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***Correspondence**
Muhammad Naeem Iqbal, PSM Editorial Office.
Email:
driqbalmn@hotmail.com

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Adult Stem Cells: Biological Functions and Therapeutic Applications

Muhammad Naeem Iqbal*, Asfa Ashraf

PSM Editorial Office, Pacific Science Media, England, United Kingdom; Association of Applied Biomedical Sciences, Narowal, Pakistan.

Abstract:
Adult stem cells are essential to the health of our bodies because they keep our tissues in a delicate equilibrium. They guarantee a steady flow of healthy cells into our tissues to replenish any lost or damaged ones. The ability of adult stem cells to differentiate into a wide variety of cell types presents a promising avenue for the treatment of disorders for which there is presently no therapy. Stem cells from embryonic or adult origin are the focus of intense research to understand their specific biology in order to develop new medical treatments. In this issue, Alkhatib (2024) demonstrates that adult stem cells contribute to tissue healing and are widely used in the treatment of various diseases. The promise of stem cells to cure a wide range of human and animal illnesses and to heal damaged tissue is undeniable. The full potential of stem cells and their influence on human health and lifespan will only be realized with sustained investment in research and interdisciplinary collaboration.

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