

# Hematopoietic stem cell

Hematopoietic stem cells (HSCs) are the [stem cells](#) that give rise to other blood cells. This process is called haematopoiesis.

In vertebrates, the very first definitive HSCs arise from the ventral endothelial wall of the embryonic aorta within the (midgestational) aorta-gonad-mesonephros region, through a process known as endothelial-to-hematopoietic transition.

In adults, haematopoiesis occurs in the red bone marrow, in the core of most bones. The red bone marrow is derived from the layer of the embryo called the mesoderm.

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