A Scalable and **GMP-compliant Electroporation Platform** that Accelerates Your Journey from Cell Therapy Research to Clinical Manufacturing

Presentation to SaxoCell

MaxCyte®

Agenda MaxCyte Presentation

A) Intro & Overview

1. Introduction to MaxCyte®.
2. Overview of the ExPERT™ Platform
   - workflow
   - consumables, instruments
   - technology features

B) Case Studies

- CRISPR-Engineering of **T cells**
- CAR-mRNA expression in **Tregs**
- Genetic modification of **Macrophages** with mRNA and DNA
- Genetic modification of **HSC**s with mRNA and DNA
- Complex editing of **HSC**s with **large Base Editors**

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References MaxCyte Presentation

Case Studies	Citation	Publikation Link
A GMP-Compatible, Non-Viral **CAR T Cell** Manufacturing Process	Shy, B.R., Vykunta, V.S., Ha, A. et al. High-yield genome engineering in primary cells using a hybrid ssDNA repair template and small-molecule cocktails. Nat Biotechnol 41, 521–531 (2023).	https://doi.org/10.1038/s41587-022-01418-8
CD19-CAR expression in **Treg**	internal MaxCyte data	Contact aroig@maxcyte.com
HSC engineering with large nucleases (Base Editors)	Newby GA, Yen JS, Woodard KJ, et al. Base editing of haematopoietic stem cells rescues sickle cell disease in mice. Nature. 595(7866):295-302, 2021, Springer	https://doi:10.1038/s41586-021-03609-w
Genetic modification of **HSCs** with mRNA and DNA	internal MaxCyte data	www.maxcyte.com /ressources
Genetic modification of **Macrophages** with mRNA and DNA	internal MaxCyte data	www.maxcyte.com /ressources

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