

TECHNOLOGY OFFER

SUPPORTING INNOVATION AND TECHNOLOGY TRANSFER IN ONCOLOGY

HuMoSC



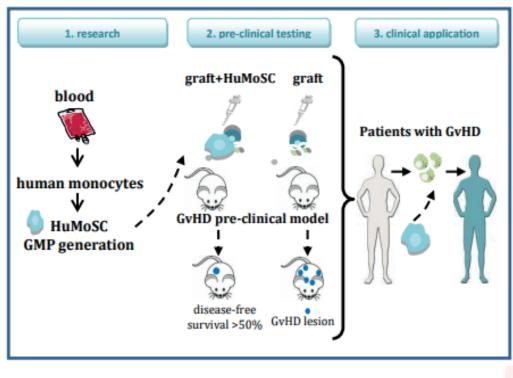
Human Monocyte-derived Suppressor Cells

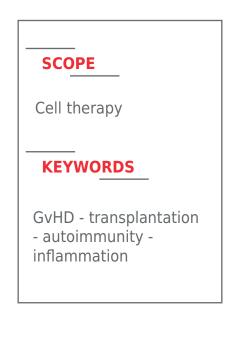


Current treatments for Graft vs Host Disease (GvHD) are based on immunosuppressive drugs often leading to complete immunosuppression. This can result in opportunistic infections in up to 20% of the cases. Novel immunotherapies show low efficiency (less than 50%) and are negatively affected by the patient's inflammatory state and may promote tumor growth.

INNOVATIVE COMPONENT & TECHNOLOGY

HuMoSC are a novel cellular therapeutic approach developed as a prevention of graft rejection in hematologic malignancies with a significant efficiency and further potential application in solid organ transplantation and autoimmune disorders.







Development of a new cell therapy against GvHD based on an original suppressive cell population



DEVELOPMENT & MATURATION STAGE

efficiency validated in a pre-clinical model of humanized mice

- mechanism of action mostly elucidated
- GMP compatible generation protocol





TARGET POPULATION

Leukemia patients having an allogeneic hematopoietic stem cell transplantation Patient developing GvHD and refractory to first-line treatment



TARGET PROFILE

Frozen allogenic or autologous batch of Human Monocyte-derived Suppressor Cells for cell therapy treatment against GvHD

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STRENGHTS & COMPETITIVE ADVANTAGES

- significant GvHD prevention
- can be generated from autologous or allogenic sources
- immunomodulating action (no complete immunosuppression as with immunosuppressive drugs)
- efficacy not altered under inflammatory conditions or in presence of immunosuppressive drugs in vitro
- easy to generate and ready for use in clinical trials
- very stable and can be cryopreserved



INDUSTRIAL APPLICATIONS & OPPORTUNITIES

prevention of GvHD

CONTACT

- graft rejection
- autoimmune diseases



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