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# Efficiency of bone marrow-derived stem cells transplantation in treatment of genetic diseases of the liver

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## Abstract

Genetic liver diseases are the greatest challenge of modern health care that have no proven treatment. End-stage patients are advised for transplantation of liver. Unlike kidney, donor liver is difficult to obtain. Therefore, an alternate route of generating hepatocytes has been sought. In the past decade, it has been shown that BM-derived stem cells are capable of regenerating liver in case of acute injury. BM-derived stem cells have been shown to differentiate into hepatocytes in culture and in vivo. It has been proposed that small increase in missing protein may cause significant improvement in the pathology of genetic liver diseases. Experimental findings from our experiments heighten the scope for exploitation of this novel phenomenon of adult stem cells plasticity for the treatment of such disease. It has been presumed that BM-stem cell therapy not only helps for the synthesis of missing protein, it may protect liver from hepatocellular carcinoma or other adverse pathological changes of the liver.

## Biography

Dr. Neelam Yadav has completed her Ph.D from Industrial Toxicology Research Centre, Lucknow and postdoctoral studies from Stem Cell Biology Laboratory of National Institute of Immunology (NII) New delhi, India. She is Assistant Professor in Department of Biochemistry, at Dr. R.M.L. Avadh University, Faizabad, India. Dr. Neelam has published many papers in reputed international journals and filed one patent.