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Yin and Yang of mesenchymal stem cells and aplastic anemia

Larisa Broglie, David Margolis, Jeffrey A Medin

**Abstract**

Acquired aplastic anemia (AA) is a bone marrow failure syndrome characterized by peripheral cytopenias and bone marrow hypoplasia. It is ultimately fatal without treatment, most commonly from infection or hemorrhage. Current treatments focus on suppressing immune-mediated destruction of bone marrow stem cells or replacing hematopoietic stem cells (HSCs) by transplantation. Our incomplete understanding of the pathogenesis of AA has limited development of targeted treatment options. Mesenchymal stem cells (MSCs) play a vital role in hematopoietic stem cell proliferation; they also modulate immune responses and maintain an environment

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