ABSTRACTS

MONONUCLEAR PHAGOCYTE SYSTEM
IN NORMAL AND PATHOLOGICAL STATES

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QUANTITATIVE CHANGES OF MONOCYTE/MACROPHAGE CELLS IN MICE IN AUTOIMMUNE DISEASE

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(N2B x NZW)F1, MRL/lpr and BXSB mice with genetically mediated lupus syndrome development appear to be widely spread and well studied models of autoimmune diseases. GVHR-induced SIE model in (C57BL x DBA)F1 mice remains less studied. Both the rapidity of lupus nephritis development and the possibility of standardization of ill mice by clinical, immunologic and pathomorphological criteria make this model preferential. This model can be used for screening of immunoactive preparation to study autoimmune diseases. This study was undertaken to investigate the quantitative changes of monocyte/macrophage cells in blood and peritoneal exudate in (C57BL x DBA)F1 mice with nephritis. There is a reliable increase in monocyte number in blood of ill mice. Monocyte proliferation is not only pathognomonic sign of mice lupus but also an important part of pathogenesis mediated by T-cells. The number of peritoneal macrophages in ill mice was not changed. Ly1+E lymphocytes arise from cells of macrophage line. They produce autoantibodies in response to LPS polyclonal activator in comparison with normal mice. A decrease of Ly1+E lymphocyte response is a peculiarity of above mentioned model.