

**Table S2.** Total number of filtered reads, percentage of reads retained and total number of bases produced per library and per species.

| Libraries        | Rep.             | <i>A. fraterculus</i> |            |       |                |       |      | <i>A. obliqua</i> |            |       |                |       |      |    |
|------------------|------------------|-----------------------|------------|-------|----------------|-------|------|-------------------|------------|-------|----------------|-------|------|----|
|                  |                  | Reads                 | %          | Bases | %              | PE1*  | PE2* | Reads             | %          | Bases | %              | PE1*  | PE2* |    |
| Female           | Virgin           | A                     | 5,652,273  | 86.95 | 1,086,767,944  | 83.59 | 96   | 96                | 6,684,039  | 89.15 | 1,278,769,665  | 85.28 | 95   | 95 |
|                  |                  | B                     | 6,280,265  | 92.05 | 1,205,934,440  | 88.37 | 95   | 96                | 6,171,699  | 89.55 | 1,178,119,819  | 85.47 | 95   | 95 |
|                  | Post mating      | A                     | 6,186,816  | 86.12 | 1,173,833,135  | 81.70 | 97   | 92                | 7,520,056  | 90.22 | 1,436,357,133  | 86.16 | 95   | 95 |
|                  |                  | B                     | 8,519,269  | 93.11 | 1,647,889,520  | 90.05 | 96   | 96                | 6,066,139  | 90.39 | 1,152,296,056  | 85.85 | 94   | 95 |
|                  | Post oviposition | A                     | 5,492,619  | 84.08 | 1,034,443,269  | 79.18 | 97   | 91                | 7,345,410  | 89.48 | 1,406,454,916  | 85.66 | 95   | 95 |
|                  |                  | B                     | 8,773,354  | 93.13 | 1,697,983,441  | 90.12 | 96   | 96                | 7,811,619  | 90.31 | 1,492,531,036  | 86.27 | 95   | 95 |
| Male             | Virgin           | A                     | 7,241,354  | 93.59 | 1,401,642,013  | 90.58 | 96   | 96                | 5,661,286  | 91.37 | 1,090,347,302  | 87.99 | 96   | 96 |
|                  |                  | B                     | 8,021,534  | 92.37 | 1,548,755,751  | 89.17 | 96   | 96                | 6,422,330  | 91.46 | 1,236,636,692  | 88.06 | 96   | 96 |
|                  | Post mating      | A                     | 9,663,362  | 85.02 | 1,827,937,120  | 80.42 | 97   | 92                | 7,004,874  | 89.33 | 1,340,493,523  | 85.48 | 95   | 95 |
|                  |                  | B                     | 7,806,393  | 93.05 | 1,510,592,958  | 90.03 | 96   | 96                | 6,168,962  | 90.60 | 1,186,715,711  | 87.15 | 96   | 96 |
| Total by species |                  |                       | 73,637,239 |       | 14,135,779,591 |       |      |                   | 66,856,414 |       | 12,798,721,853 |       |      |    |

\* Average size by sequence reading of paired-end (PE).

