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## Abstract

The major histocompatibility complex (MHC) locus has a wide variability in alleles. In many mammals, including humans, the broad spectrum of alleles has been associated with pathogen resistance and immunity. However, recent studies have shown the correlation of MHC with human mate preference. This paper will discuss MHC and its possible correlation to diseases and human mate choices. To give a clear explanation of MHC, this paper details the history of MHC, the structure and types of MHC, the disease association of MHC, and the possible influence of MHC on mate selection. Case studies are incorporated into this paper to provide credible examples and also provide clarity to MHC.

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