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## Molecular Diversity of HLA-A, HLA-B, HLA-DRB1 and HLA-DQB1 Alleles from Mumbai India

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ABSTRACT Indian population exhibits not only a wide variety of ethnic but also great cultural and linguistic diversities. In the present study, 296 unrelated individuals belonging to different linguistic groups from Maharashtra are studied for HLAA, B, Cw, DRB1 and DQB1 gene frequencies using commercial PCR-SSOP kits. The results revealed that A\*02 (19.25%), A\*11 (13.17%), A\*24 (15.70%), A\*33 (11.82%), B\*35 (15.37%), B\*40 (12.66%), DRB1\*15 (19.25%) DRB1\*07 (12.83%) DQB1\*02 (20.17%), DQB1\*03 (20.85%), DQB1\*06 (21.52%), and DQB1\*06 (32.73%) are the common alleles. The common subtypes among these alleles are A\*02:01:01:01, A\*02:03:02, A\*02:06:01, A\*02:11, A\*02:22:01 out of 160 A\*02 alleles, A\*11:01:01, A\*11:03 out of 78 A\*11 alleles, A\*24:02:01:01, A\*24:06, A\* 24:07 out of 128 A\*24 alleles, A\*33:03:01 out of 34 A\*33 alleles, B\*35:01:01, B\*35:03:01, B\*35:20:01 out of 135 B\*35 alleles, B\*40:06:01:01 only allele out of 120 B\*40 alleles, DRB1\*07:01:01:01, DRB1\*07:06 out of 19 DRB1\*07 alleles, DRB1\*15:01:01;01:01, DRB1\*15:01:02, DRB1\*15:01:02, Out of 6 DQB1\*06 alleles, DQB1\*03:03:02 out of 36 DQB1\*03 alleles, DQB1\*03:01:01, DQB1\*05:03:01 out of 58 DQB1\*05 alleles, DQB1\*05:01:01, DQB1\*06:01:01, DQB1\*05:03:01 out of 50 DQB1\*06 alleles, D