



Handbook of the Hemopoietic Microenvironment (Contemporary Biomedicine)

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In 1868, Ernst Neumann recognized that blood cells re quire continuous replenishment during postnatallife. Before him, the assumption was that cells of the blood, like nerves once formed in the embryo, remain in the body throughout life. Neumann also recognized that this process occurred within the bone marrow, because this tissue provided a fa vorable environment for proliferation and differentiation of blood cell precursors. Vera Danchakoff, the Russian embryologist working in the US, in 1916 made an analogy to the soil and the seed. Bone marrow forms the soil, providing a favorable environment for the growth of seed, the hemopoietic stem cell, and other progenitor cells. Imagine in the remote past a heap of similar tree seeds. These seeds develop in our moderate climate into a tall and many branched tree. Suppose the wind bears a part of the seeds away and brings them to a land possessing different environmental conditions, we will say the arc tic lands. There the seeds may develop but they may pro duce trees no higher than our moss.



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