**Table S3. Mann-Whitney U analysis between recipients with biopsy-proven rejection and non-rejection**

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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 | 55.5 | 57.0 | 37.0 | 29.0 | 60.0 | 63.0 | 46.0 | 31.5 | 21.0 | 64.5 | 46.0 | 63.0 | 62.5 | 48.5 | 56.0 | 62.5 | 58.0 | 15.0 | 16.0 |
| Wilcoxon W | 110.5 | 112.0 | 128.0 | 84.0 | 151.0 | 154.0 | 137.0 | 122.5 | 112.0 | 155.5 | 137.0 | 118.0 | 153.5 | 103.5 | 111.0 | 153.5 | 149.0 | 21.0 | 22.0 |
| Z | -.589 | -.496 | -1.737 | -2.233 | -.310 | -.124 | -1.179 | -2.079 | -2.729 | -.031 | -1.178 | -.124 | -.155 | -1.024 | -.558 | -.155 | -.434 | -.433 | -.471 |
| Asymp. Sig. (2-tailed) | .556 | .620 | .082 | **.026** | .756 | .901 | .239 | **.038** | **.006** | .975 | .239 | .901 | .877 | .306 | .577 | .877 | .664 | .665 | .638 |
| Exact Sig. [2\*(1-tailed Sig.)] | .563b | .648b | .088b | **.026b** | .784b | .927b | .257b | **.036b** | **.005b** | .976b | .257b | .927b | .879b | .313b | .605b | .879b | .693b | .734b | .704b |
| a. Grouping Variable: BPR VS Non-rejection |

P<0.05 were shown in bold