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Authors: Michael J. Jenkins, Suzanne S. Farid

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ACCEPTED MANUSCRIPT

Cost-effective bioprocess design for the manufacture of allogeneic CAR-T cell therapies using a decisional tool with multi-attribute decision-making analysis

Michael J. Jenkins, Suzanne S. Farida*

Department of Biochemical Engineering, University College London, Bernard Katz Building, Gower Street, London WCIE 6BT, UK

^{a,*}Corresponding author

Prof Suzanne S. Farid

s.farid@ucl.ac.uk

+44 20 7679 4415

Highlights

- Decisional tool presented for identifying cost-effective allogeneic CAR-T cell bioprocesses
- Operational attributes were considered in addition to financial attributes
- Optimal flowsheet contains rocking motion bioreactors for cell culture
- Optimal flowsheet uses spinning membrane filtration technology and MACS purification
- Viral transduction and electroporation efficiencies were key process economic drivers.

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