

Autologous stem cell transplantation

[Autologous stem cell transplantation](#) (also called autogenous, autogeneic, or autogenic stem-cell transplantation and abbreviated auto-SCT) is autologous transplantation of [stem cells](#)—that is, transplantation in which stem cells (undifferentiated cells from which other cell types develop) are removed from a person, stored, and later given back to that same person. Although it is most frequently performed with hematopoietic stem cells (precursors of blood-forming cells) in hematopoietic stem cell transplantation, cardiac cells have also been used successfully to repair damage caused by heart attacks.

Autologous stem-cell transplantation is distinguished from allogenic stem cell transplantation where the donor and the recipient of the stem cells are different people.

see [High dose chemotherapy and autologous stem cell transplantation](#).

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