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Genetic barriers in transplantation medicine

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Abstract

The successful of transplantation is determined by the shared human leukocyte antigens (HLAs) and ABO blood group antigens between donor and recipient. In recent years, killer cell receptor (i.e. KIR) and major histocompatibility complex (MHC) class I chain-related gene molecule (i.e. MICA) were also reported as important determinants of transplant compatibility. At present, several different genotyping techniques (e.g. sequence specific primer and sequence based typing) can be used to characterize blood group, HLA, MICA and KIR and loci. These molecular

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