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HLA - Antigen and Haplotype Frequencies in Renal Transplant Recipients and Donors of Maharashtra (Western India)

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ABSTRACT HLA antigen and haplotype frequencies were analysed in 217 renal transplant recipients and live related donors. It has been seen that the HLA - A and B antigen frequencies were not significantly different in two groups. Two and three locus haplotype analysis was also carried out in the renal transplant recipients and the donors to find out the most common haplotype. It was observed that two locus haplotypes HLA - A2 - B40; A9 - B35; A1 - B17; A19 - B35; A2 - DR2; A9 - DR6; B40 - DR2; were found to be common among recipients and donors of Maharashtra population, at HLA A and B; A and DR, as well as B and DR locus. Three locus haplotype analysis revealed that there were only two haplotypes A10-B8-DR4; A9-B35-DR6; were common in both donors and recipients. We have compared our results with other World and Indian population and have observed unique pattern of HLA phenotype and haplotype, which suggests that it is important to create a notional donor registry and organ-sharing network for Indian sub continent.