



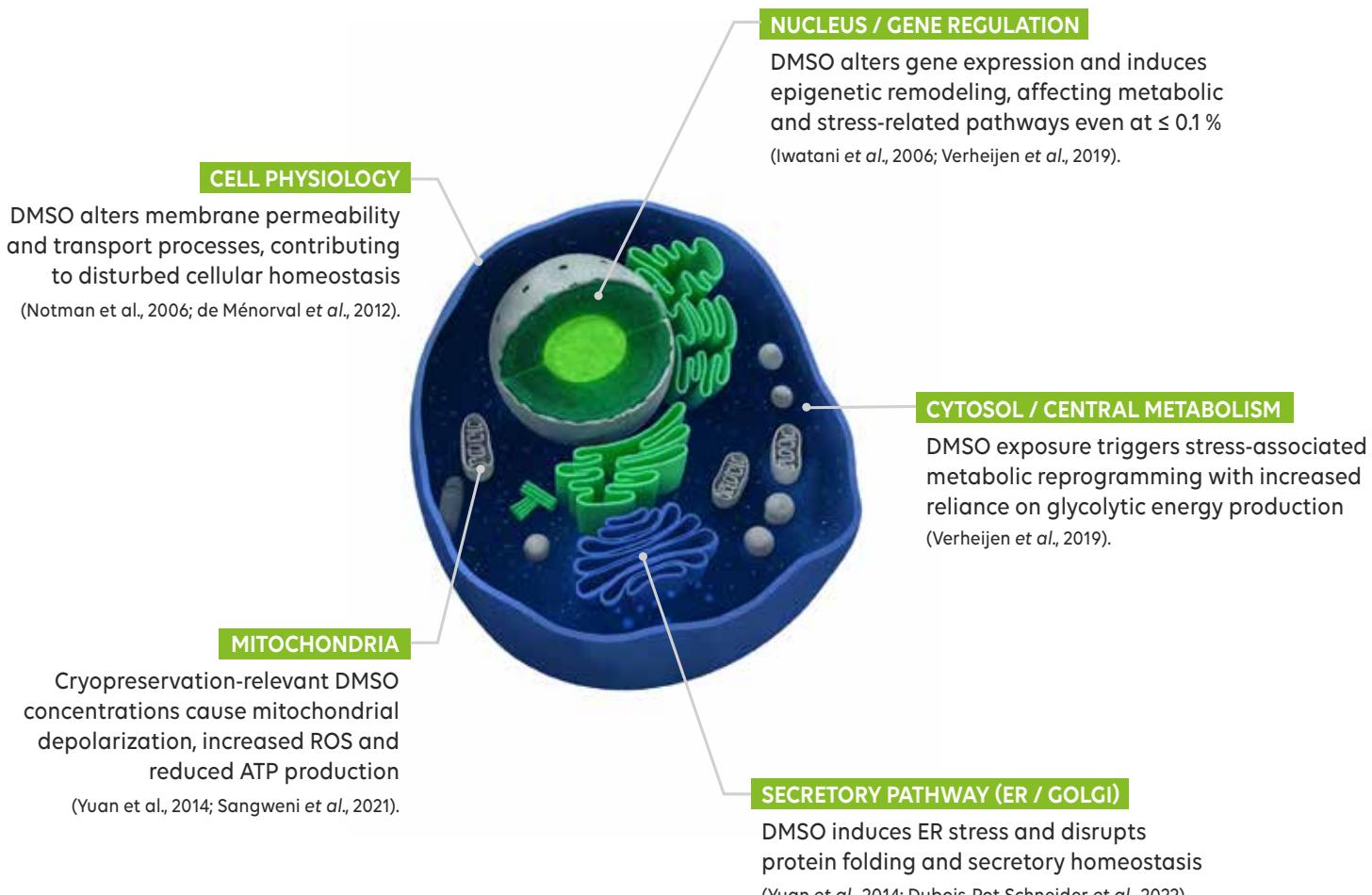
# FreezeMe ZERO

DMSO-free Cryo   » *Stable Gene Expression*  
                         » *Healthy Cells*

# DMSO – A SERIOUS RISK IN CRYOPRESERVATION

For decades, DMSO has been the standard cryoprotectant for mammalian cell lines. Modern transcriptomic, epigenetic, and metabolic data clearly demonstrate that DMSO is biologically active and alters key cellular processes critical for sustained cell performance. However, stable cell banks require cryopreservation methods that avoid these disruptions.

## CELLULAR EFFECTS OF DMSO



At Capricorn Scientific, this prompted a fundamental question: can cryopreservation preserve more than just survival? Through systematic development across diverse mammalian cell types, we therefore pursued a DMSO-free cryopreservation strategy focused on long-term cell line stability.

Our remarkable solution: **FreezeMe ZERO**.

# FreezeMe ZERO

## DMSO-FREE CRYO

» STABLE GENE EXPRESSION  
» HEALTHY CELLS

FreezeMe ZERO minimizes freeze-thaw-induced biological changes and supports stable, reproducible preservation of conventional and engineered cell lines.



» DMSO-free, Chemically Defined Formulation

Cryopreservation without transcriptomic, metabolic, or epigenetic perturbation

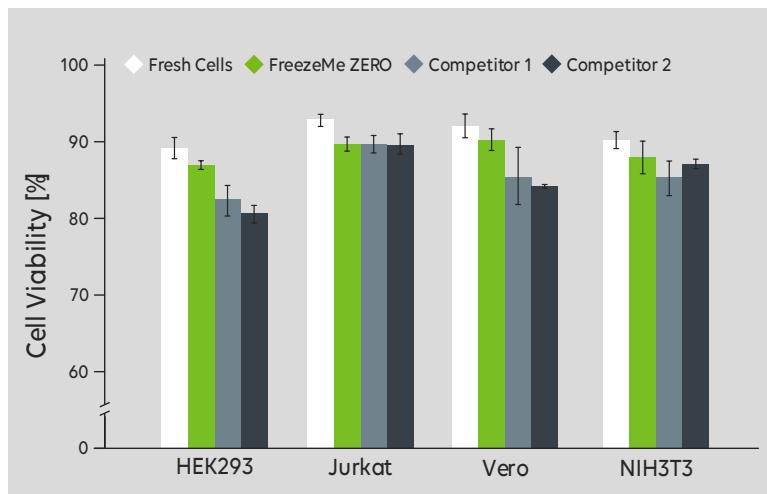
» High-Density Cryopreservation

High cell concentrations of  $50 \times 10^6$  cells/ml can be preserved enabling efficient generation of cell banks

» Robust Post-Thaw Viability and Expansion

Cells recover rapidly and reproducibly, shortening post-thaw recovery

### HIGH POST-THAW VIABILITY ACROSS DIVERSE CELLS



### ORDER INFORMATION

**PRODUCT**

**FreezeMe ZERO**  
DMSO-free Cryopreservation  
Medium for Cell Lines

**VOL. CAT.NO.**

50 ml FMZ-50ML  
5 x 10 ml 5-FMZ-10ML

For further support, feel free to contact our experts at [techservice@capricorn-scientific.com](mailto:techservice@capricorn-scientific.com) or phone (+49 6424 944 64 0).

**WANT TO LEARN MORE?**  
[www.capricorn-scientific.com](http://www.capricorn-scientific.com)



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## THE RIGHT CHOICE FOR YOUR CELLS



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Product Flexibility



Your Partner in  
Cell Culture



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