

The Multidirectional Pathway taken up by Stem Cells to develop into Organs and Tissues

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Abstract

They are considered to be "Blank" cells as they have the ability of developing any kind of the cells that are able to serve to the function of the different parts of the body. However, majority of the cells of an individual are differentiated and thus are destined to work and grow accordingly. For example, Red Blood cells are responsible only for carrying the oxygen via the blood. The beginning of the life of an individual starts with the single cell which is known as the zygote. This single cell zygote divides into two daughter cells, then to four and then the cycle continues. This process is known as the differentiation. Cells are known to be a unit of life which undergoes many chemical and physiological processes to be able to perform a particular task. They are different types of cells that perform its task according to the gene encoded or the proteins formed. One of the well-known cells is the stem cells which are to be also known as the "Blank" cells as they are the only cells that are undifferentiated and are present at the embryo phase of an individual as well as in the bone marrow

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Biography

Dr. Monica Mottes, Full Professor of Applied Biology Department of Neuroscience, Biomedicine and Movement Section of Biology and Genetics University of Verona 1973 Diploma of classical maturity at Liceo Ginnasio statale "G.Prati" Trento 1977 Degree in Biological Sciences with honors, at the University of Pavia. She was born on

April 8, 1954; lives in Verona, married with two children. The research activity was carried out in collaboration with colleagues from the Universities of Verona, Brescia, Pavia and colleagues Foreigners, especially Dr. Joan C Marini, Chief of the Bone and Extracellular Matrix Branch, NICHD, NIH, Bethesda, MD, USA

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