**Supplementary Table S1 and S2**

**Supplementary Table S1: List of most frequent MHC-class I alleles**

|  |  |
| --- | --- |
| **Allele** **(NetMHCpan 4.1 EL)**  | **Allele****(SMM)** |
| HLA-A\*01:01HLA-A\*01:01HLA-A\*02:01HLA-A\*02:01HLA-A\*02:03HLA-A\*02:03HLA-A\*02:06HLA-A\*02:06HLA-A\*03:01HLA-A\*03:01HLA-A\*11:01HLA-A\*11:01HLA-A\*23:01HLA-A\*23:01HLA-A\*24:02HLA-A\*24:02HLA-A\*26:01HLA-A\*26:01HLA-A\*30:01HLA-A\*30:01HLA-A\*30:02HLA-A\*30:02HLA-A\*31:01HLA-A\*31:01HLA-A\*32:01HLA-A\*32:01HLA-A\*33:01HLA-A\*33:01HLA-A\*68:01HLA-A\*68:01HLA-A\*68:02HLA-A\*68:02HLA-B\*07:02HLA-B\*07:02HLA-B\*08:01HLA-B\*08:01HLA-B\*15:01HLA-B\*15:01HLA-B\*35:01HLA-B\*35:01HLA-B\*40:01HLA-B\*40:01HLA-B\*44:02HLA-B\*44:02HLA-B\*44:03HLA-B\*44:03HLA-B\*51:01HLA-B\*51:01HLA-B\*53:01HLA-B\*53:01HLA-B\*57:01HLA-B\*57:01HLA-B\*58:01HLA-B\*58:01 | HLA-A\*01:01HLA-A\*02:01HLA-A\*02:06HLA-A\*03:01HLA-A\*11:01HLA-A\*23:01HLA-A\*24:02HLA-A\*25:01HLA-A\*26:01HLA-A\*29:02HLA-A\*30:01HLA-A\*30:02HLA-A\*31:01HLA-A\*32:01HLA-A\*68:01HLA-A\*68:02HLA-B\*07:02HLA-B\*08:01HLA-B\*14:02HLA-B\*15:01HLA-B\*15:02HLA-B\*18:01HLA-B\*27:05HLA-B\*35:01HLA-B\*35:03HLA-B\*38:01HLA-B\*39:01HLA-B\*40:01HLA-B\*40:02HLA-B\*44:02HLA-B\*44:03HLA-B\*46:01HLA-B\*48:01HLA-B\*51:01HLA-B\*53:01HLA-B\*57:01HLA-B\*58:01HLA-B\*58:02HLA-C\*03:03HLA-C\*04:01HLA-C\*05:01HLA-C\*06:02HLA-C\*07:01HLA-C\*07:02HLA-C\*08:02HLA-C\*12:03HLA-C\*14:02HLA-C\*15:02HLA-E\*01:01HLA-E\*01:03 |

**Supplementary Table S2: List of most frequent MHC-class II alleles**

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| --- | --- |
| **Allele****(NetNHCIIpan-4.1)** | **Allele** **(SMM align method)** |
| HLA-DRB1\*04:05HLA-DRB1\*07:01HLA-DRB1\*08:02HLA-DRB1\*09:01HLA-DRB1\*11:01HLA-DRB1\*12:01HLA-DRB1\*13:02HLA-DRB1\*15:01HLA-DRB3\*01:01HLA-DRB3\*02:02HLA-DRB4\*01:01HLA-DRB5\*01:01HLA-DQA1\*05:01/DQB1\*02:01HLA-DQA1\*05:01/DQB1\*03:01HLA-DQA1\*03:01/DQB1\*03:02HLA-DQA1\*04:01/DQB1\*04:02HLA-DQA1\*01:01/DQB1\*05:01HLA-DQA1\*01:02/DQB1\*06:02HLA-DPA1\*02:01/DPB1\*01:01HLA-DPA1\*01:03/DPB1\*02:01HLA-DPA1\*01:03/DPB1\*04:01HLA-DPA1\*03:01/DPB1\*04:02HLA-DPA1\*02:01/DPB1\*05:01HLA-DPA1\*02:01/DPB1\*14:01 | DRB1\*01:01DRB1\*03:01DRB1\*04:01DRB1\*04:04DRB1\*04:05DRB1\*07:01DRB1\*08:02DRB1\*09:01DRB1\*11:01DRB1\*12:01DRB1\*13:02DRB1\*15:01DRB3\*01:01DRB4\*01:01DRB5\*01:01 |