



## Hematopoietic Stem Cell Transplantation: Current Status and Future Research

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### Message from the Guest Editor

Hematopoietic stem cell transplantation has been widely employed in the treatment of many haematological malignancies for many years. New advances have been achieved in the indications of this procedure, prevention of relapse post-transplant, donor selection and overall treatment strategy.

The main indication of allogeneic transplantation remains acute leukaemia, either myeloid or lymphoblastic. In this field, the continuous advances in the biology allow better precision in the prognosis of an increasing number of patients. Thus, this issue requires a continuous update.

- Autologous transplantation has become accepted as the treatment for autoimmune diseases of the central nervous system, such as multiple sclerosis.
- Allogeneic transplant has been proposed as the treatment of severe sickle cell anaemia.
- A wide range of new antineoplastic agents have been introduced in the treatment of neoplastic diseases, and their use either before or after transplant may increase the efficacy and overall clinical results.
- CAR-T cells can also be obtained from lymphocytes derived from the donor, after transplant, and this opens the way for sequential treatment.
- and others.





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