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Clinical and Methodological Aspects of HSC Transplantation in Hematological Malignancies

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Message from the Guest Editor

Dear Colleagues,

Since the mid-20th century, hematopoietic stem cell transplantation (HSCT) has been used to treat defective or leukemic hematopoiesis in congenital and acquired diseases. Since its first use, HSCT had developed and improved considerably, and today, it represents a unique opportunity to cure several hematological malignancies. Thanks to the current knowledge of immunogenetics, stem cell biology, the antineoplastic and immunosuppressive properties of several drugs, and ex vivo procedures, HSCT can be applied to treat patients within a wide age range, and can overcome HLA- and ABO-group barriers. The ability of HSCT to manage the main adverse immune effects (i.e., graft versus host disease), and to maintain its intended immune effects (i.e., graft versus malignancy), renders it a powerful therapeutic strategy for preventing disease relapse or progression, and an instructive model for the development of future cell therapies.

Prof. Dr. Luca Pierelli
Guest Editor



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