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"Induction of Experimental Allergic Encephalomyelitis in C57/BL6 Mice:An Animal Model for Multiple Sclerosis "

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Abstract:

Basic research on the autoimmune disease multiple sclerosis has been performed mainly on its animal model namely experimental allergic encephalomyelitis. There are many different approaches established to get this model. Despite the existence of many references in literature in this regard, we have been faced with many difficulties generating the model suitable for studying different therapies. After a long time of challenging to get a reliable and replicable method, we came up with the following major points: First, the key element for getting a maximum number of sick animals at a defined time is to consider the most appropriate animal body weight (19-20 gr). Even though the age of immunized animals (6-8 week old) is highlighted in literature, we found out that body weight is of a greater importance. Secondly, because the only available susceptible mice strain in Iran is C57/BL6, the choice of peptide for immunization would be myelin oligodendrocyte glycoprotein (35-55 sequence of this peptide 200 mg/animal). Finally, pertussis toxin which is a costly reagent plays a key role in stimulating the immune response. Altogether, we recommend that considering the above mentioned tricks and tracks, one would definitely be able to generate a chronic progressive type of model, for basic research on therapies of multiple sclerosis.

Keywords:

Experimental allergic encephalomyelitis . C57/BL6 mice . Myelin oligodendrocyte glycoprotein

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