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Advances in bone marrow transplantation

Since the first successful bone marrow transplantation in 1956, the field has advanced significantly. The development of HCT (Hematopoietic Cell Transplantation) and UCBT (Umbilical Cord Blood Transplantation) has led to improved outcomes for patients with hematological malignancies and primary immunodeficiencies. Advances in conditioning regimens, graft-versus-host disease (GVHD) prophylaxis, and donor selection have further refined the procedure. The use of HLA-matched donors and the development of novel GVHD treatments are key areas of ongoing research. Future directions include the use of gene-edited donor cells and the development of personalized conditioning regimens to optimize patient outcomes.

Biography

Marcio Alvarez-Silva is currently a Professor at the Federal University of Santa Catarina and coordinates the Laboratory of Stem Cell and Bioengineering at the Department of Cell Biology, Embryology and Genetics.

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