆ Quantitative test of anti-viral activity of products
- ◆ Access to Biosafety level 3

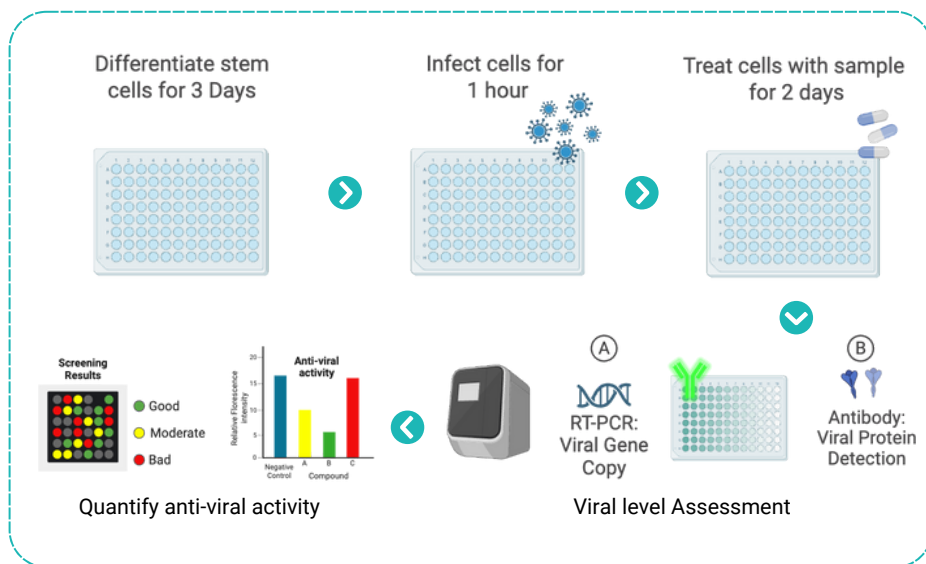
## Wide Range of Viral Targets

- ◆ Corona Virus
- ◆ Influenza Virus
- ◆ Other Viruses

## Cell Toxicity Test



## Anti-Viral Test



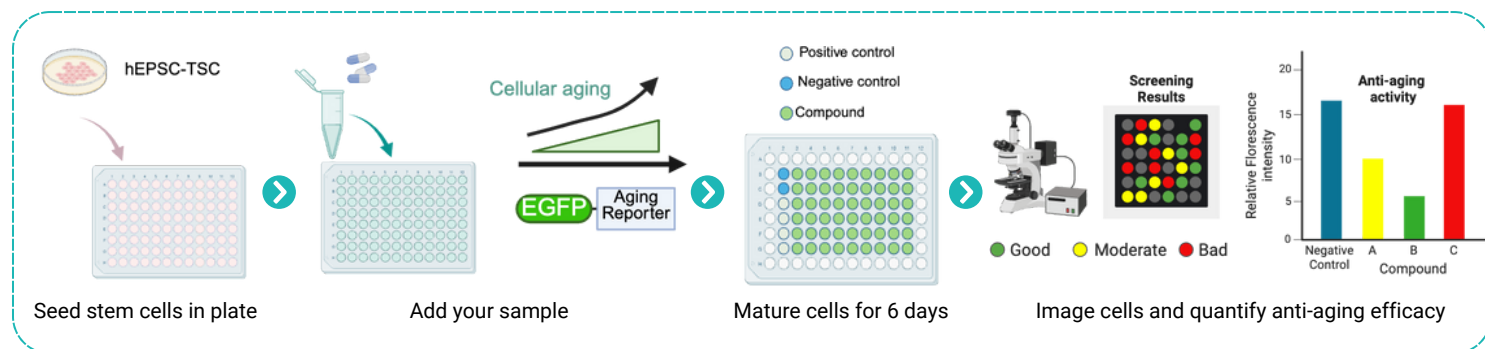
# Novel Anti-aging Testing Platform

## Our Advantage

- ◆ Novel patented accelerated aging model
- ◆ Stem cell based system
- ◆ Quantitative testing and comparison of anti-aging activity of products

## Our innovative aging model

- ◆ Mimics decades of human aging in a dish within 6 days
- ◆ Rapid and cost-effective
- ◆ Accurate and high throughput



Centre for Translational  
Stem Cell Biology  
幹細胞轉化研究中心

Centre for Translational Stem Cell Biology is an InnoHK R&D centre that pioneers patented Expanded Potential Stem Cell (EPSC) technology, advancing regenerative medicine, drug screening, precision medicine and therapeutic applications.

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