

## Supplementary File No.4: Tear Heparanase activity in C57BL/6 mice

### A: Non-infected Eye vs Infected Eye

| Days post infection | Non-infected Eye<br>(Nanogram HS<br>removed min <sup>-1</sup> ) | Infected Eye<br>(Nanogram HS<br>removed min <sup>-1</sup> ) | p-value |
|---------------------|---|---|---------|
| Day 0               | 0.70  | 0.66  | 0.99    |
| Day 1               | 2.87  | 5.16  | 0.002   |
| Day 2               | 4.46  | 5.22  | 0.252   |
| Day 4               | 5.01  | 5.28  | 0.712   |
| Day 6               | 4.27  | 5.24  | 0.099   |
| Day 8               | 3.82  | 5.73  | 0.0006  |
| Day 10              | 3.67  | 5.73  | 0.0343  |

### B: Contralateral Eye vs Infected Eye

| Days post infection | Contralateral Eye<br>(Nanogram HS<br>removed min <sup>-1</sup> ) | Infected Eye<br>(Nanogram HS<br>removed min <sup>-1</sup> ) | p-value |
|---------------------|--|---|---------|
| Day 0               | 0.56   | 0.66  | 0.282   |
| Day 1               | 4.23   | 5.16  | 0.087   |
| Day 2               | 5.57   | 5.22  | 0.914   |
| Day 4               | 5.49   | 5.28  | 0.981   |
| Day 6               | 5.76   | 5.24  | 0.444   |
| Day 8               | 5.41   | 5.73  | 0.36    |
| Day 10              | 5.87   | 5.73  | 0.997   |

### C: Non-infected Eye vs Contralateral Eye

| Days post infection | Non-infected Eye<br>(Nanogram HS<br>removed min <sup>-1</sup> ) | Contralateral Eye<br>(Nanogram HS<br>removed min <sup>-1</sup> ) | p-value |
|---------------------|---|--|---------|
| Day 0               | 0.70  | 0.56   | 0.626   |
| Day 1               | 2.87  | 4.22   | 0.071   |
| Day 2               | 4.46  | 5.56   | 0.116   |
| Day 4               | 5.01  | 5.49   | 0.656   |
| Day 6               | 4.27  | 5.76   | 0.013   |
| Day 8               | 3.82  | 5.41   | 0.002   |
| Day 10              | 3.67  | 5.87   | 0.014   |