DG-GT Deutsche Gesellschaft für Gentherapie e.V.

WEBINAR

GENERATING GENE-MODIFIED CD34+ CELLS FROM URINE-DERIVED IPSCS

Our Speaker:

Julia Denise Peterson

German Cancer Research Centre (DKFZ), Heidelberg

Chair: Prof. Dr. Toni Cathomen, University of Freiburg

26 January 2023

13:30-14:30 CET

Via: YouTube

Language: English

Julia Peterson will describe how she developed a non-integrating, stably maintained DNA vector system for the genetic modification of iPSC-derived CD34⁺ cells. She will also talk about using urine samples as a quick, cost-effective, and non-invasive method to derive iPSCs that can then be differentiated into CD34⁺ hematopoietic progenitor cells. Furthermore, she will describe how these iPSC-derived CD34⁺ cells could be used as a potential treatment for monogenic blood diseases, as well as how they can act as an intermediate step in the development of T-cell immunotherapy.

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