**Additional file 3：Table S2.** Number of paired and unpaired female worms on specific days after host infection. In order to establish *Schistosoma japonicum* infection model, each Kunming mouse was infected with around 70 cercariae. After 14, 15 16, 17 and 18 days infection, mice were killed. The worms were perfused through the hepatic portal vein using standard perfusion techniques. Finally, the number of females that male-female pairing and male-female unpairing were counted separately.

|  |  |
| --- | --- |
| Number of Female worms | Days Postinfection |
| 15 | 16 | 17 | 18 |
| Paired | 0±0 | 1±1 | 6±1 | 16±2 |
| Unpaired | 13±3 | 15±1 | 15±1 | 9±1 |
| Total | 13±3 | 16±1 | 21±2 | 25±3 |