

Multiple sclerosis as a predominantly female immune - mediated disease

Ariel Miller ^{1,2}

¹ Technion - Rappaport Faculty of Medicine & Research Institute, Haifa, Israel

² Multiple Sclerosis & Brain Research Center, Department of Neurology, Carmel Medical Center, Haifa, Israel

Multiple sclerosis (MS), the most common neurological disease afflicting young adults, is characterized by immune system attacks that destroy the myelin insulating the nerve fibers of the central nervous system, resulting in various disabling neurological symptoms. This presentation will be devoted to reviewing the issues related to MS as a predominant female disease and the different perspectives of the interplay of the immune-endocrine-nervous systems in the pathogenesis of this immune-mediated disorder. Implementation of the recent understanding has led to the development of effective innovative immunotherapies, some already in medical practice and others being investigated in clinical trials, with major potential also for other brain diseases as well as other autoimmune disorders.