**SUPPLEMENTARY INFORMATION**

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The influence of host dispersal on the gene flow and genetic diversity of generalist and specialist ectoparasites

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**Table S1:** Localities of the populations sampled for each species together with the distances. Log transformed distances and global $F_{st}$ values (population differentiation estimates). Locality names correspond to names as presented in each of the sources (given in parenthesis following each species name).

| Species                | Kilometres | Log Distance | $F_{st}$ |
|------------------------|------------|--------------|----------|
| *Amblyomma hebraeum*   |            |              |          |
| (Cangi et al. 2013)    |            |              |          |
| Vosloonek to Mahlakwe  | 328        | 2.516        | 0.15     |
| Strydpoort to Vosloonek| 510        | 2.708        | 0.07     |
| Spring valley to Strydpoort | 543   | 2.735        | 0.33     |
| Strydpoort to Mahlakwe | 630        | 2.799        | 0.33     |
| Spring valley to Vosloonek | 880   | 2.944        | 0.17     |
| *Hyalomma rufipes*     |            |              |          |
| (Cangi et al. 2013)    |            |              |          |
| Massangena to Chivavane| 370        | 2.568        | 0.00     |
| Changara to Massangena | 465        | 2.667        | 0.23     |
| Mossuril to Changara   | 780        | 2.892        | 0.10     |
| Mossuril to Massangena | 1091       | 3.038        | 0.49     |
| *Hyalomma truncatum*   |            |              |          |
| (Sands et al. 2017)    |            |              |          |
| Upington to Kuruman    | 244        | 2.387        | 0.26     |
| Upington to Bloemfontein| 485      | 2.686        | 0.06     |
| Mariental to Upington  | 526        | 2.721        | 0.50     |
| Skukuza to Kuruman     | 859        | 2.934        | 0.00     |
| Skukuza to Upington    | 1079       | 3.033        | 0.00     |
**Chiastopsylla rossi** (van der Mescht et al. 2015)

| Species                               | Kilometres | Log Distance | F<sub>st</sub> |
|---------------------------------------|------------|--------------|---------------|
| Springbok to Vanrhynsdorp             | 227        | 2.356        | 0.50          |
| Springbok to Sutherland               | 384        | 2.584        | 0.33          |
| Springbok to Beaufort West            | 528        | 2.723        | 0.54          |
| Springbok to Fort Beaufort            | 878        | 2.943        | 0.57          |
| Springbok to Garies                   | 96         | 1.982        | 0.31          |

**Listropsylla agrippinae** (van der Mescht et al. 2015)

| Species                               | Kilometres | Log Distance | F<sub>st</sub> |
|---------------------------------------|------------|--------------|---------------|
| Springbok to Vanrhynsdorp             | 227        | 2.356        | 0.12          |
| Springbok to Sutherland               | 384        | 2.584        | 0.65          |
| Springbok to Beaufort West            | 528        | 2.723        | 0.52          |
| Springbok to Fort Beaufort            | 878        | 2.943        | 0.59          |
| Springbok to Garies                   | 96         | 1.982        | 0.18          |

**Laelaps muricola** (Matthee et al. 2018)

| Species                               | Kilometres | Log Distance | F<sub>st</sub> |
|---------------------------------------|------------|--------------|---------------|
| Kaalplaas to Rietvlei                 | 136        | 2.133        | 0.33          |
| Three Sisters to Rooipoort            | 375        | 2.574        | 0.00          |
| Three Sisters to East London          | 380        | 2.580        | 0.21          |
| Kaalplaas to Three Sisters            | 729        | 2.863        | 0.93          |
| Three Sisters to Rietvlei             | 824        | 2.915        | 0.10          |

**Laelaps giganteus** (Engelbrecht et al. 2016)

| Species                               | Kilometres | Log Distance | F<sub>st</sub> |
|---------------------------------------|------------|--------------|---------------|
| Dronfield to Rooipoort                | 50         | 1.699        | 0.60          |
| Windhoek to Keetmanshoop              | 443        | 2.646        | 0.68          |
| Rooipoort to Keetmanshoop             | 456        | 2.659        | 0.94          |
| Windhoek to Dronfield                 | 1027       | 3.012        | 0.83          |
| Rooipoort to Windhoek                 | 982        | 2.992        | 0.76          |

**Polyplax arvicanthis** (du Toit et al. 2013)

| Species                               | Kilometres | Log Distance | F<sub>st</sub> |
|---------------------------------------|------------|--------------|---------------|
| Groblershoop to Rooipoort             | 216        | 2.334        | 0.71          |
| Windhoek to Keetmanshoop              | 443        | 2.646        | 0.31          |
| Rooipoort to Keetmanshoop             | 456        | 2.659        | 0.69          |
| Windhoek to Groblershoop              | 854        | 2.931        | 0.71          |
| Rooipoort to Windhoek                 | 982        | 2.992        | 0.85          |
**Polyplax praomydis**  
(Bothma et al. in review)

|                | Kilometres | Log Distance | $F_{st}$ |
|----------------|------------|--------------|----------|
| De Doorns to Loeriesfontein | 290        | 2.462        | 0.93     |
| Loeriesfontein to Goegap      | 175        | 2.243        | 0.87     |
| Bloemfontein to De Doorns     | 790        | 2.898        | 1.00     |
| Bloemfontein to Elandskuil    | 233        | 2.367        | 0.32     |
| Bloemfontein to Loeriesfontein| 666        | 2.823        | 0.69     |

**Hoplopleura pattersoni**  
(Bothma et al. in review)

|                | Kilometres | Log Distance | $F_{st}$ |
|----------------|------------|--------------|----------|
| Mogalakwena to Marken | 106        | 2.025        | 0.44     |
| Marken to Alldays    | 130        | 2.114        | 0.81     |
| Dinokeng to Mogalakwena | 311        | 2.493        | 0.86     |
| Postmasburg to Dinokeng | 644        | 2.809        | 0.96     |
| Postmasburg to Alldays | 861        | 2.935        | 0.95     |