**Table S1. Mann-Whitney U analysis between recipients with DSA and stable renal function**

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| Test Statisticsa |
| 　 | CXCR5 | TFH | TFR | RATIO | TREG | PD1CXCR5 | PD1ONCXCR5 | ICOSCXCR5 | ICOSONCXCR5 | STAT3CXCR5 | STAT3ONCXCR5 | STAT4CXCR5 | STAT4ONCXCR5 | STAT5CXCR5 | STAT5ONCXCR5 | IL21CXCR5 | IL21ONCXCR5 | CXCL13 | TGFB |
| Mann-Whitney U | 62.0 | 63.5 | 14.5 | 22.0 | 60.0 | 82.0 | 60.0 | 23.0 | 31.5 | 45.5 | 72.0 | 79.5 | 63.0 | 52.0 | 56.0 | 79.0 | 58.0 | 62.5 | 73.0 |
| Wilcoxon W | 77.0 | 78.5 | 29.5 | 583.0 | 75.0 | 643.0 | 621.0 | 38.0 | 46.5 | 60.5 | 87.0 | 640.5 | 624.0 | 67.0 | 71.0 | 640.0 | 619.0 | 558.5 | 88.0 |
| Z | -.885 | -.821 | -2.937 | -2.613 | -.972 | -.022 | -.972 | -2.570 | -2.203 | -1.598 | -.453 | -.130 | -.842 | -1.317 | -1.144 | -.151 | -1.058 | -.687 | -.311 |
| Asymp. Sig. (2-tailed) | .376 | .412 | **.003** | **.009** | .331 | .983 | .331 | **.010** | **.028** | .110 | .650 | .897 | .400 | .188 | .252 | .880 | .290 | .492 | .756 |
| Exact Sig. [2\*(1-tailed Sig.)] | .399b | .424b | **.001b** | **.006b** | .353b | 1.000b | .353b | **.008b** | **.024b** | .112b | .675b | .900b | .424b | .202b | .271b | .900b | .310b | .504b | .780b |
| a. Grouping Variable: DSA vs Stable |
| b. Not corrected for ties. |

P<0.05 were shown in bold