**Supplementary File 2.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Left-right forelimbs** | | **Left-right hindlimbs** | |
| **Time point comparisons** | | | **p value** | **U2** | **p value** | **U2** |
| Baseline | vs | PD1 | 0.1<p<0.2 | 0.1199 | p>0.5 | -0.0759 |
|  |  | Dox1On-D3 | **0.01<p<0.02** | 0.2654 | 0.1<p<0.2 | 0.1298 |
|  |  | Dox1On-D5 | **0.02<p<0.05** | 0.2073 | **0.02<p<0.05** | 0.2262 |
|  |  | Dox1On-D8 | **0.001<p<0.002** | 0.3615 | **0.02<p<0.05** | 0.1906 |
|  |  | DoxOff | p>0.5 | 0.0387 | p>0.5 | -0.1514 |
|  |  | Sugar control | p>0.5 | 0.0145 | p>0.5 | 0.0259 |
|  |  |  |  |  |  |  |
| Pre-Dox2 | vs | Dox2On-D3 | 0.1<p<0.2 | 0.1400 | **p<0.001** | 0.4337 |
|  |  | Dox2On-D5 | 0.1<p<0.2 | 0.1462 | **0.01<p<0.02** | 0.2399 |
|  |  |  |  |  |  |  |
| All Control | vs | All Dox | **p<0.001** | 0.672 | **p<0.001** | 1.4458 |
|  |  |  |  |  |  |  |